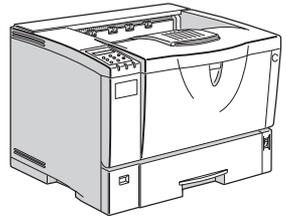


## Operating Instructions Setup Guide



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

## Introduction

This manual contains detailed instructions and notes on the operation and use of this machine. For your safety and benefit, read this manual carefully before using the machine. Keep this manual in a handy place for quick reference.

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

## Power Source

220 - 240 V, 50/60 Hz, 4.5 A or more

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

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

## Operator Safety:

This machine is considered a class 1 laser device, safe for office/EDP use. The machine contains 5 milliwatt, 760 - 800 nanometer wavelength, AlGaAs Laser Diode. Direct (or indirect reflected) eye contact with the laser beam might cause serious eye damage. Safety precautions and interlock mechanisms have been designed to prevent any possible laser beam exposure to the operator.

The following label is attached behind the front cover, left side, front facing.



## Laser Safety:

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

## Important

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.

## Caution:

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

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

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

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

Do not copy or print any item for which reproduction is prohibited by law.

Copying or printing the following items is generally prohibited by local law:

bank notes, revenue stamps, bonds, stock certificates, bank drafts, checks, passports, driver's licenses.

The preceding list is meant as a guide only and is not inclusive. We assume no responsibility for its completeness or accuracy. If you have any questions concerning the legality of copying or printing certain items, consult with your legal advisor.

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

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## 1. Getting Started

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  - Microsoft® Windows® 2000 Server
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  - Microsoft® Windows® XP Professional
  - Microsoft® Windows® XP Home Edition
  - Microsoft® Windows® XP Media Center Edition
  - Microsoft® Windows® XP Tablet PC Edition
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  - Microsoft® Windows Vista® Home Basic
  - Microsoft® Windows Vista® Enterprise
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  - Microsoft® Windows Server® 2003 Standard Edition
  - Microsoft® Windows Server® 2003 Enterprise Edition
  - Microsoft® Windows Server® 2003 Web Edition
  - Microsoft® Windows Server® 2003 Datacenter Edition

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**Notes:**

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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.

# Safety Information

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

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## Safety During Operation

---

In this manual, the following important symbols are used:

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

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

---

### **⚠ WARNING:**

---

- **Connect the power cord directly into a wall outlet and never use an extension cord.**
- **Disconnect the power plug (by pulling the plug, not the cable) if the power cable or plug becomes frayed or otherwise damaged.**
- **To avoid hazardous electric shock or laser radiation exposure, do not remove any covers or screws other than those specified in this manual.**
- **Turn off the power and disconnect the power plug (by pulling the plug, not the cable) if any of the following occurs:**
  - **You spill something into the machine.**
  - **You suspect that your machine needs service or repair.**
  - **The external housing of your machine has been damaged.**
- **Do not incinerate spilled toner or used toner. Toner dust might ignite when exposed to an open flame.**
- **Disposal can take place at our authorized dealer.**
- **Dispose of the used toner cartridge in accordance with the local regulations.**

---

### **⚠ CAUTION:**

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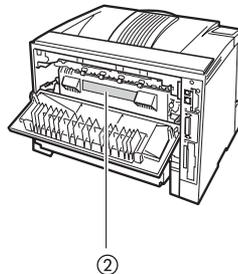
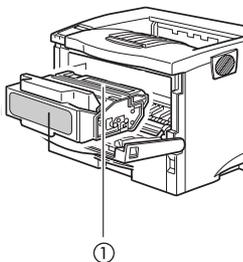
- **Protect the machine from dampness or wet weather, such as rain and snow.**
- **Unplug the power cord from the wall outlet before you move the machine. While moving the machine, you should take care that the power cord will not be damaged under the machine. Unplug the power cord from the wall outlet before you move the machine. While moving the machine, you should take care that the power cord will not be damaged under the machine.**

**⚠ CAUTION:**

- When you disconnect the power plug from the wall outlet, always pull the plug (not the cable).
- Do not allow paper clips, staples, or other small metallic objects to fall inside the machine.
- Keep toner (used or unused) and toner cartridge out of the reach of children.
- For environmental reasons, do not dispose of the machine or expended supply waste at household waste collection points. Disposal can take place at an authorized dealer.
- The inside of the machine could be very hot. Do not touch the parts with a label indicating "⚠" (means hot surface). Touching "⚠" (means hot surface) could result in a burn.
- Our products are engineered to meet high standards of quality and functionality, and we recommend that you use only the expendable supplies available at an authorized dealer.

**Positions of Labels and Hallmarks for ⚠WARNING and ⚠CAUTION**

This machine has labels for ⚠WARNING and ⚠CAUTION at the positions shown below. For safety, please follow the instructions and handle the machine as indicated.



ZKXGH250E

①

 <b>WARNING</b> <b>ATTENTION</b> <b>WARNING</b> <b>AVVISO</b> <b>AVISO</b> <b>ADVERTENCIA</b> 警告	 ● Do not incinerate toner or toner containers. Toner dust may cause flashback when exposed to an open flame. ● Ne pas incinérer les cartouches ni les boîtes de la poudre de toner peut provoquer un retour de flamme. ● Verbrennen Sie keinen Toner oder Tonerkartusche, explodieren. ● Non gettare il toner o i contenitori del toner sul fuoco. La polvere del toner si può incendiare dalla fiamma. ● No incinerar el toner ni los contenedores de toner. El polvo de tóner puede inflamarse al ser expuesto al fuego. ● Não exponha o Toner ou a sua embalagem ao fogo. O pó de Toner poderá explodir quando exposto a chama viva. ● トナー又はトナーの入った容器を直接燃却炉等の火中に投入しないでください。火傷をするおそれがあります。
---	--

②

 <b>CAUTION</b> <b>ACHTUNG</b> <b>ATTENTION</b> <b>高温注意</b>	 ●High temperature. ●Hohe Temperatur. ●Temperature leve.	 ●Alta temperatura. ●Temperatura elevada. ●高温になっています。
---	---	--

# Energy Saving Function

- **Energy Saver mode**

This printer automatically lowers its power consumption 30 minutes after the last operation has been completed. To exit Energy Saver mode, press any key on the control panel. To change the setting of the Energy Saver mode, see “*System Menu*” in the Printer Reference on the CD-ROM labeled “Printer Drivers and Utilities”.

- ❖ **Specifications**

Energy Saver mode	Power Consumption	With Options: 10.5 W or less Printer Only: 6.5 W
	Default Time	30 minutes

# Manuals for This Printer

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## Manuals for This Printer

---

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

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

❖ **Quick Installation Guide**

Describes how to install the printer.

❖ **Setup Guide (this manual)**

Provides information about setting up the printer and its options. This manual is provided as a printed manual, and also on the CD-ROM labeled "Operating Instructions".

❖ **Printer Reference**

Provides information about using the printer and its options. This manual is provided on the CD-ROM labeled "Operating Instructions".

❖ **Network Printing Guide**

Provides information about setting up and using the printer in a network environment. This manual is provided on the CD-ROM labeled "Operating Instructions".

❖ **PostScript 3 Operating Instructions Supplement**

Describes the menus and features for the PostScript 3 printer driver. This manual is provided on the CD-ROM labeled "Operating Instructions".

 **Note**

- There are three CD-ROMs that come with this printer. "Operating Instructions", "Printer Drivers and Utilities", and "Document Management Utility".
- Concerning UNIX information, please visit our Web site or consult your authorized reseller.

# How to Read This Manual

---

## Symbols

---

In this manual, the following symbols are used:

### **WARNING:**

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

### **CAUTION:**

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

\* The statements above are notes for your safety.

### **Important**

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

### **Preparation**

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

### **Note**

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

### **Limitation**

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

### **Reference**

This symbol indicates a reference.

[   ]

Keys that appear on the machine's panel display.

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

[   ]

Keys built into the machine's control panel.

Keys on the computer's keyboard.

