



# Aficio

## RICOH-SCRIPT2 Type204 (Option)

### OPERATING INSTRUCTIONS



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

For safety, please follow the instructions in this manual.

## **Introduction**

Please read the Safety Information in the "Operating Instructions" that comes with the printer 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.

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## **Note**

The proper names of Windows operating system are as follows:

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

# 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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# 1. Getting Acquainted

## Getting Acquainted with RICOH-SCRIPT2 Type204

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### Unpacking the RICOH-SCRIPT2 Type204

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Check the contents of the box for the following items.

- DIMM (RICOH-SCRIPT2 Type204)
- Installation Guide
- Operating Instructions (this manual)

## About the CD-ROM

### Note

- The CD-ROM comes with your printer.

### ❖ For Windows

FOLDER NAME			Comments	
DRIVERS	RPS2	WIN95_98	Please use the language driver that corresponds to the language of your operating system.	
		ENGLISH		
		DEUTSCH		
		FRANCAIS		
		ITALIANO		
		NEDRLNDS		
		NT4		
		ENGLISH		
		DEUTSCH		
		FRANCAIS		
		ITALIANO		
		NEDRLNDS		
		ZONE-NAME		
	HELP	RPS2	ENGLISH	Operating Instructions in English (PDF file)
DEUTSCH			Operating Instructions in German (PDF file)	
FRANCAIS			Operating Instructions in French (PDF file)	
ITALIANO			Operating Instructions in Italian (PDF file)	
NEDRLNDS			Operating Instructions in Dutch (PDF file)	



## ◆ For Macintosh

FOLDER NAME		Comments	
Printer Descriptions	English	Please use the language PPD file that corresponds to the language of your operating system.	
	Deutsch		
	Francais		
	Italiano		
	Nederlands		
Fonts	Screen fonts included		
ColorSync™ Profiles	ColorSync™ Profiles included		
Zone Name			
HELP	RPS2	English	Operating Instructions in English (PDF file)
		Deutsch	Operating Instructions in German (PDF file)
		Francais	Operating Instructions in French (PDF file)
		Italiano	Operating Instructions in Italian (PDF file)
		Nederlands	Operating Instructions in Dutch (PDF file)

## Installing the RICOH-SCRIPT2 (DIMM) to Your Printer

### Reference

See the “Operating Instructions” that comes with the printer for details on installing the RICOH-SCRIPT2 (DIMM) to your printer.

# Features of the RICOH-SCRIPT2

1

## ❖ What is RICOH-SCRIPT2?

RICOH-SCRIPT2 is an interpreter, developed independently by RICOH COMPANY, LTD., based on PostScript Level 2 developed by Adobe Systems Incorporated.

RICOH-SCRIPT2 is a printer language optimized for printers for reproducing images on paper. Installing the RICOH-SCRIPT2 provides your printer with PostScript capabilities.

RICOH-SCRIPT2 supports PostScript Level 2, which means that it can be used for printing in the Windows, or Macintosh environment.

RICOH-SCRIPT2 prints text, graphics, images, and just about any other type of complex data.



## **Interpreter**

An interpreter is software that analyzes PostScript data and converts it to printable data. RICOH-SCRIPT2 converts PostScript data into data that can be printed by your printer.



# Printing with the RICOH-SCRIPT2

## ❖ PPD (PostScript Printer Description) files

- **Windows 95/98/NT4.0**

You can use the Windows 95/98/NT4.0 printer drivers that come with your operating system. However, if you use these drivers without the PPD files unique for this printer, you will lose some functions specific for this printer. Specific functions can be used by installing the PPD file to your operating system.

- **Macintosh**

You can use the Macintosh LaserWriter 8 driver that comes with your operating system. However, if you use these drivers without the PPD files unique for this printer, you will lose some functions specific for this printer. Specific functions can be used by installing the PPD file to your operating system.

## ❖ Monochrome/Color printing

RICOH-SCRIPT2 supports monochrome and full color printing.

## ❖ Image printing modes

RICOH-SCRIPT2 supports two different image printing modes. One is suitable for printing photographs, and the other for text.

## ❖ Built-in color profiles

RICOH-SCRIPT2 comes with three color profiles (Photograph, Presentation, and Solid Color). Color profiles are used to maximize color printing ability. With the Macintosh, you can also use the ColorSync™ profile data to reproduce the characteristics of color data used in the document for printing.

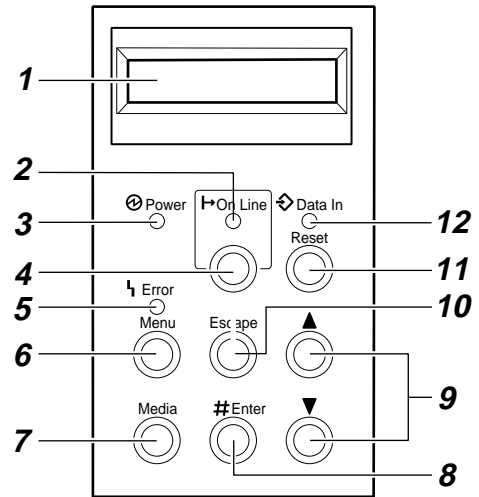
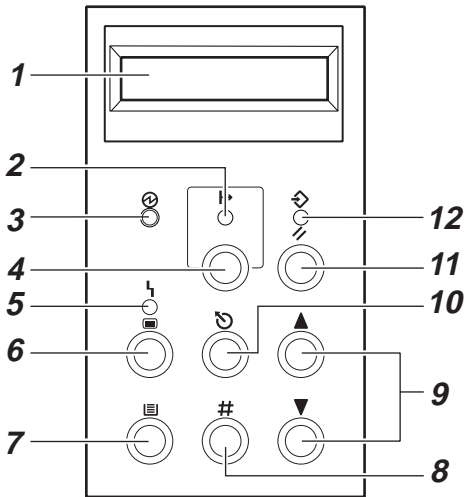
## Note

- The optional network interface board is required for printing from the Macintosh.

# Operation Panel

## Important

- ❑ Never press any operation panel keys while the **Data In** indicator is flashing on the operation panel.



### 1. Panel Display

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

### 2. On Line indicator

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

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

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

### 3. Power indicator

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

### 4. [On Line] key

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

### 5. Error indicator

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

### 6. [Menu] key

Press this key to make and check the printer settings.

### 7. [Media] key

Use this key to select a tray, change the paper size, and to make other settings for printing.

### 8. [Enter] key

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

### 9. [▲][▼] keys

Use these keys to increase and decrease values on the panel display, and toggle menus when making settings.

**10. [Escape] key**

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

**11. [Reset] key**

Pressing this key when the printer is off-line resets the printer to its power on default settings.

Pressing this key when the printer is on-line cancels the ongoing print job.

 **Reference**

For more information on the operation panel, see the “Operating Instructions” that comes with your printer.

For more information on the operation panel, see P.49 “*Making Printer Settings with the Operation Panel*”.

**12. Data In indicator**

Blinks while the printer is receiving data from the computer.

Stays on if there is data to be printed.

# Messages on the Operation Panel

1

Message	Descriptions
Initializing	RICOH-SCRIPT2 is initializing. Wait for a while.
Offline	The printer is off-line and cannot receive data.
Processing	Data received from the computer is being processed for printing.
Printing...	Printing is in progress.
Ready	The printer is on-line and can receive data from the computer.
Resetting...	A print job was interrupted by pressing <b>[Reset]</b> , or a PostScript error occurred.
Waiting	Printing is in progress, and the printer is standing by for more data from the computer

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## PostScript Error

PostScript errors occur for the following reasons:

- there is not enough memory in the printer.
- there are errors in the data to be sent to the printer.

Some errors can be solved by adding memory to your printer. For more information on printer memory and VM area, see P.57 "*Printer Memory and VM Area*".

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# 2. Using RICOH-SCRIPT2 with Windows

## Before Installing RICOH-SCRIPT2

Follow the steps below to use RICOH-SCRIPT2 with Windows operating system.

① **Install the printer driver.**

Install the printer driver and PPD file. The printer driver and PPD file you should install depend on the version of Windows operating system you are using.

 **Reference**

Windows 95/98 ⇒ P.12 *"Installing the Printer Driver"*

Windows NT4.0 ⇒ P.19 *"Installing the Printer Driver"*

② **Set up options.**

Make the necessary settings for the options you have installed to your printer.

 **Reference**

Windows 95/98 ⇒ P.13 *"Setting Up Options"*

Windows NT4.0 ⇒ P.21 *"Setting Up Options"*

③ **Specify if you use the TrueType fonts.**

You can specify if you use the TrueType fonts replaced with the printer's resident fonts for printing.

