EPSON®

EPSON STYLUS® RIP

User's Guide

Printed on recycled paper

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CPD-8323R1
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Introduction

The EPSON Stylus® RIP software lets you use your EPSON Stylus Color or EPSON Stylus Photo ink jet printer as a PostScript® 3 (Macintosh®, Windows® 2000, and Windows NT®) and Level 2 (Windows 95 and 98) compatible printer. It reads the Adobe® PostScript files automatically created by the EPSON Stylus RIP printer driver, seamlessly converts them into raster images, and automatically prints them on your printer. You can use the EPSON Stylus RIP with both Macintosh and Windows systems, in standalone or networked configurations.

Adobe PostScript is the industry standard for high-quality graphic output. All the elements in a document—including text, graphics, and other images—are processed and reproduced using PostScript code. Then, when you print from an application such as QuarkXPress,® the RIP software creates a raster image from the PostScript code and sends it to your printer.

Do You Need PostScript?

In many cases, you may not need the ability to print in PostScript, and for these occasions you should use the standard, non-PostScript driver that comes with your printer. Using the standard driver is also a good way to ensure that your computer and printer are connected and working properly, so make sure you install the non-PostScript EPSON driver following the instructions in your printer's setup documentation.

Here's what you can use the EPSON Stylus RIP for:

- Printing documents with placed or imported EPS images
- Printing from complex PostScript-based drawing and publishing applications like Adobe Illustrator,® Macromedia® Freehand,® Adobe PageMaker,® QuarkXPress, and CorelDRAW™
- Matching PANTONE® spot colors

For all other printing applications, especially photography, use the standard, non-PostScript EPSON driver. In many cases, you will get better performance with the standard driver than with the EPSON Stylus RIP.

Special Features

To make the most of your printer's photo-quality output, the EPSON Stylus RIP software includes these special features:

- EPSON error diffusion software, the same high-quality AcuPhoto Halftoning™ technology used in EPSON's non-PostScript printer drivers
- PANTONE professional color palette files—calibrated for your EPSON Stylus Color or EPSON Stylus Photo printer using a variety of media at various resolutions—to give you PANTONE colors when you use PANTONE licensed applications
- Support for ColorSync® 2.x on the Macintosh and Image Color Matching (ICM) for Windows through International Color Consortium® (ICC) profiles
- Press Simulation, which adjusts your EPSON printer's color gamut to more closely match the output of SWOP-coated printing devices

Macintosh System Requirements

To use EPSON Stylus RIP with a Macintosh in either a standalone or network environment as a print server, your system should meet the following minimum requirements:

- Power Macintosh,® iMac™ series, or Power Macintosh G3 or G4 series
- At least 16MB of available RAM for the EPSON Stylus RIP software (20MB or more is recommended), in addition to the RAM needed by your operating system and other applications
- At least 52MB of free hard disk space to install the software and at least 150MB of free hard disk space for processing large files
- Macintosh Operating System 8.5.1 or later
- CD-ROM drive
- Serial, Ethernet, or USB connection to the printer. The USB connection can be either a built-in USB port or the EPSON USB Adapter kit (part number C-USB-PK4).

To set up a Macintosh as a client on a network using the EPSON Stylus RIP, your system must have the following minimum configuration:

- Macintosh Centris,® Macintosh Quadra,® Performa,® Power Macintosh, iMac series, or Power Macintosh G3 or G4 series
- Ethernet™ AppleTalk® connection with the Macintosh set up as the EPSON Stylus RIP print server
- 8MB RAM
- At least 2MB of free hard disk space to install the software and at least 150MB of free hard disk space for processing large files
- Macintosh Operating System 7.6.1 or later
- CD-ROM drive

Windows System Requirements

To use the EPSON Stylus RIP in either a standalone or peer-to-peer network environment, your system should include:

- IBM®-compatible PC with 486 or higher processor (Pentium® 133 MHz or higher recommended)
- Microsoft Windows 95/98, Windows 2000 or Windows NT 4.0
- At least 16MB of RAM (32MB or more recommended)
- At least 50MB of free hard disk space to install the software and at least 150MB of free hard disk space for processing files (more for large files)
- CD-ROM drive
- An available parallel port configured as LPT1

You can print with the EPSON Stylus RIP on a peer-to-peer Windows network by using file sharing, with the printer connected to the print server's parallel port. In this networked environment, you install the EPSON Stylus RIP software on the print server only. Users printing from applications on client computers need to direct their PostScript output to a file on the shared folder on the print server. See page 3-5 for instructions.