# 1. Getting Started

## Printer Drivers for This Printer

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

Printer Language	PCL 6	PCL 5e	RPCS	PostScript 3
<b>Operating system</b>				
Windows 2000/XP *1	√	√	√	√*5
Windows Server 2003 *2	√	√	√	√*5
Windows Vista *3	√	√	√	√*5
Mac OS *4				√*5

\*1 Windows 2000 professional  
Windows 2000 Server  
Windows 2000 Advanced Server  
Windows XP Professional  
Windows XP Home Edition  
Windows XP Media Center Edition  
Windows XP Tablet PC Edition

\*2 Windows Server 2003 Standard Edition  
Windows Server 2003 Enterprise Edition  
Windows Server 2003 Web Edition  
Windows Server 2003 Datacenter Edition

\*3 Windows Vista Ultimate  
Windows Vista Business  
Windows Vista Home Premium  
Windows Vista Home Basic  
Windows Vista Enterprise

\*4 Requires Mac OS 8.6 or later / Mac OS X 10.1 or later.

\*5 The Adobe PostScript printer drivers and PostScript Printer Description (PPD) files are included on the CD-ROM labeled "Operating Instructions".

### ❖ PCL printer drivers

Printer drivers allow the computer to communicate with the printer via a printer language. Two kinds of PCL printer drivers, PCL 6 and PCL 5e, are provided with this printer. We recommend PCL 6 as your first choice.

#### Note

Some of your applications might require the installation of the PCL 5e printer driver. In this case, you can install PCL 5e in addition to PCL 6. See p.36 "Installing the PCL 6/5e Printer Driver"

### ❖ RPCS printer driver

This printer driver allows the computer to communicate with the printer via a printer language. The preset type user interface is provided in addition to the conventional one.

See p.39 "Installing the RPCS Printer Driver"

❖ **Adobe PostScript Printer Drivers and PPD files**

The Adobe Postscript printer drivers and PPD files are included on the CD-ROM that comes with this printer. 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. See p.41 "Installing the PostScript Printer Driver"

# Software and Utilities Included on the CD-ROM

There are three CD-ROMs that come with this printer. These are labeled "Operating Instructions", "Printer Drivers and Utilities" and "Document Management Utility". The following are included on the three separate CD-ROMs.

## ❖ **Font Manager**

For installing new screen fonts, or organizing and managing fonts already in the system. For details about Font Manager, see the manual on the CD-ROM labeled "Printer Drivers and Utilities".

## ❖ **SmartDeviceMonitor for Admin**

For the system administrator to manage network printers.

## ❖ **DeskTopBinder - SmartDeviceMonitor for Client**

For users to manage their network print status.

## ❖ **Acrobat Reader**

A utility that allows you to read PDF (Portable Document Format). This is included on the CD-ROM labeled "Operating Instructions".

### **Note**

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

---

## Viewing the Contents of the CD-ROM

---

Follow the steps to view the contents of the CD-ROM.

### **1** Insert the CD-ROM into the CD-ROM drive.

Auto Run will start the installer.

### **2** Click **[Browse This CD-ROM]**.

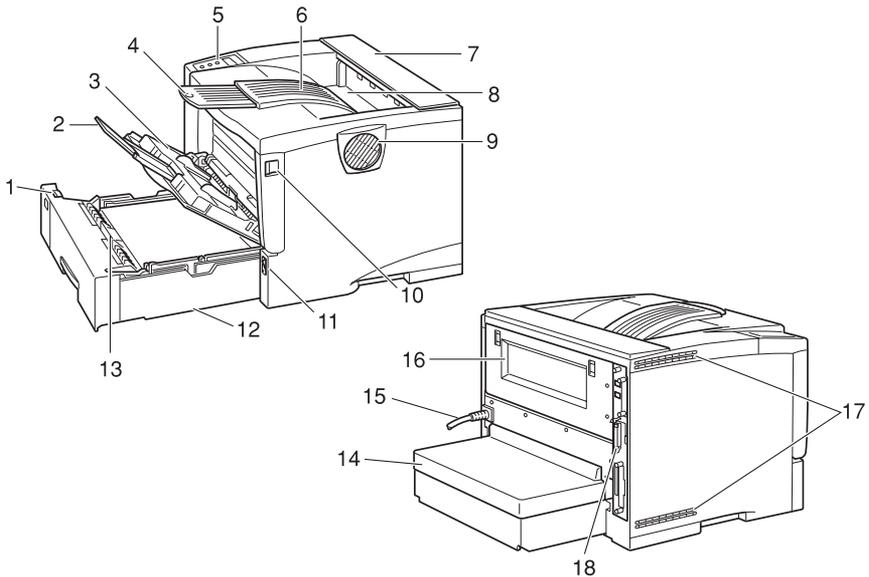
Explorer starts and displays the contents of the CD-ROM.

# Guide to This Printer

## 1

### Mainframe

#### ❖ Exterior



ZKGH141E

#### 1. Paper Size Dial

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

#### 2. Bypass Tray Extension

Pull out this extension to load paper into the Bypass Tray when its length is longer than A4  $\square$  or  $8\frac{1}{2}'' \times 11'' \square$ .

#### 3. Bypass Tray

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

Up to 100 sheets of plain paper (80 g/m<sup>2</sup>, 20 lb. bond) can be loaded.

See "Paper and Other Media Supported by this Printer" and "Loading Paper in the Bypass Tray" in the Printer Reference on the CD-ROM labeled "Operating Instructions".

#### 4. Output Tray Extension

Pull out this extension when printing on long paper.

## 5. Control Panel

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

## 6. Output Tray (Standard Tray)

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

## 7. Upper Cover

## 8. Paper Exit Cover

Open this cover to remove misfed paper.

## 9. Ventilator

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

### Important

- Do not block or obstruct the ventilator. A malfunction may occur due to overheating.

## 10. Front Cover Release Button

Use this button to open the front cover.

## 11. Power Switch

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

## 12. Paper Tray (Tray 1)

Loads up to 500 sheets of plain paper (80 g/m<sup>2</sup>, 20 lb. bond) into this tray for printing.

See *"Paper and Other Media Supported by this Printer"* in the Printer Reference on the CD-ROM labeled "Operating Instructions".

### Note

- Paper Tray is displayed "Tray 1" on the panel display.

## 13. Friction Pad

This is required to feed in paper one sheet at a time. Clean the friction pad when more than one sheet of paper is fed into the printer. Also, replace the friction pad when the message, "Replace Maintenance Kit", appears.

## 14. Paper Tray Cover

Attach it when pulling out the tray extension of the paper tray.

## 15. Power Cord

Plug this cord into a wall outlet.

## 16. Rear Cover

Remove to install the optional Duplex Unit or to replace the Fusing Unit.

## 17. Ventilators

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

### Important

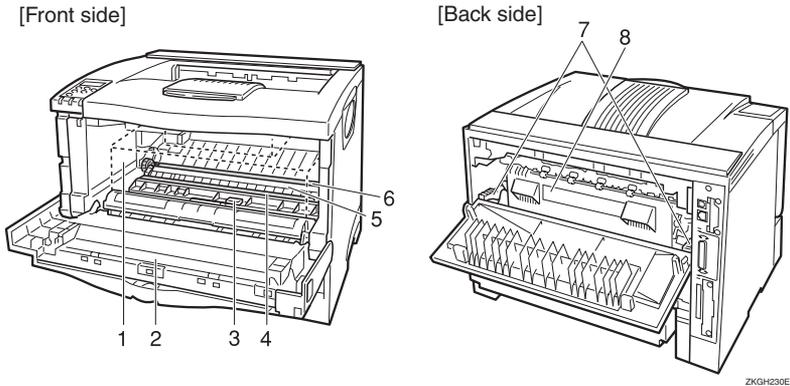
- Do not block or obstruct the ventilators. A malfunction may occur due to overheating.

## 18. Controller Board

Slide it out to install some options. Attach the interface cable.

❖ Interior

1



**1. Toner Cartridge**

Includes toner and a photo conductor unit.

When "Replace Toner Cartridge" appears on the panel display, replace this unit.

**2. Front Cover**

Open this cover when accessing the inside of the printer.

**3. Guide Board**

Open this board to remove misfed paper.

**4. Registration Roller**

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

See "Cleaning the Registration Roller" in the Printer Reference on the CD-ROM labeled "Operating Instructions".