 **Reference**

Windows 95/98 ⇒ P.17 *"[Fonts] Tab"*

Windows NT4.0 ⇒ P.23 *"[Device Settings] Tab"*

## RICOH-SCRIPT2 Printer Drivers for Windows 95/98/NT4.0

The following shows the folders of the printer drivers for Windows that are included in the CD-ROM that comes with the printer.

### ❖ For Windows 95/98

FOLDER NAME				Comments
DRIVERS				
	RPS2			
		WIN95_98		
			ENGLISH	Please use the language driver that corresponds to the language of your operating system.
			DEUTSCH	
			FRANCAIS	
			ITALIANO	
			NEDRLNDS	

### ❖ For Windows NT4.0

FOLDER NAME				Comments
DRIVERS				
	RPS2			
		NT4		
			ENGLISH	Please use the language driver that corresponds to the language of your operating system.
			DEUTSCH	
			FRANCAIS	
			ITALIANO	
			NEDRLNDS	

## Operating Environment

### ❖ Supported operating systems

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



 **Note**

- Operation under Windows NT with a RISC processor (MIPS R Series, Alpha Axp, Power PC) is not supported.

**◆ Display resolution**

640 × 480 dots or better

 **Note**

- Make sure that sufficient hard disk space is available on your computer.

# Using RICOH-SCRIPT2 with Windows 95/98

## Installing the Printer Driver

For operation under Windows 95/98, you should install both the Windows 95/98 PostScript printer driver and the PPD file.

### Preparation

The following procedure describes installation when the printer is connected to the computer via parallel interface.

### Important

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

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

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

The [Printers] window opens.

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

The [Add Printer Wizard] starts up.

**4** Click [Next].

**5** Check [Local printer], and click [Next].

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

**6** Click [Have Disk].

A dialog for installing a driver from a disk appears.

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

**8** Click [Browse].

### Note

- The Windows 95/98 printer driver is on the following folder on the CD-ROM: \DRIVERS\RPS2\WIN95\_98\ (language)

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

**10** In the [Folders] box, double-click [DRIVERS], [RPS2], and then [WIN95\_98]. Then double-click the folder of the appropriate language. Finally, click [OK].

- 11** Click **[OK]**.
- 12** Select the name of the printer whose driver you want to install by clicking it, and then click **[Next]**.  
The port selection dialog appears.
- 13** In the **[Available ports]** box, select **[Printer Port]** by clicking it, and then click **[Next]**.
- 14** Change the name of the printer if you want, and then click **[Next]**.
- 15** Specify whether or not you want to print a test page, and then click **[Finish]**.  
The installer copies the printer driver files from the CD-ROM to your computer's hard disk.
- 16** If you are asked to insert the Windows 95/98 system disk, insert it into your computer, and then click **[OK]**.
- 17** If you are asked to specify the location of the required file for Windows 95/98, do the following:
  - Select the folder **[WIN95]** or **[WIN98]** in the system disk.
  - Move to the folder where the Windows is installed. Then, select the appropriate folder. The location of the appropriate folder may differ depending on the version of your operating system. The following are examples:  
**[WINDOWS\SYSTEM\OPTION\CABS]**  
**[WINDOWS\OPTION\CABS]**
- 18** If you are asked if you want to restart Windows, select **[Yes]**. If you are not asked, restart Windows after completing the installation.
- 19** After Windows restarts, set up any options you have installed to your printer.

 **Reference**

⇒ P.13 "Setting Up Options"

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## Setting Up Options

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- 1** Click **[Start]**, point to **[Settings]**, and then click **[Printers]**.  
The **[Printers]** window opens.
- 2** Select the icon of the printer you want to use by clicking it. On the **[File]** menu, click **[Properties]**.  
The Printer Properties appears.
- 3** Click the **[Device Options]** tab.

**4** In the **[Installable options]** box, select the option you have installed to your printer.

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

 **Note**

The following items are available here: **[Option Tray]**, **[VMOption]**.

**5** Use the **[Change settings for:]** list box 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]** to close the Printer Properties dialog.

 **Reference**

You can confirm that the options are properly set by printing a configuration page. ⇒ P.55 *"Printing the Configuration Page"*

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## Accessing the Printer Properties

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

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### Making Printer Default Settings

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

 **Note**

The following tabs are standard Windows tabs. For more information on these tabs, see the documentation that comes with your Windows operating system.

- **Windows 95:**  
**[General]**, **[Details]**, and **[Sharing]**
- **Windows 98:**  
**[General]**, **[Details]**, **[Sharing]**, and **[Color Management]**

Profiles set in the **[Color Management]** tab are not supported.

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

The **[Printers]** window opens.

**2** Select the icon of the printer you want to use by clicking it. On the **[File]** menu, click **[Properties]**.

The Printer Properties dialog appears.

## Reference

For more informations on each tab, see P.15 “*Printer Properties’ Tabs and Their Settings*”.

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## Making Printer Settings for Specific Applications

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The contents of the tabs are the default settings made in the Printer Properties dialog opened from the **[Printers]** window. You can make any changes you want for printing from the application you are currently running. Any settings you make in these tabs are valid for the current application only.

### **1** Open the application's print menu.

The **[Print]** dialog opens.

#### Note

- You can use this dialog to make basic settings, such as the number of copies, the print range, etc.

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

The Printer Properties dialog for the printer you selected appears.

#### Note

- For more information on each tab, see P.15 “*Printer Properties’ Tabs and Their Settings*”.

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## Printer Properties' Tabs and Their Settings

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This section describes the Printer Properties' tabs and the settings that are specific for this printer. The **[General]**, **[Details]**, **[Sharing]**, and **[Color Management]** tabs are standard Windows tabs. See the documentation that comes with your Windows operating system for details.

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### **[Paper]** Tab

---

#### ❖ Paper size

Use this to select the size of paper you want to use.

#### ❖ Paper source

Use this to select the paper tray you want to use. Available choices here are: **[Auto Tray Select]**, **[Tray 1]**, **[Tray 2]** (option).

#### Note

- If the paper tray you want to use is not available here, even though it is physically installed, use the **[Device Options]** tab to make the printer recognize the tray correctly. ⇒ P.17 “*[Device Options] Tab*”

## ❖ Copies

Use to specify the number of copies of a print job.

### Important

- With some applications, the number of copies specified with the application takes priority over the number of copies specified with the printer driver.

## ❖ More Options

Click to open the **[More Paper Options]** dialog. You can specify the paper type in this dialog. The following paper types are available: **[Plain Paper]**, **[OHP Transparency]**, **[Thick Paper]**.

### Note

- Selecting **[OHP Transparency]** as the paper type automatically changes the color profile to the OHP setting.

## ❖ About

Click to display the printer driver copyright and version information.

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## **[Graphics] Tab**

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## ❖ Resolution

Use this to set the resolution to **[300 dpi]** or **[600 dpi]**.

## ❖ Color control

Use this to specify if you want the colors in your documents to be adjusted before printing so that the printed page more closely matches the colors on your screen.

## ❖ Special

Use this to use to control the print image. Checking a check box changes the icon on the left so it reflects the option you select.

- **Print as a negative image**

Select this option to print a negative image, which is produced by replacing the three primary colors with their complementary colors, and by reversing black and white.

### Note

- Using negative image printing to output a color image might produce unexpected results.

- **Print as a mirror image**

Select this option to print a mirror image of your document by reversing the horizontal coordinates.

---

## [Fonts] Tab

---

Use this tab to select the TrueType font printing method.

If you select **[Send TrueType fonts to printer according to the font Substitution Table]**, you can edit the **[Font Substitution Table]**. Clicking **[Edit the Table]** on the **[Fonts]** tab displays the **[Font Substitution Table]** dialog. You can use this dialog to specify which TrueType fonts should be replaced with built-in printer fonts.

### ❖ Using the [Font Substitution Table]

- ① Open the **[Font Substitution Table]** dialog.
- ② In the **[For this TrueType font:]** list in the upper part of the dialog, select the TrueType font for which you want to specify a substitution font by clicking it.
- ③ Use the **[Printer font for:]** list box to select the printer font you want to specify.
- ④ Click **[OK]**.

---

## [Device Options] Tab

---

This tab includes settings that should be made after the printer driver is installed. These settings optimize the printer configuration.

### ❖ Available printer memory

Shows the printer memory capacity as set by the **[VMOption]**. You normally do not need to change this setting.

### ❖ Printer features

Shows settings that are specific for your printer. These features can be changed using the **[Change settings for:]** list box. The following is a list of available settings.

- **Auto Tray Switch**  
Turning on this setting tells the printer to automatically switch to the other tray when it has the same size of paper as the current tray when paper runs out while printing.
- **Color Mode**  
Use this to set the output color to **[Black & White]** or **[Color]**.
- **Color Setting**  
Use this to set the correction method used for the cover conversion. The following items are available: **[Off]**, **[Bright]**, **[Super Bright]**, **[Fine]**, **[Super Fine]**.
- **Color Profile**  
Use this to specify a color rendering dictionary (CRD). The CRD is referred to for color matching, so you should specify the appropriate CRD for the document you are printing. The CRD you specify is also referred to when "Fine" or "Super Fine" is selected for the "Color Setting". The following items are available: **[Photograph]**, **[Presentation]**, **[Solid Color]**.