How To Use Your Manuals

Before you install the RIP, make sure you set up your printer and install the standard EPSON non-PostScript driver that came with your printer, following the instructions in your printer's documentation. Also, refer to your EPSON printer's documentation for instructions on using and maintaining your printer.

If you're familiar with software PostScript interpreters, you can use the *EPSON Stylus RIP Quick Start Guide* to get started with the RIP.

For more information about installing and using the software, refer to this *User's Guide,* which contains the following:

Chapter 1 tells you how to install EPSON Stylus RIP on Macintosh computers and AppleTalk networks.

Chapter 2 explains how to print with the EPSON Stylus RIP software on Macintosh computers.

Chapter 3 tells you how to install EPSON Stylus RIP on Windows computers and set up client computers on networks.

Chapter 4 explains how to print with the EPSON Stylus RIP software on Windows computers.

Chapter 5 gives solutions to possible problems you may have.

An **Index** is included at the end of the book.

Cautions, Notes, and Tips

You'll find this information throughout your manual:

Cautions must be observed to avoid damage to your equipment or to ensure proper operation of your software.

Notes contain important information about your software or hardware.

Tips contain additional hints for printing with EPSON Stylus RIP.

Where To Get Help

EPSON provides technical assistance through electronic support services and automated telephone services 24 hours a day. The following table lists the contact information:

Service	Access
World Wide Web	From the Internet, you can reach EPSON Support at **http://support.epson.com**. At this site, you can download drivers and other files, look at documentation such as product brochures and user manuals, and access troubleshooting information.
EPSON Internet FTP Site	If you have Internet FTP capability, use your Web browser (or other software for FTP downloading) to log onto **ftp.epson.com** with the user name **anonymous** and your e-mail address as the password.
EPSON E-mail Technical Support	To receive technical advice through e-mail, go to **http://support.epson.com** and complete the form under the troubleshooting tab, as requested.
Automated Telephone Services	A variety of automated help services are available 24 hours a day, seven days a week. To use these services, you must have a touch tone telephone and call **(800) 922-8911**.

To speak to a technical support representative, please refer to your printer's documentation for your printer's specific technical support telephone number.

Before you call, please have the following information ready:

- Product name (EPSON Stylus RIP)
- Product serial number (located on disk sleeve)
- Proof and date of purchase (such as a store receipt)
- Printer model
- Computer configuration
- Description of the problem

You can purchase ink cartridges, paper, manuals, and accessories from EPSON at **(800) 873-7766** or visit the EPSON Store™ at **www.epson.com** (U.S. sales only). In Canada, please call **(800) 807-7766** for dealer referral.

1 Installing EPSON Stylus RIP for Macintosh

This chapter provides instructions for installing the EPSON Stylus RIP software on a standalone Macintosh or the print server Macintosh in a network. You can then install the PostScript printer driver and PPD (PostScript Printer Description) on any client Macintosh computers on your network.

Here's what you need to do to install EPSON Stylus RIP:

- Check the printer's setup and operation.
- Determine your system/network configuration.
- Install the EPSON Stylus RIP server software on your standalone Macintosh or on the print server in a network.
- Install the EPSON Stylus RIP client software on any client Macintosh computers in your network.
- If you need to match PANTONE colors, be sure to read the instructions on page 1-10 for using your printer's PANTONE color table.