**5. Transfer Roller Cover**

Open this cover when replacing a transfer roller.

**6. Transfer Roller**

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

**7. Fusing Unit Lock Levers**

Lift these levers when replacing the fusing unit.

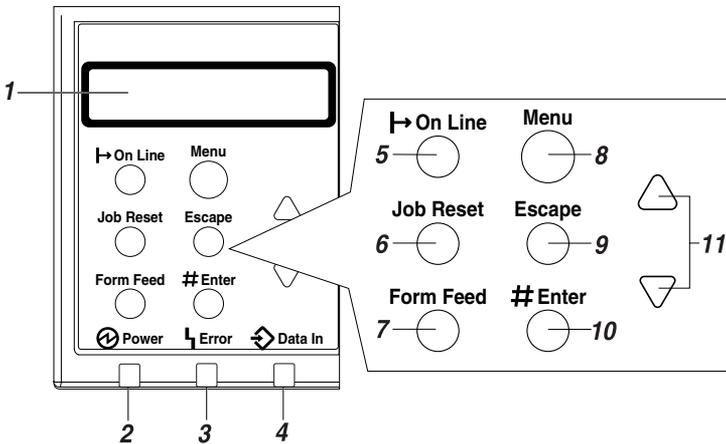
**8. Fusing Unit**

Fuses the image onto paper.

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

ZKGH230E

## Control Panel



ZKGS100E

### 1. Panel display

Shows the current status of the printer and error messages.

See "Error & Status Messages on the Control Panel" in the Printer Reference on the CD-ROM labeled "Operating Instructions".

### 2. Power indicator

Is on while the printer power is on.

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

### 3. Error indicator

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

See "Error & Status Messages on the Control Panel" in the Printer Reference on the CD-ROM labeled "Operating Instructions".

### 4. Data In indicator

Blinks while the printer is receiving data from a computer.

Is on if there is data to be printed.

### 5. [On Line] key

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

### 6. [Job Reset] key

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

See "Canceling a Print job" in the Printer Reference on the CD-ROM labeled "Operating Instructions".

### 7. [Form Feed] key

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

### Note

This does not work if the printer is online.

### 8. [Menu] key

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

See "Making Printer Settings with the Control Panel" in the Printer Reference on the CD-ROM labeled "Operating Instructions".

**9. [Escape] key**

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

**10. [# Enter] key**

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

Press this key to clear some errors.

See "*Troubleshooting*" in the Printer Reference on the CD-ROM labeled "Operating Instructions".

**11. [▲][▼] keys**

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

# 2. Installing Options

## **CAUTION:**

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

## **Important**

- The voltage rating of the connector for options is 24 V DC or less.
- Turn the power off before removing the Paper Feed Unit Type 600. Removing any of these units with the power on may cause the printer to fail.

## **Option List**

- Paper Feed Unit Type 600
- Envelope Feeder Type 2600
- AD410 (Duplex Unit)
- Memory Unit Type C (SDRAM Module)
- Hard Disk Drive Type 2600

## **Note**

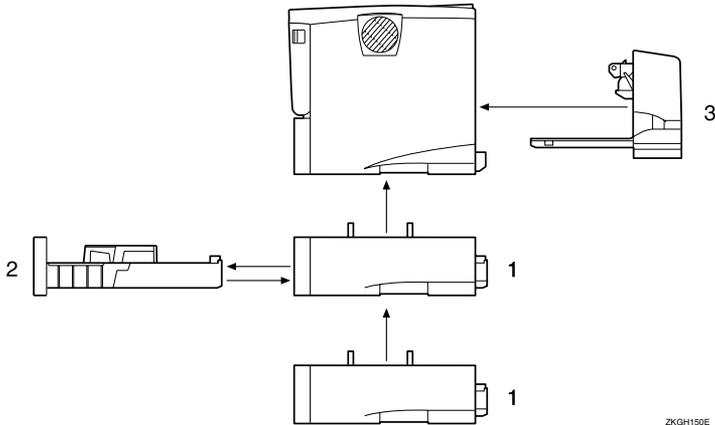
- A maximum of two Paper Feed Units can be attached to the printer at the same time.
- The installation of the Paper Feed Unit is necessary to attach the Envelope Feeder Unit.

# Available Options

The following options can be attached to the printer.

## ❖ Exterior

2



ZKGH150E

### 1. Paper Feed Unit Type 600 (Tray 2 or Tray 3)

You can load up to 500 sheets (60-105 g/m<sup>2</sup>, 16-28 lb.bond) of plain paper into the tray.

#### Note

- A maximum two Paper Feed Units Type 600 can be attached.
- Top-most optional Paper Feed Unit is displayed "Tray 2" and bottom-most is displayed "Tray 3" on the panel display.

### 2. Envelope Feeder Type 2600

You can load up to 60 envelopes (72-90 g/m<sup>2</sup>, 19-24 lb.bond) into the tray.

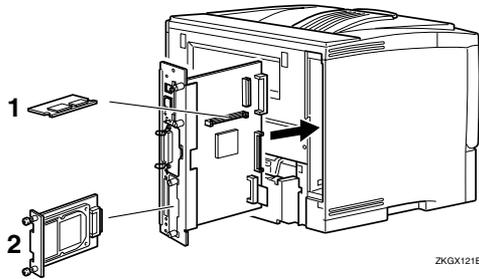
#### Note

- The Envelope Feeder is a tray that slides into the optional Paper Feed Unit. Without the optional Paper Feed Unit, the Envelope Feeder cannot be used.
- Your printer can accommodate two optional Paper Feed Units. The Envelope Feeder Unit can be used in "Tray 2". Neither the main unit's feed tray (Tray 1) nor Tray 3 can be used for this purpose.

### 3. AD410 (Duplex Unit)

You can print on both sides of paper. Install the Duplex Unit by removing the rear cover of the printer.

## ❖ Interior

**1. Memory Unit Type C (SDRAM Module)**

There are three types of Memory Unit: 64 MB, 128 MB and 256 MB. This enables memory to be expanded up to 320 MB when combined with the standard 64 MB Memory Unit.

**2. Hard Disk Drive Type 2600**

You can use the "Collate", the "Sample Print" and the "Locked Print" functions.

# Paper Feed Unit Type 600

## ⚠ CAUTION:

- The printer weighs about 20 kg (44.1 lbs.).
- When lifting the machine, use the inset grips on both sides. Otherwise the printer could break or cause injury if dropped.

## ❗ Important

- ❑ Do not slide more than one paper tray out at the same time. Having more than one full paper tray fully extended could cause the machine to topple.
- ❑ More than two Paper Feed Units Type 600 cannot be attached.
- ❑ Check the printer nameplate to confirm the model code.

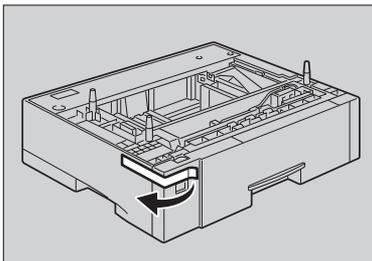
## 1 Check the contents of the box for the following items:

- Paper Feed Unit (including a paper tray)
- Installation Guide

## 2 Be sure to check the following points:

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

## 3 Remove the adhesive tape from the Paper Feed Unit.

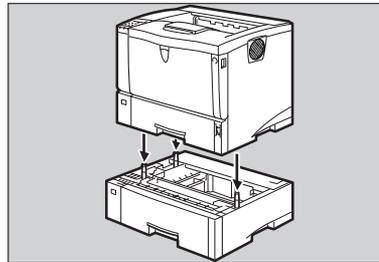


ZK GX390E

## 📌 Note

- ❑ If you attach two Paper Feed Units at the same time, stack them up in advance.

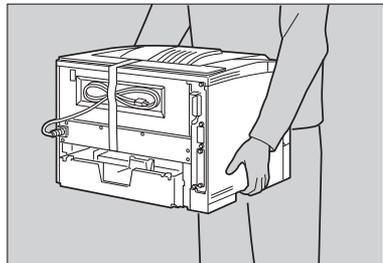
## 4 There are three pins on the top of the Paper Feed Unit that point straight up. On the bottom of the printer there are three holes. Align the holes over the pins, and then lower the printer gently onto the Paper Feed Unit.