- **Toner Saving**

Use this to set Toner Saving on or off.

- ✎ **Note**

- ☐ Turning on toner saving can cause the output to become blurred and result in very thin lines not printing at all. In the case of color printing, toner saving can cause colors to be different than expected. Because of this, use toner saving only for proofing and intermediate drafts, but turn it off for final prints when top quality is important.

- **Dithering**

Use this to set the image mode. The following items are available: **[Photographic]** and **[Text]**.

- ❖ **Installable options**

This box shows the options installed to the printer.

When selecting an option inside the upper list of this group, its current setting appears in the **[Change setting for:]** box. The following settings are available in the **[Change settings for:]** box.

For the optional tray unit: **[None]**, **[Tray 2]** (option)

For the optional memory unit (VMOption): **[16 MB RAM]**, **[32 MB RAM]**, **[48 MB RAM]**

- 🔍 **Reference**

For more information on the Color Setting, Color Profile, and Dithering, see P.51 “RPS2 Menu”.

---

## **[PostScript] Tab**

---

Use this tab to specify the output format of the PostScript files and the data processing method.

On the **[PostScript]** tab, click **[Advanced]** to display the **[Advanced PostScript Options]** dialog.

- ❖ **When the printer is connected to the network.**

Uncheck both **[Send CTRL+D before job]** and **[Send CTRL+D after job]**.

- ❖ **When the printer is connected to your computer via parallel interface cable.**

Check both for **[Send CTRL+D before job]** and **[Send CTRL+D after job]**. Also, make sure that **[ASCII data]** is checked. If it is not checked, check it.

- 🔍 **Reference**

For more information on the PostScript headers, see P.29 “Windows Headers”.

For more information on the network, see P.30 “Windows Network Environment”.



# Using RICOH-SCRIPT2 with Windows NT4.0

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## Installing the Printer Driver

---

For operation under Windows NT4.0, you should install both the Windows NT4.0 PostScript driver and the PPD file.

### Preparation

The following procedure describes installation when the printer is connected to the computer via parallel interface.

### Limitation

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

### Important

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

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

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

The [Printers] window opens.

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

The [Add Printer Wizard] starts up.

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

A dialog for selecting the printer port appears.

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

A dialog for selecting the printer manufacturer and model appears.

**6** Click [Have Disk].

A dialog for installing a driver from a disk appears.

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

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

 **Note**

- The Windows NT4.0 printer driver is in the following folder on the CD-ROM: \DRIVERS\RPS2\NT4\language.

- 9 In the **[Folders]** box, double-click **[Drivers]**, **[RPS2]**, and then **[NT4]**. Then double-click the folder of the appropriate language. Finally, click **[Open]**.

- 10 Click **[OK]**.

A printer model selection dialog appears.

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

A dialog for changing the printer name appears.

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

- 13 Click **[Next]**.

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

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

 **Note**

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

- 15 If you are asked to insert the Windows NT4.0 system disk, insert it into your computer, and then click **[OK]**.

- 16 If you are asked to specify the driver of the system disk, specify the drive of the Windows NT4.0 system disk.

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

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

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

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

- 19 After Windows restarts, set up any options you have installed to your printer.

 **Reference**

⇒ P.21 "Setting Up Options"

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## Setting Up Options

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### Setting Up Options

---

- 1** Click **[Start]**, point to **[Settings]**, and then click **[Printers]**.  
The **[Printers]** window opens.
- 2** Select the icon of the printer you want to use by clicking it. On the **[File]** menu, click **[Properties]**.  
The Printer Properties appears.
- 3** Click the **[Device Settings]** tab.
- 4** Under **[Installable Options]**, select the option you have installed to your printer.  
The current setting is displayed in the **[Change Settings]** box in the lower part of the tab.  
 **Note**  
 The following items are available here: **[Option Tray]** and **[Total Printer Memory]**.
- 5** Use the **[Change Settings]** box to select the appropriate setting for the selected option.
- 6** After making the settings you want, click **[OK]** to register your settings and close the Printer Properties dialog.  
 **Note**  
 You can confirm that the options are properly set by printing a configuration page. ⇒ P.55 "Printing the Configuration Page"

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### Assigning the Paper Source

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- 1** Click **[Start]**, point to **[Settings]**, and then click **[Printers]**.  
The **[Printers]** window opens.
- 2** Select the icon of the printer you want to use by clicking it. On the **[File]** menu, click **[Properties]**.  
The Printer Properties dialog opens.
- 3** Click the **[Device Settings]** tab.
- 4** Under **[Form to Tray Assignment]**, select the paper tray whose settings you want to change.  
The current settings are displayed in the **[Change Settings]** box in the lower part of this tab.

**5** Make sure that **[Draw selected form only from this tray]** is unchecked. If it is checked, uncheck it.

**6** Click **[OK]** to register the paper assignment and close the **Printer Properties**.

---

## Accessing the Printer Properties

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2

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### Making Printer Default Settings

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#### **Limitation**

- Changing the settings of the **Printer Properties** and **Default Document Properties** in the **[Printers]** window requires full control access rights. Log on as an Administrator or a Power Users group member.

#### **Making Printer Properties Settings**

- ① Click **[Start]**, point to **[Settings]**, and then click **[Printers]**.  
The **[Printers]** window opens.
- ② Select the icon of the printer you want to use by clicking it. On the **[File]** menu, click **[Properties]**.  
The **Printer Properties** dialog appears.

#### **Note**

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

#### **Reference**

For more information on settings, see P.23 “*Printer Properties’ Tabs and Their Settings*”.

#### **Making Default Document Properties Settings**

- ① Click **[Start]**, point to **[Settings]**, and then click **[Printers]**.  
The **[Printers]** window opens.
- ② Select the icon of the printer you want to use by clicking it. On the **[File]** menu, click **[Document Defaults]**.  
The **Default Document Properties** appears.

#### **Note**

- Settings you make here are used as the default settings when printing from applications.

#### **Reference**

For more information on settings, see P.25 “*Default Document Properties’ Tabs and Their Settings*”.

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## Making Printer Settings for Specific Applications

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### Note

- General users can change the settings in an application's **[Print]** dialog.

### **1** Select the application's **[Print]** command on the **[File]** menu.

The **[Print]** dialog opens.

### **2** Make sure that the displayed printer name is the printer you want to use, and then click **[Properties]**.

The Default Document Properties dialog appears.

### Reference

For more information on settings, see P.23 “*Printer Properties’ Tabs and Their Settings*” and P.25 “*Default Document Properties’ Tabs and Their Settings*”.

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## Printer Properties' Tabs and Their Settings

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This section describes the settings of the tabs that are specific for this printer.

### Note

- The **[General]**, **[Port]**, **[Scheduling]**, **[Sharing]**, and **[Security]** tabs are Windows NT4.0 standard tabs. See the documentation that comes with your Windows operating system for details.

### Limitation

- Changing the settings in the **[Printers]** window requires full control access rights. Log on as an Administrator or a Power Users group member.

---

### **[Device Settings] Tab**

---

The current setting appears in the lower part of the dialog when you click a setting item. Select the setting you want to make for the selected item.

#### ❖ Available PostScript Memory

Shows the amount of memory installed on the printer. Normally you do not need to change this setting.

### Note

- You can change this setting by changing the memory setting under **[Installable Options]**.

#### ❖ Halftone

Select the halftone pattern you want to use for printing. The following items are available: **[Use Printer Halftone]** and **[Use System Halftone]**.

### ❖ Halftone Setup

You can change the halftone settings.

### ❖ Form to Tray Assignment

Use this to assign the paper size to each tray. All paper sizes that can be used with Windows NT4.0 are displayed, however, only the paper sizes supported by the printer can be selected. Normally you do not need to change this setting.

#### Reference

For more information on paper sizes supported by the printer, see the “Operating Instructions” that comes with your printer.

#### Note

- If the paper tray you want to use is not available here, even though it is physically installed, use the **[Device Settings]** tab to make the printer recognize the tray correctly. ⇒ P.23 “[Device Settings] Tab”

### ❖ Font Substitution Table

Use this to edit the TrueType font substitution table. Under **[Font Substitution Table]**, the TrueType fonts installed on the computer are displayed. Select the setting you want to use from the **[Change Setting]** for each TrueType font.

### ❖ Job Timeout

Use this to set a job timeout period in the range of 0 to 32767 seconds. Setting a value to 0 turns the job timeout off.

### ❖ Wait Timeout

Use this to set a wait timeout period in the range of 0 to 32767 seconds. Setting a value to 0 turns the wait timeout off.