Checking the Printer

Before you install the EPSON Stylus RIP software, follow the instructions in your printer's documentation to prepare your printer for use. Make sure you perform the following steps:

- If you'll be using the printer in a "typical" network configuration (described in the following section), install an optional network interface card in the printer. See your printer's documentation for instructions. (Not every printer has a network interface card option.)
- Load paper, install ink cartridges, and allow your printer to complete its entire ink charging cycle.
- Run a printer self test to make sure it operates properly.
- Connect the printer directly to your Macintosh or to the network.
- Install the standard non-PostScript EPSON driver and utilities that came with your printer.
- Send a sample print job with the standard printer driver to make sure the interface connection and cable are secure and the software is installed correctly.

Once the printer is set up and **tested fully**, you're ready to install the EPSON Stylus RIP software on your system.

Determining Your Configuration

You can connect your printer and use EPSON Stylus RIP in three different configurations:

- Standalone
- Direct connection network
- Typical network

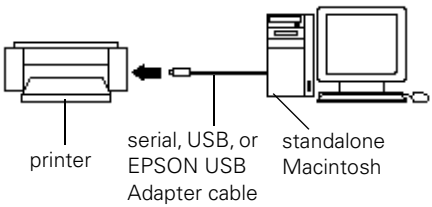
The standalone or direct connection network configurations are recommended for best performance.

Note:
AppleTalk must be active in order to use EPSON Stylus RIP in any configuration, including a standalone system.

Standalone Configuration

In a standalone system (shown below), your printer is connected directly to your Macintosh by a standard serial, USB, or EPSON USB Adapter cable, as shown below:

AppleTalk control panel set to Remote Only

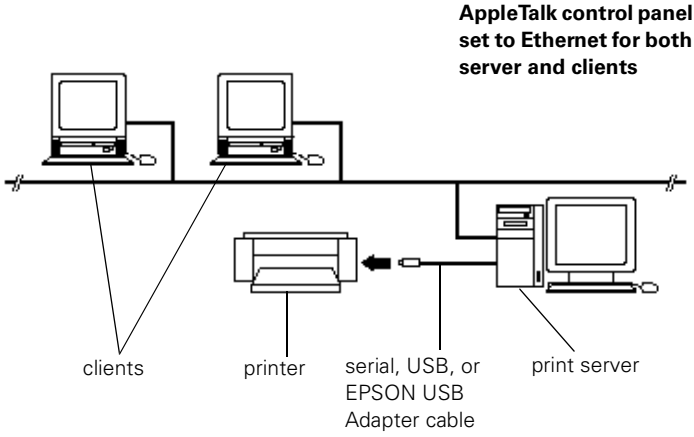


In this configuration, you install the EPSON Stylus RIP Server software on your Macintosh system, which then acts as both server and client in your printing process.

Direct Connection Network Configuration

In a direct connection configuration (shown below), the Macintosh that is connected to the printer acts as the print server, with the EPSON Stylus RIP Server software installed on it. The printer is directly connected to the print server's modem, printer, or USB port.

The other computers in the network are "clients" of the server, with the EPSON Stylus RIP client software installed on them.