ZK GX400E

## ⚠ CAUTION:

- When lifting the machine, use the inset grips on both sides. Otherwise the printer could break or cause injury if dropped.



ZK GH052E

## 5 Attach the interface cable to the printer.

**6 Plug the printer's power cord back into the wall outlet, and then turn on the power switch.**

 **Note**

- After installing the last option that you want, print the configuration page to confirm the installation. If the new device is listed in the column of configuration options, then it has been properly installed. For more information about printing the configuration page, see "*Printing the Configuration Page*" in the Printer Reference on the CD-ROM labeled "Operating Instructions".
- If the Paper feed unit is not installed properly, repeat the procedure from step 2. If you cannot install it properly even after reinstallation, contact your sales or service representative.

 **Reference**

For information about loading paper, see "*Loading Paper in the Optional Paper Tray*" in the Printer Reference on the CD-ROM labeled "Operating Instructions".

If the printing position is not correct, adjust the registration of the trays. For more information about adjusting the registration of the trays, see "Adjusting the Registration of the Trays" in the Printer Reference.

# Envelope Feeder Type 2600

## Note

- This unit is a tray that slides into the optional Paper Feed Unit. Without the optional Paper Feed Unit, this Envelope Feeder cannot be used.
- Your printer can accommodate two optional Paper Feed Units. The Envelope Feeder Unit can be used in "Tray 2". Neither the main unit's feed tray (Tray 1) nor Tray 3 can be used for this purpose.

## Important

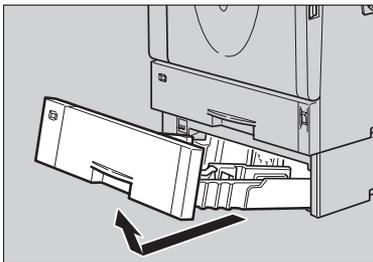
- Do not slide more than one paper tray out at the same time. Having more than one full paper tray fully extended could cause the machine to topple.

The following explanation uses the example of installing the Envelope Feeder Unit in "Tray 2".

### 1 Check the contents of the box for the following items:

- Envelope Feeder
- Installation Guide

### 2 Pull out the second paper tray (Tray 2) of the optional Paper Feed Unit until it stops. After that, lift it slightly, and then pull it out.



ZKGP330E

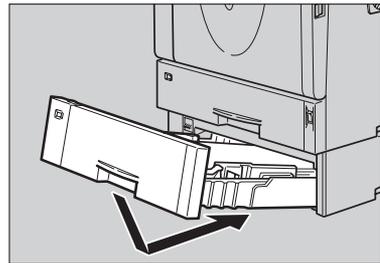
## Important

- The Envelope Feeder must be used in the top-most optional Paper Feed Unit (Tray 2).
- The tray of the top-most optional Paper Feed Unit is beneath the paper tray.

## Note

- Keep the paper tray with paper in a cool dark place.

### 3 Lift the front of the Envelope Feeder, and slide it carefully into the printer until it stops.



ZKGP340E

## Reference

For information about loading paper, see "Loading Envelopes" in the Printer Reference on the CD-ROM labeled "Operating Instructions".

# Memory Unit Type C (SDRAM Module)

## Important

- Before touching the Memory Unit, touch something metal to discharge any static electricity. Static electricity can damage the Memory Unit.
- Do not subject the Memory unit to physical shocks.

**1** Check the contents of the box for the following items:

- Memory Unit
- Installation Guide

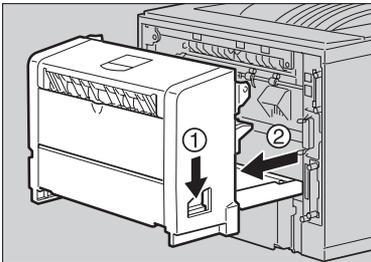
**2** Be sure to check the following points:

- The power switch is turned off.
- The interface cable is unplugged from the printer.

### Note

- If the Duplex Unit is not attached, go to step **4**.

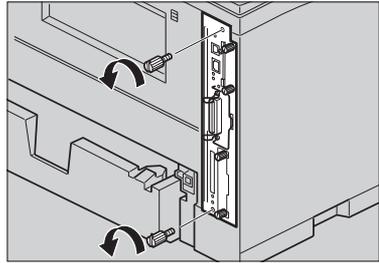
**3** If the Duplex Unit is attached, push down the lever on right side (①) and pull out the Duplex Unit until it stops (②).



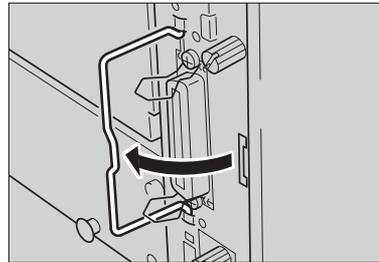
**4** Remove the two screws holding the controller board in place.

### Note

- Use a coin or similar object if the screws do not turn easily.
- The removed screws are required in step **7**.

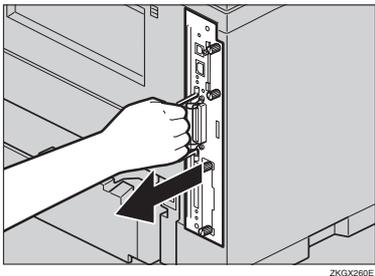


**5** Pull out the handle of the controller board.



2

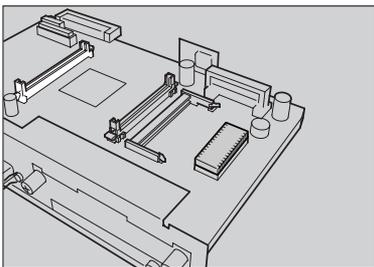
**6** Pull the handle and slide the controller board out.



ZKGX260E

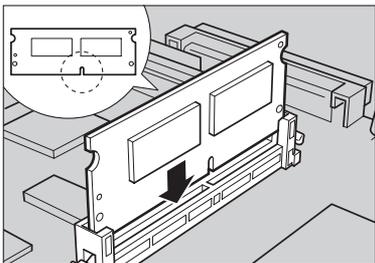
**7** Place the controller board on a flat surface.

**8** The Memory Unit is installed in the slot shown in the illustration below.



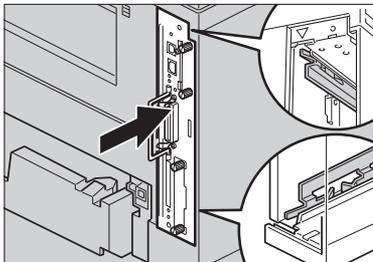
ZKGX021E

**9** Insert the Memory unit to the slot by placing the notch of the unit to the projection of the slot, and then push it down until it clicks.



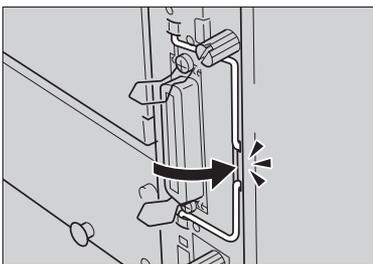
ZKGX130E

**10** Match the controller board to the top and bottom rail using the "▼" mark, and then slide it into the printer slowly until it stops.



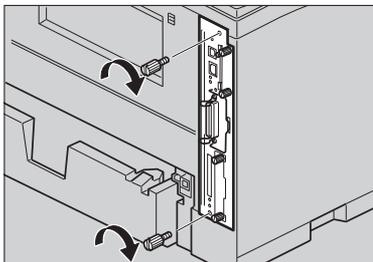
ZKGX250E

**11** Push the handle of the controller board until it clicks.



ZKGX380E

**12** Fasten the controller board to the printer with the two screws.

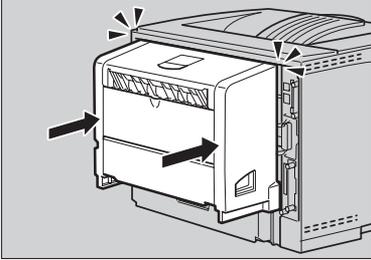


ZKGX270E

**Note**

□ If the Duplex Unit is not attached, go to step 14.