### ❖ Total Printer Memory

Use this to specify the amount of memory actually installed in the printer. The following settings are available: **[16 MB ]**, **[32 MB ]**, **[48 MB ]**.

### ❖ Option Tray

Use this to specify if the optional tray unit is installed on the printer. The following settings are available: **[None]** and **[Tray 2]**.

#### Reference

For more information on the options, see the printer's “Operating Instructions”.

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## Default Document Properties' Tabs and Their Settings

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### **Limitation**

- Changing the settings in the **[Printers]** window requires full control access rights. Log on as an Administrator or a Power Users group member.

### **Note**

- General users can change the settings in an application's **[Print]** dialog.

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## **[Page Setup] Tab**

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### ❖ **Page Size**

Shows the currently selected paper size. You can use the list box to select another paper size if you want.

#### **Note**

- All paper sizes that can be used with Windows NT4.0 are displayed, however, only the paper sizes supported by the printer can be selected.

#### **Reference**

For more information on paper sizes supported by this printer, see the printer's "Operating Instructions".

### ❖ **Paper Source**

Use this to specify the tray from which you want paper to be fed for printing. The following items are available: **[Automatically Select]**, **[Tray 1]**, **[Tray 2]** (option).

#### **Note**

- If you cannot select an option tray even though it is physically installed on the printer, use **[Installable Options]** on the **[Device Settings]** tab to correctly set up the option.

### ❖ **Copy Count**

Use this to set the number of copies of a print job.

#### **Important**

- With some applications, the number of copies specified with the application takes priority over the number of copies specified with the printer driver.

### ❖ **Orientation**

Use this to specify how the document is positioned on the page. The following settings are available: **[Portrait]**, **[Landscape]**, **[Rotated]**.

## ❖ Color Appearance

Use this to set the output color. The following settings are available: **[Gray Scale]**, **[Color]**.

---

## **[Advanced] Tab**

---

The current setting appears in the lower part of the dialog by clicking a setting item. Select the setting you want to make for the selected item.

## ❖ Graphic

- **Resolution**

Use this to set the resolution to **[300 dpi]** or **[600 dpi]**.

- **Color Appearance**

Use this to set the output color. The following settings are available: **[Gray Scale]**, **[Color]**.

- **TrueType Font**

Use this to set the TrueType font printing method. Selecting **[Substitute with Device Font]** causes TrueType fonts to be replaced with the printer's fonts in accordance with the font substitution table.

## ❖ PostScript Options

- **Mirrored Output**

Select this option to print a mirror image of your document by reversing the horizontal coordinates.

- **Negative Output**

Select this option to print a negative image, which is produced by replacing the three primary colors with their complementary colors, and by reversing black and white.

 **Note**

Using the negative image printing to output a color image might produce unexpected results.

- **Send CTRL-D Before Each Job and Send CTRL-D After Each Job**

When the printer is connected to the network, select **[No]** for both **[Send CTRL-D Before Each Job]** and **[Send CTRL-D After Each Job]**

When the printer is connected to your computer via parallel interface cable, select **[Yes]** both for **[Send CTRL-D Before Each Job]** and **[Send CTRL-D After Each Job]**.

- **Halftone Color Adjustment**

Use this to adjust the halftone settings.



## ❖ Printer Features

- **Auto Tray Switch**

Turning on this setting tells the printer to automatically switch to the other tray when it has the same size of paper as the current tray when paper runs out while printing.

- **Color Mode**

Use this to set the output color to **[Black & White]** or **[Color]**.

- **Color Setting**

Use this to set the correction method for the color conversion. The following items are available: **[Off]**, **[Bright]**, **[Super Bright]**, **[Fine]**, **[Super Fine]**.

- **Color Profile**

Use this to set the color rendering dictionary (CRD). The CRD is referred to for color matching, so you should specify the appropriate CRD for the document you are printing. The CRD you specify is also referred to when "Fine" or "Super Fine" is selected for the "Color Setting". The following items are available: **[Photograph]**, **[Presentation]**, **[Solid Color]**.

- **Toner Saving**

Use this to set Toner Saving on or off.

 **Note**

- Turning on toner saving can cause the output to become blurred and result in very thin lines not printing at all. In the case of color printing, toner saving can cause colors to be different than expected. Because of this, use toner saving only for proofing and intermediate drafts, but turn it off for final prints when top quality is important.

- **Dithering**

Use this to specify the image mode. The following items are available: **[Photographic]**, **[Text]**.

- **Paper Type**

Use this to specify the paper type as **[Plain Paper]**, **[Thick Paper]**, or **[OHP Transparency]**.

 **Note**

- Selecting **[OHP Transparency]** as the paper type automatically changes the color profile to the OHP settings.

 **Note**

- [Paper Size]**, **[Orientation]**, **[Paper Source]**, **[Copy Count]**, and **[Color Appearance]** settings are linked to the settings on the **[Page Setup]** tab.

 **Reference**

For more information on the Color Setting, Color Profile, and Dithering, see P.51 "RPS2 Menu".

# Using Adobe® PageMaker® version 6.0 or 6.5

You should install the PPD file for PostScript printing with the Adobe® PageMaker®.

2

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## Installing the PPD Files

---

- 1** Close Adobe® PageMaker®, if it is currently running.
- 2** Insert the CD-ROM that comes with your printer into your computer's CD-ROM drive.
- 3** Select the CD-ROM drive.
- 4** In the [Folders] box, double-click [DRIVERS], [RPS2], and then [WIN95\_98]. Then double-click the folder of the appropriate language.

You can see the PPD file.

 **Note**

- For Windows 95/98/NT4.0, use the same PPD file included in the folder named DRIVERS\RPS2\WIN95\_98\language) of the CD-ROM that comes with your printer.

- 5** Copy the PPD file into the appropriate folder. The location of the appropriate folder may differ depending on the version of software or how you installed the software on your operating system. The following are examples:
  - Adobe® PageMaker® version 6.0: PM6\RSRC\PPD4
  - Adobe® PageMaker® version 6.5: PM65\RSRC\language)\PPD4

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## Selecting the PPD Files

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- 1** Launch Adobe® PageMaker®.
- 2** On the [File] menu, click [Print].  
The [Print Document] dialog appears.
- 3** From the [Printers] list box, select the printer you want to use.

 **Note**

- Make sure that “RPS” is shown after the printer name.

- 4** In the [PPD] list box, select the printer you want to use.

# Windows Headers

Headers are appended to the print data, and contain RICOH-SCRIPT2 commands required for proper printing. The default setting appends the headers to the data automatically for each print job, so you can print without worrying about the header data. You can specify how header data is sent to the printer with Windows 95/98.

## Important

- Changing header settings should be performed by system administrators who are familiar with the functions of PostScript.

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## Sending Header Data

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There are two methods for sending header data.

### ❖ Send header data for each print job (default)

Use this setting when printing data to a file and when printing to a shared network printer. Select **[Download header with each print job]** in the **[PostScript]** tab to enable this method.

### ❖ Send header to printer only once

This setting causes the header data to be stored in the printer memory, so jobs printed after the header data has already been sent print more quickly. Header data in the printer memory is cleared whenever the printer power is turned off, the printer is reset, or you switch to another type of the printer language. Printing without header data results in an error, so be careful when sending header data individually.

Select **[Assume header is downloaded and retained]** in the **[PostScript]** tab to enable this method. To use this setting, you should send the header data to the printer in advance, so click **[Send Header Now]**.

## Note

- When the header data is sent to the printer, a message to inform you that the header has been sent is printed.
- If you send a print job to the printer without the header, a message to inform you to send the header is printed. In this case, select **[Assume header is downloaded and retained]** or **[Send Header Now]** to send the header data to the printer. If the header has already been stored in the printer memory, a message is printed informing you that it has been stored.

## Windows Network Environment

PostScript data sent to the printer is processed by an interpreter. The interpreter translates programs written in ASCII code line-by-line into a form that can be recognized by the printer.

2

When the printer is connected to the computer via a parallel interface cable, PostScript data is processed in units called "jobs", and each job should have an EOF (End Of File = Ctrl+D) to indicate the end of the data to the printer. The printer continues to perform processing with the interpreter until receiving the EOF.

When the printer is connected to a network, because the network protocol controls the transferred data of jobs, the EOF is not required. Be sure to turn off the EOF.

### ❖ Windows 95/98

Open the **[PostScript]** tab of the Printer Properties. Click **[Advanced]**. Uncheck both **[Send CTRL+D after job]** and **[Send CTRL+D before job]**.

### ❖ Windows NT4.0

Open the **[Advanced]** tab of the Default Document Properties. Under **[Post-Script Options]**, select **[No]** for both **[Send CTRL-D After Each Job]** and **[Send CTRL-D Before Each Job]**.