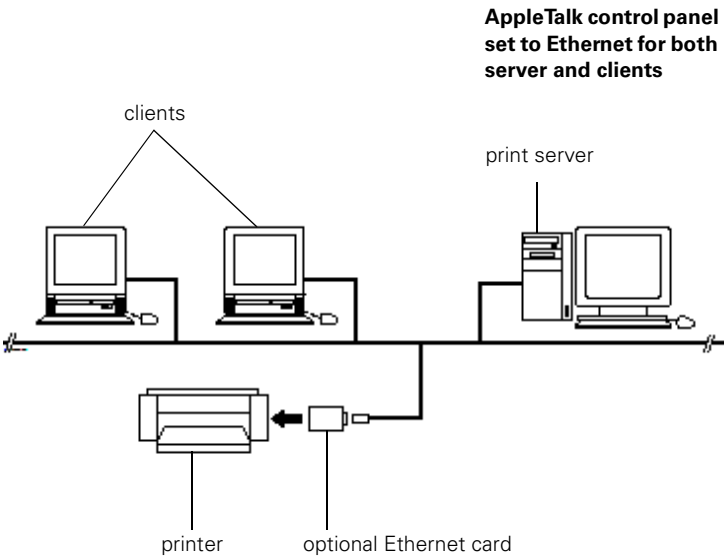


In this configuration, the client Macintosh computers send print jobs to the print server, which puts the job in a print queue and then sends it to the printer. This speeds up transmission of the job because it is sent over the network only once, offering you the best EPSON Stylus RIP performance.

Note:
It is best to choose a Power Macintosh with a fast processor and ample RAM as your print server, allowing you to devote its resources to printing the data sent over the network. LocalTalk networks are not recommended for use with the EPSON Stylus RIP.

Typical Network Configuration

In a typical network configuration, the print server and all client Macintosh computers are connected to the printer only via an Ethernet connection on an optional network interface card, with the EPSON Stylus RIP software (server or client version) installed on every computer.



In this configuration, the print job is sent over the network twice before it prints: once from the client to the print server and once from the print server to the printer.

Note:
You may experience problems if you have more than one printer on the network in a "mixed" configuration. For example, if you have one EPSON Stylus series printer connected to a serial port and set up as remote only and another connected by an Ethernet card on the same network, you won't be able to set the Network/AppleTalk control panel to Remote Only and Ethernet at the same time.

Installing EPSON Stylus RIP on a Standalone or Print Server Macintosh

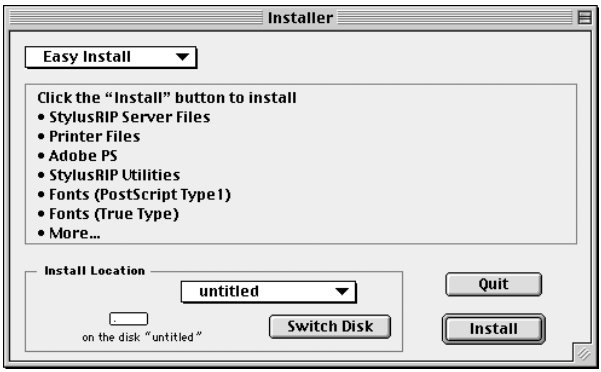
Before you install the EPSON Stylus RIP software, disable all anti-virus or disk utility extensions, and shut down any applications that are running. Then follow these steps:

1. Insert the EPSON Stylus RIP CD-ROM in your drive. If necessary, double-click the Stylus RIP CD-ROM icon to open its window.

2. Double-click the Installer icon in the Stylus RIP window.

3. At the title screen, click Continue.

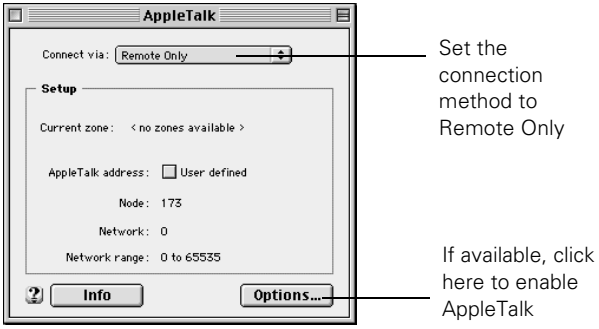
4. From the Installer dialog box, select Easy Install, specify an Install Location to install the RIP into, and click Install.



5. At the end of the installation, click the Restart button when prompted to restart your system. If you aren't prompted to restart your computer, manually restart it.

6. Once your system has restarted, open the Apple menu and choose Control Panels > AppleTalk.

7. If you're using a serial or USB connection, choose Remote Only from the Connect via pop-up menu. If available, click the Options button and make AppleTalk Active.



8. Close the AppleTalk control panel.

The EPSON Stylus RIP software is installed on your hard disk. If your computer is not connected to a network, you can skip ahead to the next chapter to start printing via the RIP. If you have client computers that will need to print to the RIP, continue with the next section.