- 13** While aligning the power cord to the left side groove of the Duplex Unit, slide the Duplex Unit in until it is connected to the printer.



ZK0X240E

- 14** Attach the interface cable to the printer.

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

### **Important**

- ❑ If you use a Windows operating system, you should set up the Memory Unit with the printer driver to make the printer recognize the installation. For details, see p.33 "Installing the Printer Driver and Software".

### **Note**

- ❑ After installing the last option that you want, print the configuration page to confirm the installation. If the new device is listed in the column of configuration options, then it has been properly installed. For more information about printing the configuration page, see "Printing the Configuration Page" in the Printer Reference on the CD-ROM labeled "Operating Instructions".
- ❑ If the Memory Unit is properly, "Total Memory" will be the total size of the standard Memory Unit plus the expanded Memory Unit. The total values of Memory Units are as shown below.

Standard	Extended	Total
64 MB	64 MB	128 MB
	128 MB	192 MB
	256 MB	320 MB

- ❑ If the Memory unit is not installed properly, repeat the procedure from step **2**. If you cannot install it properly even after reinstallation, contact your sales or service representative.
- ❑ To remove the Memory Unit, press the button on the end of the slot.

# Hard Disk Drive Type 2600

## Important

- ❑ Before touching the Hard Disk Drive, touch something metal to discharge any static electricity. Static electricity can damage the Hard Disk Drive.

**1** Check the contents of the box for the following items:

- Hard Disk Drive
- Installation Guide

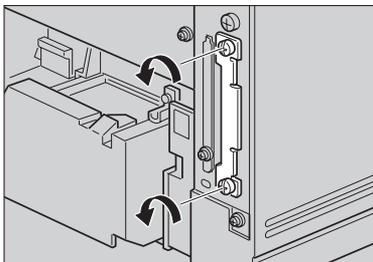
**2** Be sure to check the following points:

- The power switch is turned off.
- The interface cable is unplugged from the printer.

**3** Remove the two screws and the cover of the Hard Disk Drive mounting bracket.

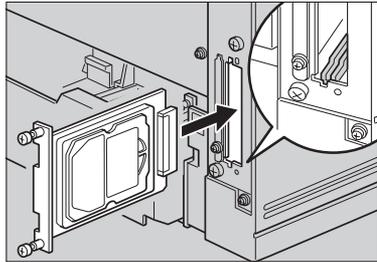
### Note

- ❑ Use a coin or similar object if the screws do not turn easily.
- ❑ The screws and cover are not used when installing the Hard Disk Drive.



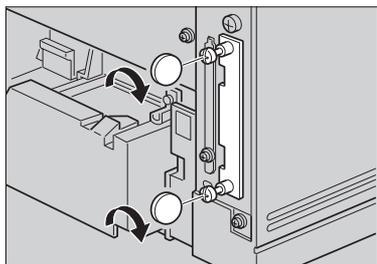
ZK GX350E

**4** Slowly insert the Hard Disk Drive while aligning it with the top and bottom rails in the printer until it stops.



ZK GX151E

**5** Fasten the two screws (using a coin, etc.) to fix the Hard Disk Drive.



ZK GX380E

**6** Attach the interface cable to the printer.

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

### Important

- If you use a Windows operating system, you should set up the Hard Disk Drive with the printer driver to make the printer recognize the installation. For details, see p.33 "Installing the Printer Driver and Software".

### Note

- After installing the last option that you want, print the configuration page to confirm the installation. If the new device is listed in the column of configuration options, then it has been properly installed. For more information about printing the configuration page, see "*Printing the Configuration Page*" in the Printer Reference on the CD-ROM labeled "Operating Instructions".
- If the Hard disk drive is not installed properly, repeat the procedure from step **2**. If you cannot install it properly even after reinstallation, contact your sales or service representative.

# AD410 (Duplex Unit)

## Important

- If you attach the Duplex Unit and the Paper Feed Unit, the Paper Feed Unit must be attached prior to attaching the Duplex Unit.
- Check the printer nameplate to confirm the model code.

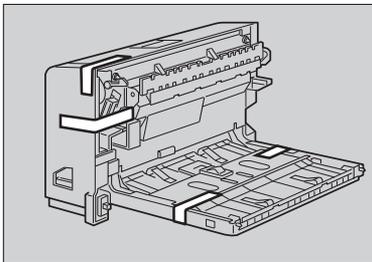
### 1 Check the contents of the box for the following items:

- Duplex Unit
- Installation Guide

### 2 Be sure to check the following points:

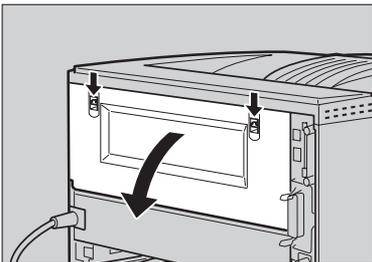
- The power switch is turned off.
- The interface cable is unplugged from the printer.

### 3 Remove the adhesive tapes.



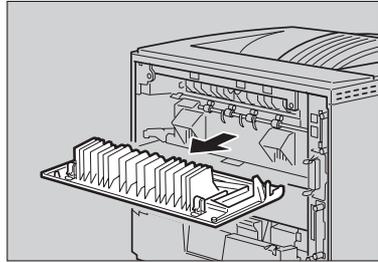
ZK GX310E

### 4 Open the rear cover by pushing the two knobs as shown in the illustration.



ZK GX210E

### 5 Remove the rear cover in the horizontal direction.

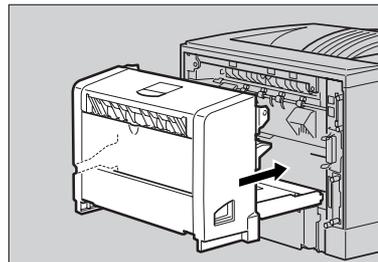


ZK GX220E

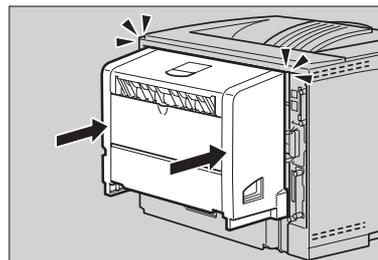
### Note

- The rear cover of the printer is not used when attaching the Duplex Unit.
- Store the removed rear cover for possible future use.

### 6 While aligning the power cord to the left side groove of the Duplex Unit, slide the Duplex Unit in until it is connected to the printer.



ZK GX231E



ZK GX240E

**7** Attach the interface cable to the printer.

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

 **Note**

- After installing the last option that you want, print the configuration page to confirm the installation. If the new device is listed in the column of configuration options, then it has been properly installed. For more information about printing the configuration page, see "*Printing the Configuration Page*" in the Printer Reference on the CD-ROM labeled "Operating Instructions".
- If the Duplex unit is not installed properly, repeat the procedure from step **2**. If you cannot install it properly even after reinstallation, contact your sales or service representative.
- If the printing position is not correct, adjust the registration of the trays. For more information about adjusting the registration of the trays, see "Adjusting the Registration of the Trays" in the Printer Reference.

2

# 3. 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.33 “Installing the Printer Driver and Software”.
- Ethernet: Make the settings in p.29 “Ethernet Configuration”, and then see p.33 “Installing the Printer Driver and Software”.

## Ethernet Configuration

Configure the printer for the network using the printer'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 “Operating Instructions”.

For information about “Host Interface” menu, see “Host Interface Menu” in the Printer Reference on the CD-ROM labeled “Operating Instructions”.