# 3. Using RICOH-SCRIPT2 with Macintosh

## Before Installing RICOH-SCRIPT2

Follow the steps below to use RICOH-SCRIPT2 with the Macintosh LaserWriter 8 printer driver.

① **Install the PostScript Printer Description (PPD) file.**

Install the unique PPD file for this printer.

 **Reference**

⇒ P.33 *"Installing the PPD Files"*

② **Install the ColorSync™ profile.**

The profile files are used to maintain the color characteristics of the documents you create for printing. The ColorSync™ profiles are included in the CD-ROM that comes with your printer.

 **Reference**

⇒ P.34 *"Installing the ColorSync™ Profiles"*

③ **Select the printer.**

Use **[Chooser]** on the Apple menu to select the printer and PPD file.

 **Reference**

⇒ P.36 *"Setting Up PPD File"* and P.36 *"Setting Up Options"*.

④ **Install screen fonts.**

To use the printer's fonts, you should install the corresponding screen fonts. Once you install them, you can select those fonts for the screen display of your Macintosh, and the corresponding printer fonts will be used for printing. The screen fonts are included in the CD-ROM that comes with your printer.

 **Reference**

⇒ P.43 *"Installing Screen Fonts"*

## RICOH-SCRIPT2 PPD Files for Macintosh

The following table shows the folders and files for Macintosh included in the CD-ROM that comes with your printer.

FOLDER NAME		comments
Printer Descriptions		
	English	Please use the language PPD file that corresponds to the language of your operating system.
	Deutsch	
	Francais	
	Italiano	
	Nederlands	
Fonts	Includes Macintosh screen fonts.	
ColorSync™ Profiles	Includes ColorSync™ profiles.	
Zone Name		

### Note

- The PPD files are required when using the LaserWriter 8 driver for printing. The LaserWriter 8 refers to these files when printing, and the PPD files utilize the unique functions of the printer, such as color printing and resolution.

---

# Installing the PPD Files

You can use the LaserWriter printer driver that comes with your Macintosh when printing from a Macintosh. However, if you use the LaserWriter driver alone, you lose some printer specific functions. The printer specific functions can be used by installing the PPD file.

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## Operating Environment

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The LaserWriter printer driver for Macintosh does not come with this printer. Use the appropriate printer driver that comes with the Macintosh operating system you are using.

### Note

- This manual describes only the settings specific for this printer. Settings actually may differ depending on the version of the LaserWriter driver you are using. See the documentation that comes with your Macintosh for details on the LaserWriter functions.
- See the documentation that comes with your operating system for details on the functions of the LaserWriter 8 printer driver.
- The PPD file is not compatible with QuickDrawGX.

---

## Installing the PPD Files

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

# Installing the ColorSync™ Profiles

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## ColorSync™ Profiles

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ColorSync™ profiles make it possible for the printer to print colors of similar intensity to those that appear on your computer display. You must install the ColorSync™ profiles to use this feature.

### Note

- The ColorSync™ profiles conform with the color characteristics defined by the International Color Consortium (ICC).
- Some computer displays may require particular settings to be controlled by ColorSync™. See the documentation that comes with your display for details.

The following profiles are provided for your printer.

### ❖ (Your Printer Name) Transparency

Adjusts the image density to optimize the output for the OHP projection. This profile is selected automatically whenever **[OHP Transparency]** is selected as the paper type.

### ❖ (Your Printer Name) Presentation

Enhances the reproduction of documents that contain text and graphics. This profile is best for printing charts, colored graphs, presentation materials and etc.

### ❖ (Your Printer Name) Solid Color

Use this profile for printing specific colors, logos, etc.

### ❖ (Your Printer Name) Photograph

Use this profile to enhance the reproduction of photos and graphics that include midtones.

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## Installing the ColorSync™ Profiles

---

**1** Start up your Macintosh.

**2** Double-click the icon of your hard disk to open it, and then open the appropriate folder for installing the ColorSync™ profiles.

### Note

- The location of the appropriate folder may differ depending on the version of your operating system. The following are examples:
  - System:Preferences:ColorSync™ Profiles
  - System:ColorSync Profiles



- 3** Insert the CD-ROM into the CD-ROM driver of your Macintosh.  
The icon of the CD-ROM appears.
- 4** Double-click the CD-ROM icon.  
The contents of the CD-ROM are displayed.
- 5** Double-click [ColorSync™ Profiles] folder of the CD-ROM to open it.
- 6** Drag all four files in the folder into the [ColorSync™ Profiles] folder on your Macintosh hard disk.  
The ColorSync™ profiles are installed.
- 7** Drag the CD-ROM icon and drop it into the [Trash] to eject the CD-ROM.  
This completes the ColorSync™ profiles installation.

# Setting Up the PPD Files and Options

## Note

- The printer may not appear in the **[Chooser]** dialog if there are too many printer drivers in your system folder. If this happens, try removing some printer drivers from your system folder. If this does not correct the problem, your printer driver might not be installed correctly. Re-install the printer driver referring to the documentation that comes with your Macintosh.

## 3

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### Setting Up PPD File

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#### Preparation

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

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

#### Note

- If your network has multiple zones, click the name of the zone the printer belongs to in the **[AppleTalk Zones]** list in the lower left side of the **[Chooser]** dialog.

- 4** Select the name of the printer by clicking it, and then click **[Select]**.

The PPD file is set up and the LaserWriter 8 icon appears at the left of the printer name in the list. Next, use the procedure on P.36 "Setting Up Options" to make the option settings, or close the **[Chooser]** dialog.

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### Setting Up Options

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

#### Note

- If your network has multiple zones, click the name of the zone the printer belongs to in the **[AppleTalk Zones]** list in the lower left side of the **[Chooser]** dialog.

**4** Click **[Configure]**.

A list of options appears.

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

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

 **Reference**

For more information on options, see P.37 “*Option Setup Dialog*”.

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

The list of options closes.

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

The **[Chooser]** dialog appears.

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**Option Setup Dialog**


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 **Note**

- Be sure to set up the options correctly. Otherwise, you cannot use the option, even though it is physically installed to the printer.
- If you do not know the amount of memory you need to select here, print a configuration page, which shows how much memory is currently installed to the printer. ⇒ P.55 “*Printing the Configuration Page*”

❖ **Total Printer Memory**

Use this to specify the amount of memory actually installed to the printer. The following settings are available: **[16 MB ]**, **[32 MB ]**, **[48 MB ]**.

❖ **Option Tray**

Use this to specify if the optional tray unit is installed to the printer or not. The following settings are available: **[None]**, **[Tray 2]**.

 **Reference**

For more informations on options, see the printer's “*Operating Instructions*”.

# Setting Up for Printing

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## Making Paper Settings from an Application

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**1** Open the file you want to print.

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

The [LaserWriter 8 Page Setup] dialog opens.

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

 **Note**

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

 **Reference**

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

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

---

 **Small Size Print Area**

This printer supports printing on print area such as “A4 Small” and “Letter Small” when printing from a Macintosh, only with specific versions of the driver. Printing with the LaserWriter 8.4x (or later) driver supports printing on both standard and small print area. However, with the LaserWriter 8.3x (or earlier), the small print area options are not displayed.

With LaserWriter 8.3x (or earlier), select A4, for example, and click [Options] in the [Page Setup] dialog, then use the [Larger Print Area] option. Checking the [Larger Print Area] produces the same printing result as the LaserWriter 8.4x (or later) standard A4 print area. Unchecking the [Larger Print Area] produces the same result as the LaserWriter 8.4x (or later) “A4 Small” print area.

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## Setting Up for Printing from an Application

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**1** Open the file you want to print.

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

The [Printer] dialog opens.

**3** Make sure that your printer is selected in the **[Printer]** box, make the printer settings you want.

 **Note**

- Available settings for Paper Source are: **[Auto Tray Select]**, **[Tray 1]** , **[Tray 2]** (option).

 **Reference**

If you use LaserWriter 8.3x or earlier, see P.39 “*LaserWriter 8.3x or Earlier*”.

If you use LaserWriter 8.4x or later, see P.40 “*LaserWriter 8.4x or Later*”.

**4** After the settings are the way you want, click **[Print]**.

3

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## LaserWriter 8.3x or Earlier

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With the LaserWriter 8.3x or earlier driver, clicking **[Options]** on the **[Printer]** dialog displays the settings specific for this printer.

 **Reference**

For more information on the LaserWriter 8.3x or earlier, see the documentation that comes with your Macintosh.

❖ **Clicking [Option] on the [Printer] dialog shows the following items:**

- **Auto Tray Switching**

Turning on this setting tells the printer to automatically switch to the other tray when it has the same size of paper as the current tray when paper runs out while printing.

- **Color Mode**

Use this to set the output color to **[Black & White]** or **[Color]**.