Caution:
Once you've installed the EPSON Stylus RIP software, don't move, modify, or delete any of the files or folders that were created on your hard disk, or the software may not work.

Installing EPSON Stylus RIP on a Client Macintosh

Once you've installed the EPSON Stylus RIP Server software on your print server, you can install the Client software on the client Macintosh computer(s) in your network.

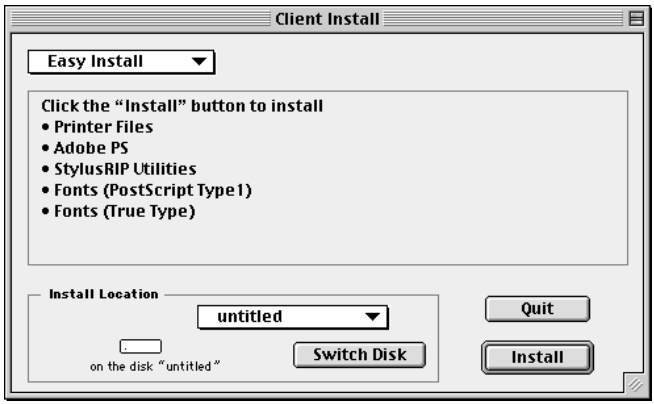
Before you install the EPSON Stylus RIP Client software, disable all anti-virus or disk utility extensions, and shut down any applications that are running. Then, follow these steps:

1. Insert the EPSON Stylus RIP CD-ROM in your drive. If necessary, double-click the Stylus RIP CD-ROM icon to open its window.

2. Double-click the Client Install icon in the Stylus RIP window.

3. At the title screen, click Continue.

4. From the Client Install dialog box, select Easy Install, specify an Install Location to install the RIP into, and click Install.



5. Follow the on-screen instructions, then click Quit when prompted to finish the installation.

6. Repeat steps 1 through 5 for each client Macintosh that will print with EPSON Stylus RIP over the network.

Caution:
Once you've installed the EPSON Stylus RIP Client software, don't move, modify, or delete any of the files or folders that were created on your hard disk, or the software may not work.

Color Matching

During the EPSON Stylus RIP installation, ICC (International Color Consortium) profiles for ColorSync 2.x support, press simulation profiles, and the PANTONE color table for your printer are automatically installed on your system. These tools allow your printer to work with the other components of your color management system.

Press Simulations

The EPSON Stylus RIP press simulation profiles allow you to output CMYK-defined colors that approximate SWOP and other standard colors on your EPSON printer. When simulating a press run with the Press Simulation feature, your printer's wide color gamut will be reduced to more closely simulate the gamut of SWOP and other printing devices.

However, your EPSON printer is designed for color comping only, and not color proofing. Even with the press simulation feature, true color accuracy is not possible with your EPSON printer and the RIP.

ColorSync 2.x Support

For applications that support ColorSync 2.x, use the ICC profiles that are included with the EPSON Stylus RIP software.

When you install the RIP software, these profiles should automatically be copied to the ColorSync profiles folder in your Preferences folder within the System folder. If the profiles are not copied automatically, you may need to copy them yourself.

Note:
It is recommended that you install a ColorSync profile for all your input/output devices (monitor, scanner, etc.) to achieve successful color matching.

PANTONE Color Support

PANTONE professional color palette files for your printer are included with the EPSON Stylus RIP software. These files can be read directly into PANTONE-licensed applications so you can have printer calibrated versions of PANTONE colors. The colors are calibrated to use the RIP's error diffusion halftoning and EPSON coated paper and photo-quality media.

To install PANTONE color tables for your printer, open the PANTONE folder in the Stylus RIP Utilities folder on your hard drive. Double-click the icon that corresponds to your printer, and follow the prompts to install your printer's PANTONE color table.

For application-specific usage instructions of your PANTONE color table, refer to the "HowToMac" PDF file that is installed with the PANTONE color table. Use the Find command in the Finder's File menu to locate the file on your hard drive.