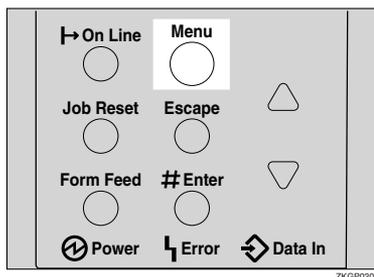
Setting Name	Value	
DHCP	On	
IP Address <sup>*1</sup>	011.022.033.044	
Subnet Mask <sup>*1</sup>	000.000.000.000	
Gateway Address <sup>*1</sup>	000.000.000.000	
Frame Type (NW) (Frame type NetWare)	Auto	
Active Protocol	TCP/IP	<input type="radio"/> <sup>*2</sup>
	NetWare	<input type="radio"/> <sup>*2</sup>
	NetBEUI	<input type="radio"/> <sup>*2</sup>
	AppleTalk	<input type="radio"/> <sup>*2</sup>
Ethernet <sup>*3</sup>	Auto	
LAN Type	Ethernet	

<sup>\*1</sup> If DHCP is in use, the IP address, subnet mask, and gateway address are all set automatically.

<sup>\*2</sup>  means that this protocol is active.

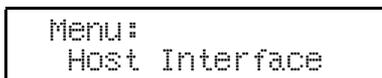
<sup>\*3</sup> Make this setting only when it is necessary.

### 1 Press [Menu].

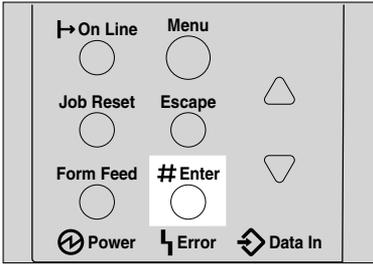


“Menu” appears on the panel display.

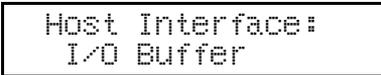
### 2 Press [▲] or [▼] to display “Host Interface” menu.



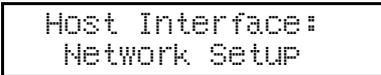
**3** Press [# Enter].



The following message appears on the panel display.

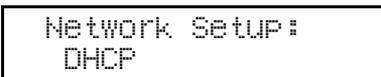


**4** Press [▲] or [▼] to display "Network Setup".



**5** Press [# Enter].

The following message appears on the panel display.

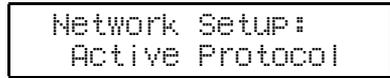


**6** Select the protocol you want to use.

**Note**

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

**1** Press [▲] or [▼] to display "Active Protocol".



**2** Press [# Enter].

The current setting appears on the panel display.



**3** Press [# Enter].

**4** Press [▲] or [▼] 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".
- Enable TCP/IP to use the Pure IP environment of NetWare 5/5.1.

**7** When you use this machine in DHCP environment, proceed to step 7. When you use this machine with a fixed IP address, you must make the setting for the required item after setting DHCP to Off. Proceed to step 8.

**Important**

- When DHCP is On, you cannot make settings for the following items:
  - IP Address
  - Subnet Mask
  - Gateway Address

Consult your network administrator for information about making network settings.

**8** Set DHCP to Off.

- 1 Press **[▲]** or **[▼]** to display "DHCP", and then press **[# Enter]**.

```
Network Setup:
  DHCP
```

- 2 Press **[▲]** or **[▼]** to display "Off", and then press **[# Enter]**.

```
DHCP:
*Off
```

**Note**

- \* shows the current setting.
- After about two seconds, the display returns to the "Network Setup" setting screen.

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

```
Network Setup:
  IP Address
```

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

The current IP address appears on the panel display.

```
IP Address:
  000.000.000.000
```

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

```
IP Address:
  192.000.000.000
```

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

The pointer (█) moves to the next entry field automatically.

```
IP Address:
  192.00█.000.000
```

**Note**

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

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

```
IP Address:
  192.168.000.011
```

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

```
Network Setup:
  IP Address
```

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

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

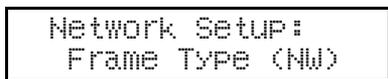
Select one of the items below if necessary.

- 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 [▲] or [▼] to display "Frame Type (NW)".



**2** Press [# Enter].

The current setting appears on the panel display.



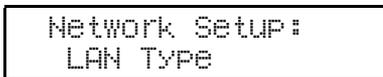
**3** Press [▲] or [▼] to display the frame type you want to use.

**4** Press [# Enter].

**12** Select the interface.

- Ethernet

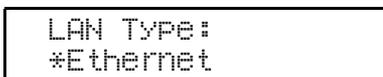
**1** Press [▲] or [▼] to display "LAN Type".



**2** Press [# Enter].

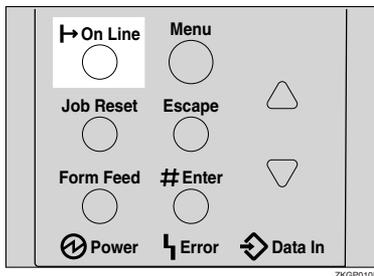
The current setting appears on the panel display.

**3** Press [▲] or [▼] 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" in the Printer Reference.

The settings are now complete. Go to p.33 "Installing the Printer Driver and Software".

# 4. 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

The following table shows how to install the printer drivers and software.

	Auto Run <sup>*1</sup>		
	Quick Install		Custom installation <sup>*2</sup>
	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 printer driver			<input type="radio"/>
Font Manager			<input type="radio"/>
SmartDeviceMonitor for Admin			<input type="radio"/>
DeskTopBinder - SmartDeviceMonitor for Client	<input type="radio"/>		<input type="radio"/>

<sup>\*1</sup> Available operating systems are as follows: Windows 2000/XP/Vista, Windows Server 2003

<sup>\*2</sup> Using custom installation, you can install various software separately.

### Reference

When the printer is connected to the computer using USB, see p.50 “Installing the Printer Driver Using USB”.

### 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.

## Quick Install

Auto Run will start the installer automatically when you load the CD-ROM in the CD-ROM drive. By selecting Quick Install, you can install the necessary software easily.

TCP/IP requires the following:

- This machine must be connected to the network through the network interface cable.
- This machine must be turned on.
- The TCP/IP protocol must be configured.
- An IP address must be allocated to this machine and to the computer.

### Limitation

- If your system is Windows 2000/XP/Vista or Windows Server 2003, 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, launch "Setup.exe" located on the CD-ROM root directory.

If you want to cancel Auto Run, 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 to change the interface language, and then click **[OK]**.

The following languages are available: Chinese (China), English (English)

**4** Select **[Quick Install]**.

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

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

**6** Click to select a model name you want to use when the "Select Printer" dialog box appears.

 **Note**

- For a network connection with TCP/IP, select the printer whose IP address is displayed in **[Connect To]**.
- For parallel connection, select the printer 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/Vista or Windows Server 2003, 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.

# Installing the PCL 6/5e Printer Driver

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## Installing the PCL 6/5e Printer Driver

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Two kinds of PCL printer drivers, PCL 6 and PCL 5e, are provided with this printer. We recommend PCL 6 as your first choice.

### Limitation

- If your system is Windows 2000/XP/Vista or Windows Server 2003, 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.

### Important

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

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

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

Auto Run will start the installer.

### 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, delete the old version, and then install the new one.

### Note

- Auto Run might not work automatically due to certain operating system settings. If this is the case, launch “Setup.exe” located in the CD-ROM root directory.

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

The following languages are available: Chinese (China), English (English)

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

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

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 driver you want to install when the "Select Program" dialog box appears.

**7** 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/Vista or Windows Server 2003, the **[Hardware Installation]** dialog box may appear. In this case, click **[Continue Anyway]** to continue the installation.

---

## Setting Up Options

---

### Important

- If the printer is equipped with certain options, you should set up the options with the printer driver.

### Limitation

- In Windows 2000/XP/Vista or Windows Server 2003, 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.

### Note

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

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

The **[Printers]** window appears.

#### Note

- With Windows XP Professional/Windows Server 2003, open the **[Printers and Faxes]** window from **[Start]** on the taskbar.
- With Windows XP Home Edition, open **[Control panel]** from **[Start]**, click **[Printers and Other Hardware]**, and then click **[Printers and Faxes]** on the screen that appears.
- With Windows Vista, open the **[Control Panel]** from **[Start]**, click **[Hardware and Sound]**, and then click **[Printers]** on the screen that appears.

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

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

The Printer Properties appear.

#### Note

- With Windows Vista, Right-click the icon of the printer you want to use, and then click **[Properties]**.