- **Resolution**

Use this to set the resolution to **[300 dpi]** or **[600 dpi]**.

- **Color Setting**

Use this to set the correction method for the color conversion. The following items are available: **[Off]**, **[Bright]**, **[Super Bright]**, **[Fine]**, **[Super Fine]**.

- **Color Profile**

Use this to set the color rendering dictionary (CRD). The CRD is referred to for color matching, so you should specify the appropriate CRD for the document you are printing. The CRD you specify is also referred to when “Fine” or “Super Fine” is selected for the “Color Setting”. The following items are available: **[Photograph]**, **[Presentation]**, **[Solid Color]**.

- **Toner Saving**

Use this to set Toner Saving on or off.

- ✎ **Note**

- Turning on toner saving can cause the output to become blurred and result in very thin lines not printing at all. In the case of color printing, toner saving can cause colors to be different than expected. Because of this, use toner saving only for proofing and intermediate drafts, but turn it off for final prints when top quality is important.

- **Dithering**

Use this to specify the image mode. The following items are available: **[Photographic]**, **[Text]**.

- **Paper Type**

Use this to specify the paper type. The following items are available: **[Plain Paper]**, **[Thick Paper]**, **[OHP Transparency]**.

- ✎ **Note**

- Selecting **[OHP Transparency]** as the paper type automatically changes the color profile to the OHP settings.

- ✎ **Note**

- Selecting **[Printer's Default]** means selecting the items set with the printer's operation panel.

- 🔍 **Reference**

For more information on Color Setting, Color Profile, and Dithering, see P.51 "RPS2 Menu".

---

## LaserWriter 8.4x or Later

---

The following describes the settings specific for this printer using LaserWriter 8.4x or later.

- 🔍 **Reference**

For more information on the LaserWriter 8.4x or later, see the documentation that comes with your Macintosh.

- ❖ **Selecting [Color Matching] in the [Printer] dialog shows the following items:**

- **Print Color**

You can specify the method and the color conversion settings for printing. The following items are available.

- **[Black and White]**

Select this for monochrome printing.

- **[Color/GrayScale]**

If you select this item, the color profile you select in the **[Color Profile]** of the **[Printer Specific Options]** becomes effective.

- **[ColorSync Color Matching]**  
If you select **[ColorSync Color Matching]**, **[Intent]** and **[Printer Profile]** become active in the same dialog. Select the ColorSync™ profile specific for your printer. Your Macintosh converts the print data from RGB to CMYK data, and sends it to the printer.
- **[PostScript Color Matching]**.  
If you select **[PostScript Color Matching]**, **[Intent]** and **[Printer Profile]** become active in the same dialog. Select the ColorSync™ profile specific for your printer. Your Macintosh prepares the color rendering dictionary (CRD) based on the selected profile and attaches the CRD to the print data. The print data is sent to the printer with the CRD. The printer converts the print data from RGB to CMYK based on the attached CRD.

 **Note**

- The CRD is referred to for color matching, so you should specify the appropriate CRD for the document you are printing. The CRD you specify is also referred to when “Fine” or “Super Fine” is selected for the “Color Setting”.

❖ **Selecting [Error Handling] in the [Printer] dialog shows the following item:**

- **If the cassette is out paper**  
You can use this setting to select auto tray switching, which tells the printer to automatically switch to the other tray when it has the same size paper as the current tray when paper runs out while printing.

❖ **Selecting [Printer Specific Option] in the [Printer] dialog shows the following items:**

- **Color Mode**  
Use this to set the output color to **[Black & White]** or **[Color]**.
- **Resolution**  
Use this to set the resolution to **[300 dpi]** or **[600 dpi]**.
- **Color Setting**  
Use this to specify the correction method for the color conversion. The following items are available: **[Off]**, **[Bright]**, **[Super Bright]**, **[Fine]**, **[Super Fine]**.
- **Color Profile**  
Use this to specify the color rendering dictionary (CRD). The CRD is referred to for color matching, so you should specify the appropriate CRD for the document you are printing. The CRD you specify is also referred to when “Fine” or “Super Fine” is selected for the “Color Setting”. The following items are available: **[Photograph]**, **[Presentation]**, **[Solid Color]**.

 **Note**

- This setting becomes effective when **[Color/GrayScale]** is selected for the **[Printer Color]**.⇒ P.40 “*Selecting [Color Matching] in the [Printer] dialog shows the following items:*”

- **Toner Saving**

Use this to set Toner Saving on or off.

 **Note**

- Turning on toner saving can cause the output to become blurred and result in very thin lines not printing at all. In the case of color printing, toner saving can cause colors to be different than expected. Because of this, use toner saving only for proofing and intermediate drafts, but turn it off for final prints when top quality is important.

- **Dithering**

Use this to specify the image mode. The following items are available: **[Photographic]**, **[Text]**.

- **Paper Type**

Use this to specify the paper type. The following items are available: **[Plain Paper]**, **[Thick Paper]**, **[OHP Transparency]**.

 **Note**

- Selecting **[OHP Transparency]** as the paper type automatically changes the color profile to the OHP settings.

 **Reference**

For more information on Color Setting, Color Profile, and Dithering, see P.51 “RPS2 Menu”.



# Installing Screen Fonts

## About Screen Fonts

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

Screen fonts are 10, 12, 14, 18 and 24 point bitmap fonts. Other sizes make characters appear with ragged edges on your computer screen, but they print with smooth edges.

### Note

- The screen fonts included in the CD-ROM are as follows: AG-Ricoh, HN-Ricoh, CS-Ricoh, BM-Ricoh, ZC-Ricoh, ZD-Ricoh.

## Installing Screen Fonts

**1** Start up your Macintosh.

**2** Insert the CD-ROM into the CD-ROM drive of your Macintosh.

The CD-ROM icon appears.

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

The contents of the CD-ROM are displayed.

**4** Drag the fonts you want to install and drop them on the **[System]** folder icon of your hard disk.

A confirmation dialog appears.

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

The fonts are installed.

**6** Restart your Macintosh.

### Note

- The names of the fonts you have installed appear in the pull-down menu when you select fonts with applications.

### Screen fonts


Screen fonts are bitmap fonts, which are formed by grouping dots together. Because of this, screen fonts appear jagged on your computer screen when you enlarge or reduce them. It is recommended to install as many different sizes as possible for each font to avoid such jagged appearances. Screen fonts are provided for this printer in 10, 12, 14, 18 and 24 point sizes.



# 4. Appendix

## Troubleshooting

OS	Status	Possible Causes and Solutions
Win	When the printer is connected to the network, data is being received by the printer, but does not print.	<ul style="list-style-type: none"><li>❖ <b>Windows 95/98</b> On the <b>[PostScript]</b> tab, click <b>[Advanced]</b> and then uncheck both <b>[Send CTRL+D after job]</b> and <b>[Send CTRL+D before job]</b>. ⇒ P.18 "<i>[PostScript] Tab</i>"</li><li>❖ <b>Windows NT4.0</b> Open the <b>[Advanced]</b> tab of the Default Document Properties. Under <b>[PostScript Options]</b>, select <b>[No]</b> for both <b>[Send CTRL-D After Each Job]</b> and <b>[Send CTRL-D Before Each Job]</b>. ⇒ P.26 "<i>[Advanced] Tab</i>"</li></ul>
Win/Mac	Options cannot be selected with the printer driver even though they are physically installed.	<p>The options are not set up correctly.</p> <ul style="list-style-type: none"><li>❖ <b>Windows 95/98</b> Use the <b>[Installable Options]</b> on the <b>[Device Options]</b> tab to correctly set up the options. ⇒ P.17 "<i>[Device Options] Tab</i>"</li><li>❖ <b>Windows NT4.0</b> Use the <b>[Installable Options]</b> on the <b>[Device Settings]</b> tab to correctly set up the options. ⇒ P.23 "<i>[Device Settings] Tab</i>"</li><li>❖ <b>Macintosh</b> Use the Apple menu to open <b>[Chooser]</b> and correctly set up the options. ⇒ P.36 "<i>Setting Up Options</i>"</li></ul>
Mac	The printer does not appear on the <b>[Chooser]</b> .	EtherTalk may be disabled as the protocol with the printer's operating panel. Enable EtherTalk. For more information, see the printer's "Operating Instructions".
Win	Data is cleared before printing is completed.	When the printer runs out of paper in the RPS2 mode, it waits for the specified job timeout period for paper to be loaded. The data is cleared when the job timeout period is exceeded. Set the longer job timeout period. ⇒ P.51 " <i>RPS2 Menu</i> "