Every attempt is made to accurately match color values as closely as possible to the PANTONE spot colors. However, no color matching scheme can guarantee an exact match, due to environmental and other characteristics that affect how we perceive color.

For example, a color that appears to be an exact match under incandescent room lighting may appear differently under fluorescent lighting conditions. While many of these factors are accounted for in the process of developing the colors, an exact match is not possible under all visual conditions.

Note:
If Pantone Profiles are not listed for your printer, please visit EPSON'S web site to download them at http://www.epson.com/.

2 Printing with EPSON Stylus RIP for Macintosh

Once you've installed the EPSON Stylus RIP software on your Macintosh computer(s), you need to set up your server or standalone Macintosh before you can start printing PostScript documents. Once you've set it up, you can print with the RIP by starting the Stylus RIP Server application, selecting the RIP in the Chooser, printing from your application, and then letting the RIP software process your print job and send it to your printer.

You can also use the Stylus RIP window to monitor your print jobs, manage the print queue, or run a batch of print jobs at the same time.

Here's what this chapter covers:

- Setting up and starting the EPSON Stylus RIP Server software
- Printing from an application
- Printing over a network
- Drag and drop printing
- Managing print jobs

Setting Up the EPSON Stylus RIP Server

Follow the steps below to set up the EPSON Stylus RIP Server software the first time you use it—you'll need to do this for both standalone and network configurations.

1. Make sure the Stylus RIP Server application has at least 20MB of RAM available. Open the Stylus RIP folder on your hard disk and highlight the StylusRIP Server icon. Choose Get Info from the File menu, then set the following Memory Requirements:

   - Preferred Size 20000K
   - Minimum Size 16000K

Note:
If you are not running your Macintosh with virtual memory turned on, increase each of the Memory Requirements by 4000K.

2. Disable all desktop printing extensions.

3. Turn on the printer and wait to make sure its power light comes on and the light is not flashing. Make sure the printer is properly connected to your Macintosh or network.

4. Start the Stylus RIP Server application by double-clicking the StylusRIP Server icon.

5. The first time you run the server software, a dialog box asks you to select your port or your printer name. Select the appropriate modem, printer, or USB port if you are connected to the printer via a serial, USB, or EPSON USB Adapter cable.

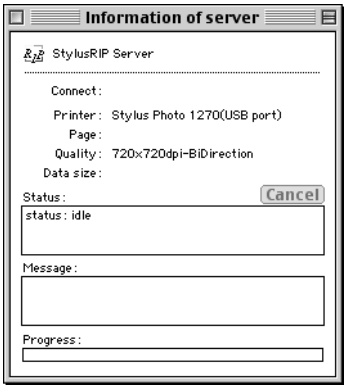
If you connected the printer via a network interface card and use AppleTalk zones, select the printer's zone and then select the printer name. Or use the **Scan** button to locate the printer on your network.

Click **OK** once you select the printer and port.

Note:
If you change your printer connection later, you must reconfigure EPSON Stylus RIP for your new port. To do so, start EPSON Stylus RIP and select **Printer Connection** from the PostScript menu. Follow the on-screen instructions.

6. If the printer has not been previously licensed for PostScript, or this is the first time you've run the Stylus RIP Server, a dialog box prompts you for your EPSON Stylus RIP license key. (The license is printed on your CD-ROM sleeve.) Type it exactly as shown and click **OK**.

   The Stylus RIP Server software searches for the printer, checks printer settings and licenses, and then displays the Stylus RIP server window. Leave the window open.