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

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

### **6** Click **[OK]**.

# Installing the RPCS Printer Driver

## Installing the RPCS Printer Driver

### Limitation

- If your system is Windows 2000/XP/Vista or Windows Server 2003, 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.

### Important

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

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

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

Auto Run will start the installer.

### 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, delete the old version, and then install the new one.

### Note

- Auto Run might not work automatically due to certain operating system settings. If this is the case, launch “Setup.exe” located in the CD-ROM root directory.

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

The following languages are available: Chinese (China), English (English)

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

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

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 RPCS printer driver when the "Select Program" dialog box appears.

**7** 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/Vista or Windows Server 2003, the **[Hardware Installation]** dialog box may appear. In this case, click **[Continue Anyway]** to continue the installation.

---

## Setting Up Options

---

### Important

- If the printer is equipped with certain options, you should set up the options with the printer driver.

### Limitation

- In Windows 2000/XP/Vista or Windows Server 2003, 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.

### Note

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

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

The **[Printers]** window appears.

#### Note

- With Windows XP Professional/Windows Server 2003, open the **[Printers and Faxes]** window from **[Start]** on the taskbar.
- With Windows XP Home Edition, open **[Control panel]** from **[Start]**, click **[Printers and Other Hardware]**, and then click **[Printers and Faxes]** on the screen that appears.
- With Windows Vista, open the **[Control Panel]** from **[Start]**, click **[Hardware and Sound]**, and then click **[Printers]** on the screen that appears.

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

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

The Printer Properties appear.

#### Note

- With Windows Vista, Right-click the icon of the printer you want to use, and then click **[Properties]**.

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

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

### **6** Click **[OK]**.

# Installing the PostScript Printer Driver

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

## Important

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

---

## Installing the PostScript 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.

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

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

Auto Run will start the installer.

#### 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, delete the old version, and then install the new one.

#### Note

- Auto Run might not work automatically due to certain operating system settings. If this is the case, launch “Setup.exe” located in the CD-ROM root directory.

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

The following languages are available: Chinese (China), English (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 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 printer you want to use, and then click **[Next]**.

**9** 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/Vista or Windows Server 2003, the **[Hardware Installation]** dialog box may appear. In this case, click **[Continue Anyway]** to continue the installation.

4

---

## Setting up options

---

 **Important**

- If the printer is equipped with certain options, you should set up the options with 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.

 **Note**

- With Windows XP Professional/Windows Server 2003, open the **[Printers and Faxes]** window from **[Start]** on the taskbar.
- With Windows XP Home Edition, open **[Control panel]** from **[Start]**, click **[Printers and Other Hardware]**, and then click **[Printers and Faxes]** on the screen that appears.
- With Windows Vista, open the **[Control Panel]** from **[Start]**, click **[Hardware and Sound]**, and then click **[Printers]** on the screen that appears.

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

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

The Printer Properties appear.

 **Note**

- With Windows Vista, Right-click the icon of the printer you want to use, and then click **[Properties]**.

- 4** Click the **[Device Settings]** tab.
- 5** Select options you have installed from the **[Installable Options]**.
- 6** Click **[OK]**.

### **Bidirectional transmission**

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

- Bidirectional transmissions are supported by Windows 2000/XP/Vista and Windows Server 2003.
- When bidirectional transmission is running, the machine status and information are obtained 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 printer must be set to bidirectional transmission.
- The Interface cable must support bidirectional transmission.
- The machine must be connected to the computer using the standard parallel cable and parallel connector.
- Under Windows 2000, **[Enable bidirectional support]** must be selected and **[Enable printer pooling]** must not be selected on the **[port]** tab with RPCS printer driver.

#### ❖ **When connecting with the network**

- The printer must be set to bidirectional transmission.
- SmartDeviceMonitor for Client included on the CD-ROM must be installed, and the TCP/IP protocol must be used.
- Under Windows 2000/XP/Vista and Windows Server 2003, **[Enable bidirectional support]** must be selected and **[Enable printer pooling]** must not be selected on the **[port]** tab with RPCS printer driver.

#### ❖ **When connecting with USB**

The printer must be connected to the USB connector of a computer using the USB interface cable.

### **Cautions when connecting the USB interface cable**

#### **Limitation**

- Do not unplug the cable while printing. Do not turn off the printer power while printing or during bidirectional transmission.

---

## Mac OS - Installing the PostScript 3 Printer Driver

---

### Preparation

If the AdobePS installation starts under Mac OS X, the desktop automatically changes to the Classic environment. If you want to set a printer with Mac OS X, see p.48 “Mac OS X - Installing the PostScript 3 Printer Driver”.

This section describes how to configure Mac OS to use EtherTalk and USB. The following procedure describes how to configure Mac OS 9.1. If you are not using Mac OS 9.1, see the manual that comes with your version of the Mac OS for more information.

### Limitation

- For use with Mac OS 8.6 or later. (Mac OS X Classic environment is supported.)
- For use with a Macintosh, Power PC is required.

### Note

- The PostScript 3 printer driver is stored in the following folder on the CD-ROM:

**Mac OS 8 and 9:PS Driver:(language):Disk1**

- 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 are using.
- 6** Open [DISK1], and then double-click the installer icon.
- 7** Follow the instructions on the screen.
- 8** Double-click the CD-ROM icon.
- 9** Double-click the [Mac OS 8 and 9] folder.
- 10** Double-click the [Printer Descriptions] folder.
- 11** Double-click the folder of the language you are using.
- 12** Open [Disk1].
- 13** Drag the PPD file and the Plugin file into [Printer Descriptions] in [Extensions] which is in [System Folder].
- 14** 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.45 "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 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.

### Reference

For information about installing the Printer Utility for Mac, see the PostScript 3 Operating Instructions Supplement.

---

## Installing the Adobe Type Manager

---

 **Note**

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

**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 the screen.

**8** When the procedure is complete, restart the computer. ATM will be completely installed only after restarting.

**9** On the [Apple] menu, click [Control Panel], and then click [-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

---

The screen fonts described below can be found on the CD-ROM, in the folder named **[Fonts]**.

**1** Start the Macintosh.

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

The CD-ROM icon appears.

**3** Double-click the CD-ROM icon.

The contents of the CD-ROM appear.

**4** Double-click the **[Mac OS 8 and 9]** folder.

**5** Double-click the **[Fonts]** folder.

**6** Double-click the **[Screen font]** folder.

**7** Double-click the **[TrueType]** or **[Type1]** folder.

Select the font enter you want to use.

**8** Copy the fonts you want to install into **[Fonts]** in the **[System Folder]**.

A Confirmation dialog box appears.

**9** Click **[OK]**.

The fonts are installed.

**10** Restart the Macintosh.

---

## Mac OS X - Installing the PostScript 3 Printer Driver

---

This section describes how to configure a Mac OS X to use Ether Talk. The following procedure describes how to configure Mac OS X 10.1. If you are not using Mac OS X 10.1, see the manual that comes with your version of the Mac OS X for more information.

 **Limitation**

- For use with Mac OS X 10.1 or later.
- For use with a Macintosh, PowerPC G3 or later is required.

 **Note**

- The PPD file is stored in the following folder on the CD-ROM:

**Mac OS X:PPD Installer**

4

---

### Installing the PPD File

---

It is necessary to install a PPD file to print from a Macintosh.

 **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 installer icon.
- 5** Follow the instructions on the screen.

---

### Setting Up the PPD File

---

**1** Run Print Center.

**2** Click [Add Printer].

Click [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 of the model you are using on the [Printer Model:] pop-up menu, and then click [Add].

---

## Setting Up Options

---

### ! Limitation

- You can make all the settings of printer features, even if the necessary option is not installed, due to the limitation of Mac OS X native mode. Confirm which option is installed to the machine before you print.

# Installing the Printer Driver Using USB

This section describes basic instructions for installing the printer drivers using USB. The printer drivers can be installed from the provided CD-ROM.

## Important

- Be sure that all other applications are closed and that the computer is not currently making prints before installation.

---

## Windows 2000/XP, Windows Server 2003 - USB

---

4

## Important

- Installing a printer driver requires Administrators permission. Log on using an account that has Administrators permission.