OS	Status	Possible Causes and Solutions
Win/Mac	Printing will not start even though the <b>Data In</b> indicator blinks or lights up.	<p>A PostScript error might occur if there is not enough memory in the printer, or there are errors in the print data sent to the printer.</p> <ul style="list-style-type: none"> <li>• In some cases, increasing the memory may solve this problem. Install an optional memory unit (SIMM). For more information on the memory, see P.57 "<i>Printer Memory and VM Area</i>".</li> </ul>
		<p>The print job might be reset. Do the following.</p> <ul style="list-style-type: none"> <li>• Confirm that you have selected the correct printer driver. Try printing again.</li> <li>• If you cannot print with the correct printer driver, there is not enough memory in the printer. Increase memory by installing an optional memory unit (SIMM).</li> </ul>
Win/Mac	Paper does not feed from the proper tray.	<p>Printer driver settings are wrong. Select the correct tray.</p> <p> <b>Reference</b></p> <p>Windows 95/98: ⇒ P.15 "<i>[Paper] Tab</i>"</p> <p>Windows NT4.0: ⇒ P.25 "<i>[Page Setup] Tab</i>"</p> <p>Macintosh: ⇒ P.38 "<i>Setting Up for Printing from an Application</i>"</p>

OS	Status	Possible Causes and Solutions
Win/Mac	Overall printing is blurred or the image density is too light.	<p>Turning on <b>[Toner Saving]</b> can cause printing to be blurred and fine lines not to be printed. It can also affect colors during color printing.</p> <ul style="list-style-type: none"> <li>❖ <b>Windows 95/98</b> On the <b>[Device Options]</b> tab, change the Toner Saving setting. ⇒ P.17 "[Device Options] Tab"</li> <li>❖ <b>Windows NT4.0</b> Use the <b>[Advanced]</b> tab change the Toner Saving settings. ⇒ P.26 "[Advanced] Tab"</li> <li>❖ <b>Macintosh</b> <ul style="list-style-type: none"> <li>• <b>LaserWriter 8.3x or earlier</b> Use the <b>[Print Options]</b> dialog. ⇒ P.39 "<i>LaserWriter 8.3x or Earlier</i>"</li> <li>• <b>LaserWriter 8.4x or later</b> Use the <b>[Print Specific Options]</b> on the <b>[Printer]</b> dialog. ⇒ P.40 "<i>LaserWriter 8.4x or Later</i>"</li> </ul> </li> </ul>

OS	Status	Possible Causes and Solutions
Win/Mac	<p>The following message is printed when there is not enough memory in the printer to perform printing.</p> <p>“There is not enough memory in your printer to print this page. Change the resolution to 300 dpi in the printer driver and try again. For details, please refer to the troubleshooting section in your manual.”</p>	<p>An error message is frequently printed.</p> <ul style="list-style-type: none"> <li>❖ <b>Increase memory.</b> Install an optional memory unit (SIMM).</li> <li>❖ <b>Turn on “Image Memory”.</b> Turning on the “Image Memory” can cause printing to take a long time. See the printer’s “Operating Instructions” that comes with your printer for details on the “Image Memory”.</li> </ul>
		<p>An error message is occasionally printed.</p> <ul style="list-style-type: none"> <li>❖ <b>Increase memory.</b> Install an optional memory unit (SIMM).</li> <li>❖ <b>Reduce the resolution.</b> <ul style="list-style-type: none"> <li>• <b>Windows 95/98</b> On the <b>[Graphic]</b> tab, change the resolution setting to <b>[300 dpi]</b>. ⇒ P.16 “<i>[Graphics] Tab</i>”</li> <li>• <b>Windows NT4.0</b> On the <b>[Advanced]</b> tab, change the <b>[Resolution]</b> setting to <b>[300 dpi]</b>. ⇒ P.26 “<i>[Advanced] Tab</i>”</li> <li>• <b>Macintosh</b> <b>LaserWriter 8.3x or earlier</b> On the <b>[Print Options]</b> dialog, change the <b>[Resolution]</b> setting to <b>[300 dpi]</b>. ⇒ P.39 “<i>LaserWriter 8.3x or Earlier</i>” <b>LaserWriter 8.4x or later</b> In the <b>[Printer Specific Options]</b> of the <b>[Print]</b> dialog, change the <b>[Resolution]</b> setting to <b>[300 dpi]</b>.</li> </ul> </li> </ul>

 **Note**

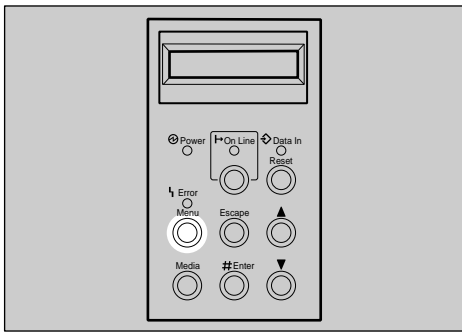
- ❑ If you cannot solve the problem by taking the above actions, contact your sales or service representative.

# Making Printer Settings with the Operation Panel

## Selecting the Printer Language

The printer language is normally set to the IPDL-C mode. You can change the printer language to the RPS2 (RICOH-SCRIPT2) mode using the following procedure.

- 1 Press **[Menu]**.

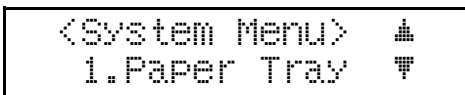


The "Printer" menu appears.

- 2 Use **[▲]****[▼]** to display the "System Menu."

- 3 Press **[Enter]**.

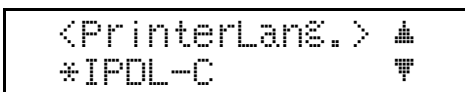
The following message appears.



- 4 Use **[▲]****[▼]** to display "9. PrinterLang."

- 5 Press **[Enter]**.

The following message appears on the panel display.



- 6 Use **[▲]****[▼]** to display the "RPS2" mode.

- 7 Press **[Enter]**.

- 8 Press **[On Line]** to return to the normal display.

- 9** Press **[On Line]** to enter the off-line mode.

The On Line indicator turns off.

- 10** Press **[Reset]**.

The printer resets and enters the RPS2 mode.

---

## Setting Menus

---

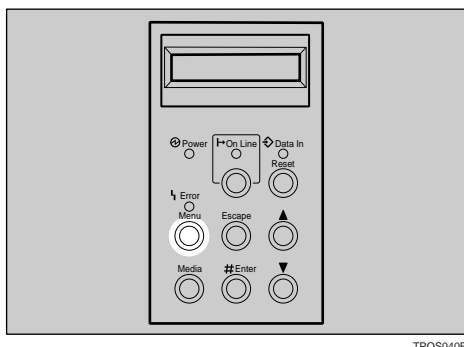
### Preparation

Before performing the following procedure, make sure that the printer language is set to the RPS2 mode.

- 1** Make sure that the printer language is set to the RPS2 mode. Check if the following message appears on the panel display.

```
RPS2
Ready
```

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



The following message appears on the panel display.

```
<Menu>
RPS2 Menu
```

- 3** Make sure that "RPS2 Menu" appears on the display, and then press **[Enter]**.

The following message appears on the panel display.

```
<RPS2 Menu>
1. Color Mode
```



- 4** Use **[▲][▼]** to display the menu you want to change, and then press **[Enter]**.

```

<RPS2 Menu> ▲
 1.Resolution ▼
  
```

The current setting of the selected menu appears on the panel display.

```

<2.Resolution> ▲
 *600 dpi ▼
  
```

 **Note**

- An asterisk (\*) is located to the left of the menu item's current setting.

- 5** Use **[▲][▼]** to select the setting you want, and press **[Enter]**.

The setting you have selected is registered.

- 6** Repeat steps **3** and **4** to change the settings of other items.

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

The settings are registered and the printer returns to the normal display screen.

 **Reference**

You can check the current setting by printing a configuration page. ⇒ P.55  
*"Printing the Configuration Page"*

---

## RPS2 Menu

---

Settings that you can specify are described below. Settings made with the printer driver normally take priority, except when a printer driver setting is set to use the printer's settings.

❖ **Color Mode**

Use this to select either monochrome or color printing.

❖ **Resolution**

Use this to set the resolution to 300dpi or 600dpi.

### ❖ Color Set (Color Setting)

Use this to specify the correction method used for converting the RGB data to CMYK data.

- **Bright**

Select this setting to generate without loss of pure black and perform CMYK conversion with enhanced saturation.

- **Super Bright**

Select this setting to generate black slightly weaker than “Bright” and perform CMYK conversion, so colors are somewhat brighter. This setting is best for printing presentation materials.

- **Fine**

Select this setting to perform color matching based on the printer's built-in color rendering dictionaries, and perform CMYK conversion. It makes it possible to print colors that are close to the displayed colors on the computer screen.

The color rendering dictionaries refer to the contents specified by the color profile. This setting is useful when the application and printer driver do not support the color matching features.

- **Super Fine**

Select this setting to produce an image that is somewhat brighter than “Fine”.