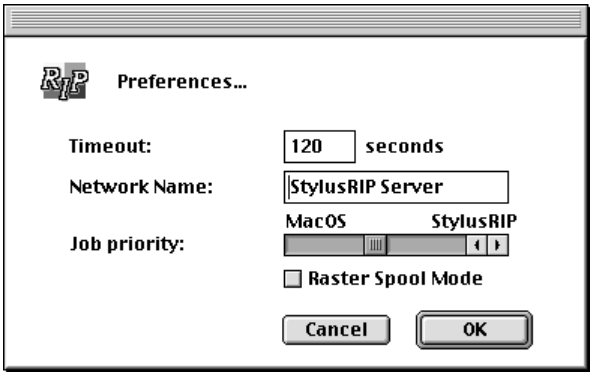


If you're using EPSON Stylus RIP on a standalone Macintosh, continue with "Setting Up Your PostScript Printer" on page 2-5. If you're using EPSON Stylus RIP on a network, or if you want to set preferences, follow the steps in the next section to configure the software for your system.

Configuring EPSON Stylus RIP Preferences

To configure the Stylus RIP Server, follow these steps:

1. Open the File menu and select Preferences. You see the following dialog box:



2. You can change the following settings:

   - Timeout
     This sets the time period when the Stylus RIP Server disconnects from a client Macintosh if there is no response. The default is 120 seconds; maximum is 240.
   - Network Name
     This is the name that appears in the Chooser and in the Stylus RIP server information window when the server is running.
   - Job Priority
     This sets the resource priority given to either the Mac OS or the EPSON Stylus RIP Server application. Move the slide bar all the way to Stylus RIP if you are running it on a standalone server to increase RIP performance.

- Raster Spool Mode
  This checkbox turns the raster image spooling feature on and off —the default setting is off. Raster Spool Mode is recommended only when you frequently print multiple copies of the same page.

  In Raster Spool Mode, the Stylus RIP Monitor appears on your screen when you print. See page 2-17 for more information.

Note:
The Timeout, Network Name, and Job Priority settings go into effect when you click OK and exit the Preferences dialog box. However, you must exit and restart the Stylus RIP Server software before a change to the Raster Spool Mode setting can take effect.

3. Click OK to accept the changes.

Setting Up Your PostScript Printer

Before you can print with the EPSON Stylus RIP software from any Macintosh, you need to set up the Chooser and select the correct PostScript Printer Definition (PPD) file on the Macintosh you are printing from.

You should double-check these settings before printing to the Stylus RIP Server, especially if you regularly print to different printers on a network or save PostScript print files for printing on printers not connected to your network.

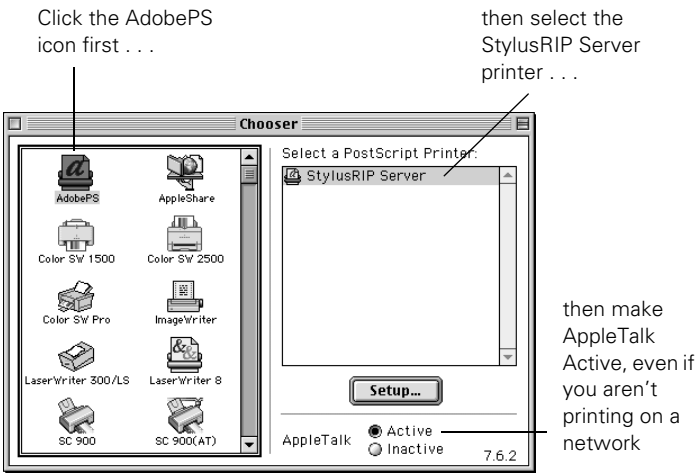
To select the proper PPD file and Chooser settings, follow these steps:

1. Turn on your EPSON printer, and if it is connected to a network, turn on the print server Macintosh.

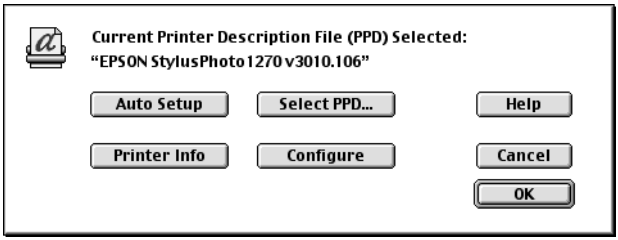
2. Double-click the StylusRIP Server icon in the Stylus RIP folder to start the EPSON Stylus RIP Server. (In a networked environment, the Stylus RIP Server icon is located on the hard drive of the print server Macintosh.)