If the printer driver has already been installed, plug and play is enabled, and the icon of the printer connected to the "USB" port is added to the **[Printers]** window.

If the printer driver is not installed, follow the plug-and-play instructions of the printer to install it from the CD-ROM provided.

**1** Check that the power of the printer is off.

**2** Connect the printer and computer using the USB cable.

Connect the USB cable firmly.

**3** Turn on the power of the printer.

Found New Hardware Wizard starts, and USB Printing Support is installed automatically.

**4** In the Found New Hardware Wizard display, click **[Search for a suitable driver for my device [recommended]]**, and then click **[Next >]**.

**5** Select the **[Specify location]** check box, and then click **[Next >]**.

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

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

**7** Specify the location where the source files of the printer driver is stored.

If the CD-ROM drive is D, the source files of the printer driver are stored in the following locations:

- RPCS  
D:\DRIVES\RPCS\XP\_VISTA\ (Language)\DISK1
- PCL 5e  
D:\DRIVES\PCL5E\XP\_VISTA\ (Language)\DISK1
- PCL 6  
D:\DRIVES\PCL6\XP\_VISTA\ (Language)\DISK1
- PostScript 3  
D:\DRIVES\PS3\XP\_VISTA\ (Language)\DISK1

**8** Check the printer driver location, and then click **[OK]**.**9** Click **[Next >]**.**10** Click **[Finish]**.

If the printer driver has already been installed, plug and play is enabled, and the icon of the printer connected to the "USB001" port is added to the **[Printers]** window.

 **Note**

- To disable Auto Run, press the left Shift key when inserting the CD-ROM into the drive and keep it pressed until the computer finishes reading from the CD-ROM.
- The number after "USB" varies depending on the number of printers connected.

---

## Windows Vista - USB

---

### Important

Installing a printer driver requires Administrators permission. Log on using an account that has Administrators permission.

If the printer driver has already been installed, plug and play is enabled, and the icon of the printer connected to the "USB" port is added to the **[Printers]** window. The printer drivers can be installed from the CD-ROM provided with this printer.

If the printer driver is not installed, follow the plug-and-play instructions of the printer to install it from the CD-ROM provided.

**4** **1 Check that the power of the printer is off.**

**2 Connect the printer and computer using the USB cable.**

Connect the USB cable firmly.

**3 Turn on the power of the printer.**

Found New Hardware Wizard starts, and USB Printing Support is installed automatically.

**4 In the Found New Hardware Wizard display, click [Search for a suitable driver for my device [recommended]], and then click [Next >].**

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

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

**6 Select the [Include this location in the search] check box under [Search for the best driver in these location], and then click [Browse] to select the printer driver location.**

If the CD-ROM drive is D, the source files of the printer driver are stored in the following locations:

- RPCS  
D:\DRIVES\RPCS\XP\_VISTA\ (Language)\DISK1
- PCL 5e  
D:\DRIVES\PCL5E\XP\_VISTA\ (Language)\DISK1
- PCL 6  
D:\DRIVES\PCL6\XP\_VISTA\ (Language)\DISK1
- PostScript 3  
D:\DRIVES\PS3\XP\_VISTA\ (Language)\DISK1

**7** Check the printer driver location, and then click **[Next >]**.

**8** Click **[Continue]**.

**9** Click **[Finish]**.

If the installation is successful, the icon of the printer connected to the "USB001" port is added to the **[Printers and Faxes]** window.

 **Note**

- To disable Auto Run, press the left Shift key when inserting the CD-ROM into the drive and keep it pressed until the computer finishes reading from the CD-ROM.
- The number after "USB" varies depending on the number of printers connected.

## Troubleshooting USB

Problem	Solutions
The printer is not recognized automatically.	Turn off the power of the printer, reconnect the USB cable, and then turn it on again.
Windows has already configured the USB settings.	Open Windows' Device Manager, and then, under <b>[Universal Serial Bus controllers]</b> , remove any conflicting devices. Conflicting devices have a [!] or [?] icon by them. Take care not to accidentally remove required devices. For details, see Windows Help.  When using Windows 2000/XP/Vista or Windows Server 2003, an erroneous device is displayed under <b>[USB Controller]</b> in the <b>[Device Manager]</b> dialog box.

4

## Mac OS-Creating a Desktop Printer icon

To use a printer connected by USB, create a Desktop Printer icon.

- 1** Install the printer driver. For more information about how to install the printer driver, see p.41 "Installing the PostScript Printer Driver".
- 2** Double-click **[Desktop Printer Utility]** in the **[AdobePS Components]** folder.
- 3** Select **[AdobePS]** in **[With:]** and **[Printer (USB)]** in **[Create Desktop]**, and then click **[OK]**.
- 4** Click **[Change]** in **[USB Printer Selection]**.
- 5** Select the model you are using in **[Select a USB Printer:]**, and then click **[OK]**.
- 6** Click **[Auto Setup]** in **[PostScript™ Printer Description (PPD) File]**.
- 7** Click **[Create]**.
- 8** Enter the printer name, and then click **[Save]**.  
The printer icon appears on the desktop.
- 9** Exit the Desktop Printer Utility.

# Installing the SmartDeviceMonitor for Client

## Important

- To install SmartDeviceMonitor for Client under Windows 2000/XP/Vista, and Windows Server 2003, you must have an account that has Manage Printers permission. Log on as an Administrator.
- Install SmartDeviceMonitor for Client before installing the printer driver when using the SmartDeviceMonitor for Client port.

**1** Quit all applications currently running.

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

The installer starts.

**3** Select an interface language, and then click **[OK]**.

The default interface language is English.

**4** Click **[DeskTopBinder - SmartDeviceMonitor for Client]**.

**5** The message to quit all other applications appears. Quit all applications, and then click **[Next >]**.

**6** The software license agreement appears in the **[License Agreement]** dialog box. After reading through its contents, click **[Yes]**.

**7** Click **[Full install]** or **[Custom install]**.

**[Full install]** installs all required applications: DeskTopBinder Lite and SmartDeviceMonitor for Client.

**[Custom install]** installs selected applications.

**8** Follow the instructions on the display and then click **[Next >]** to proceed to the next step.

**9** After the installation is completed, select one of the options to restart the computer either now or later, and click **[Complete]**.

# Installing the SmartDeviceMonitor for Admin

Follow the procedure below to install SmartDeviceMonitor for Admin.

**1** Quit all applications currently running.

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

The installer starts.

**3** Select an interface language, and then click [OK].

The default interface language is English.

**4** Click [SmartDeviceMonitor for Admin].

**5** Click [Next >].

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

**6** After reading through its contents, click [Next >].

**7** Follow the instructions on the screen.

A message appears when the installation is completed.

**8** Click [OK].

A message about restarting the computer may appear. Restart the computer to complete installation.

 **Note**

- Auto Run may not work under certain operating system settings. In this case, launch "Setup.exe" located on the CD-ROM root directory.
- If you are required to restart the computer after installing SmartDevice-Monitor for Admin, restart the computer and continue the configuration.

# Installing the Font Manager

## ! Limitation

- If your system is Windows 2000/XP/Vista or Windows Server 2003, installing software by Auto Run requires Administrators permission. When you install a printer driver by 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 [Font Manager].

**4** Follow the instructions on the screen.

# Using Adobe PageMaker Version 6.0, 6.5, or 7.0

If you use this printer under Windows 2000/XP/Vista or Windows Server 2003 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\XP\_VISTA\Language\DISK1\” on the CD-ROM.

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

Copy the file with the 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:\PM65\RSRC\USENGLISH\PPD4”.

The “USENGLISH” may vary depending on your language selection.

- **For PageMaker 7.0 default installation**

The directory is “C:\PM7\RSRC\USENGLISH\PPD4”.

The “USENGLISH” may vary depending on your language selection.

 **Note**

- If the driver is not set correctly after copying the “.ppd” file, printing may not be performed properly.
- When using PageMaker, the optional features that can be selected by the printer driver will not be active. The following procedure describes how to activate the optional printer features.
  - ① On the **[File]** menu, click **[Print]**.  
The **[Print Document]** dialog box appears.
  - ② Make the necessary settings in the **[Features]** box.

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