### ❖ ColorProfile

Use this setting to specify the color rendering dictionary (CRD). The CRD is referred to for color matching, so you should specify the appropriate CRD for the document you are printing. The CRD you specify is also referred to when “Fine” or “Super Fine” is selected for the “Color Setting”.

#### Note

When selecting the **[OHP Transparency]** as the paper type, the CRD best for printing an OHP transparency is automatically selected.

- **Photograph**

Use this setting to enhance the reproduction of photos and graphics that include midtones.

- **Presentation**

Use this setting to enhance the reproduction of documents that contain text and graphics. This CRD is best for printing colored charts, graphs, presentation materials and etc. If you use this CRD for printing photographs, color gradations might not be reproduced well.

- **Solid Color**

Use this setting to print specific colors, logos and etc.

### ❖ Toner Saving

Use this to set Toner Saving on or off.

**❖ Dithering**

Use this to specify the image mode that is best for the type of data you are printing.

- **Photographic**  
Select this setting to print photographs.
- **Text**  
Select this setting to print text.

**❖ Paper Type**

Specify the paper type for printing as: Plain Paper, Thick Paper, or OHP. Selecting OHP transparency as the paper type automatically changes the color profile to OHP settings.

**❖ Auto Tray SW (Auto Tray Switch)**

Use this setting to tell the printer to automatically switch to the other tray when it has the same size paper as the current tray when paper runs out while printing.

To use this feature, the optional tray unit should be installed to your printer, and paper having the same size and direction should be loaded in both the standard and optional trays.

**❖ Job Timeout**

Use this setting to specify how long the printer waits before terminating a print job when the printer doesn't receive the end of the current print job. You can specify a time ranging from 0 to 999 seconds, or you can turn this feature off (no time limit).

**❖ I/O Timeout**

Use this setting to specify how long the printer waits for more print data before ending its wait condition for data and terminating a job. The job is automatically cancelled if no data is received for the specified time. You can specify a time ranging from 0 to 999 seconds, or you can turn this feature off (no time limit).

**❖ Feed Timeout**

Use this setting to specify how long the printer waits for the correct paper size loaded, when paper runs out while printing. The job is printed with the paper currently loaded if the correct size is not loaded within the specified time.

You can specify a time ranging from 0 to 999 seconds, or you can turn this feature off.

**❖ Print Errors**

Use this setting to specify if an error report should be printed when a PostScript error occurs while printing.

- **Off**  
No error report is printed when an error occurs.
- **On**  
An error report is printed when an error occurs. It uses some of the VM area to turn this feature on.

### ❖ KTalk Mode

This setting is not effective.

### ❖ Parallel IF1

Use this setting to specify the parallel interface timing. When “System Default” is selected, the setting in the “System Menu” is used.

### ❖ Parallel IF 2

Use this setting to use a second parallel interface by installing the optional parallel interface board. You can specify the timing of the second parallel interface. When “System Default” is selected, the setting in the “System Menu” is used.

### ⚠ Important

Do not use “ACK Outside” setting.

4

## RPS2 Menu Table

Item	Available settings				
1. Color Mode	Black & White	<i>Color</i>			
2. Resolution	300 dpi	<i>600dpi</i>			
3. Color Set (Color Setting)	<i>Off</i>	Bright	Super Bright	Fine	Super Fine
4. Color Profile	Photograph	<i>Presentation</i>	Solid Color		
5. Toner Saving	<i>Off</i>	On			
6. Dithering	<i>Photographic</i>	Text			
7. Paper Type	<i>Plain Paper</i>	OHP	Thick Paper		
A. Auto Tray SW	<i>Off</i>	On			
B. Job Timeout	<i>0 (Off)</i>	0 – 999 seconds in 1 second step			
C. I/O Timeout	<i>300 seconds</i>	0 (Off)	0 – 999 seconds in 1 second step		
D. Feed Timeout	<i>60 seconds</i>	0 (Off)	0 – 999 seconds in 1 second step		
E. Print Errors	<i>Off</i>	On			
F. KTalk Mode *1	<i>7.5Compat</i>	7.1Compat			
G. Parallel IF1	ACK Inside	ACK Outside	<i>System Default</i>		
H. Parallel IF2 *2	ACK Inside	ACK Outside	<i>System Default</i>		

\*1 The setting is not effective.

\*2 Available only when the optional parallel interface board is installed.

### 📌 Note

*Italic settings* are the default settings.

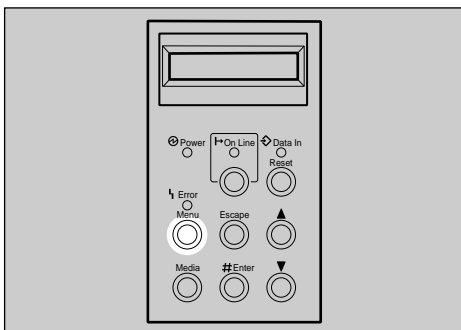
## Printing the Configuration Page

Use the following procedure to print a configuration page which shows the current printer settings.

- 1 Make sure that the printer language is set to the RPS2 mode. Check if the following message appears on the panel display.

```
RPS2
Ready
```

- 2 Press **[Menu]**.



- 3 Use **[▲]****[▼]** to display "List Print".

- 4 Press **[Enter]**.

The following message appears on the panel display.

```
<List Print> ▲
  Config. Page ▼
```

- 5 Confirm if "Config. Page" is displayed, and then press **[Enter]**.

The following message appears on the panel display.

```
<Config. Page>
  Press # key
```

- 6 Press **[Enter]**.

The configuration page will be printed.

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

The printer returns to the normal display screen.

---

## Interpreting the Configuration Page

---

**❖ Reference**

Shows the printer system version, ID, etc. You can also see the status of the paper tray and the total number of pages printed to date.

**❖ Tray Status**

Shows the status of the paper trays. “Tray 2” is shown when the optional tray unit is installed to the printer.

**❖ RPS2 Status**

Shows the current settings for the RPS2 mode.

**❖ Memory Status**

Shows the amount of printer memory, VM area, etc.

**❖ Font Status**

This is not used for this printer.

**❖ Installed Fonts**

Shows the fonts installed on the printer.

**❖ Interface Status**

Shows if the optional parallel interface board or network interface board is installed to the printer.

**❖ Network & TCP/IP Status (optional network interface board required)**

Shows the network and TCP/IP items and their settings.

**❖ NetWare Status (optional network interface board required)**

Shows the NetWare items and their settings.

**❖ NetBEUI Status (optional network interface board required)**

NetBEUI is not supported by this printer.

**❖ AppleTalk Status (optional network interface board required)**

Shows the AppleTalk items and their settings.

# Printer Memory and VM Area

The following table shows the relationship between the printer memory capacity and the VM capacity.

Printer Memory	VM (virtual memory) Capacity
16MB	Approximately 2.8 MB
32MB	Approximately 9.5 MB
48MB	Approximately 11.6 MB

## Note

- ❑ The “VM” of the PostScript printer is the memory area outside of the page memory and program area. If the data sent from the computer is very complex, printing is impossible because of insufficient printer memory. This is called a “VM error”.
- ❑ In some cases, printing is impossible even though a VM error has not occurred. ⇒ P.45 “*Troubleshooting*”

# Precautions for RICOH-SCRIPT2

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## Differences between RICOH-SCRIPT2 and “PostScript® Language Reference Manual, Second Edition”

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The differences between RICOH-SCRIPT2 and PostScript Level 2 as defined in the “PostScript® Language Reference Manual, Second Edition” from Adobe Systems Incorporated are described below.

- RICOH-SCRIPT2 does not support the user path cache function, therefore the print processing speed may be reduced when this function is called with any PostScript program. This function originated in Display PostScript, and it is not used by most printer drivers.
- RICOH-SCRIPT2 doesn't support automatic garbage collection. Instead, a similar routine is implemented by the printer drivers with the save/restore operators. Not having this function doesn't create any problems.

---

## Other Precautions

---

- A VM error can sometimes be solved by increasing the printer memory.
- Because of the differences in image, graphics, and clipping rules, the printing result produced by any single draw operator might be out of place by one dot.
- The memory area used for downloading fonts will not be free. A VM error might occur when downloading fonts with insufficient VM memory. In this case, the print job may be canceled. However, this printer will re-start RICOH-SCRIPT2 automatically.
- Lasertalk version 1.3 is not supported.
- Built-in font metric data may be different from the PostScript fonts.
- Type 1 fonts conform to the Adobe Type 1 font format (1.1) standard. However, some Type 1 fonts with outline transposition (self-interference) may not print correctly.
- When printing text without using font hint data downloaded from the application, enlarged or reduced fonts may print incorrectly.
- When using the PostScript printer driver with Windows applications, the printed result might not match the preview on the computer screen.



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**RICOH-SCRIPT2 Type204 (Option) OPERATING INSTRUCTIONS**