3. On the Macintosh you wish to print from, open the Chooser in the Apple menu. Click the AdobePS icon, and select StylusRIP Server from the printer list. Make sure AppleTalk is active, even if you are not connected to a network.

Caution:
You must turn on AppleTalk or the Stylus RIP software will not work, even if you are using a standalone system.

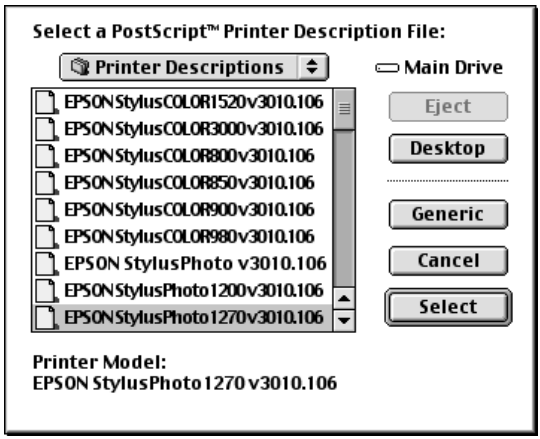


4. From the Chooser, click Setup to select the PPD file that corresponds to your EPSON ink jet printer. The following dialog box appears:



5. In most cases, clicking the Auto Setup button will automatically select the correct PPD file. Click Auto Setup. If your printer model appears at the top of this dialog box, click OK.

   If your printer model is not displayed, click Select PPD. The following dialog box appears:



6. Highlight your printer model and click Select. Then confirm the name and click OK. Close the Chooser.

Now you're ready to print a PostScript document from the print server or a client Macintosh. See the following section for printing instructions.

To make starting Stylus RIP easy and to allow you to drag and drop PostScript files for printing, create an alias of the StylusRIP Server program on your desktop. Click the StylusRIP Server icon and select Make Alias from the File menu. Then drag the alias icon to your desktop. See page 2-15 for instructions on drag and drop printing.

Printing from an Application

When you want to print PostScript documents, you must first start the Stylus RIP Server software, and then leave it running. In most situations, you should leave it active until you shut down your Macintosh.

Note:
To set up the Stylus RIP Server software so it starts automatically each time you turn on or restart your Macintosh, see page 2-14.

Then, when you send a PostScript print job from your application to the Stylus RIP Server, it processes the PostScript file into a raster image and prints it on your printer. If you send the job from a client Macintosh on a network, the Stylus RIP Client software sends it to the print server Macintosh for processing.

Caution:
Before printing from an application, make sure the Stylus RIP Server software is set up and running.

If you're printing from a client system, you don't need to have the Stylus RIP software on your Macintosh. Just make sure Stylus RIP is running on the server and AdobePS is selected in the client Macintosh's Chooser before you print. See page 2-5 for instructions.

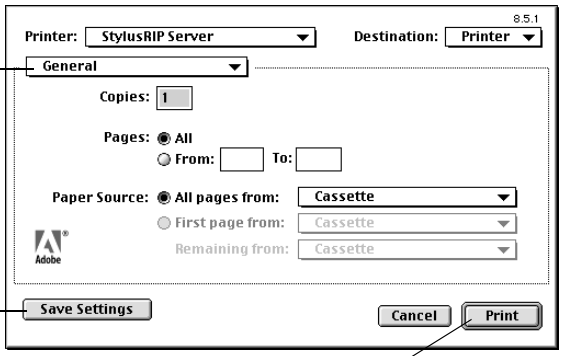
Sending the Print Job

To print a document from an application, follow these steps:

1. Open the document you want to print in your application.

2. Select Page Setup from the File menu. The Adobe Page Setup dialog box appears. Set the print options for your document and click OK.

3. Once you have set up the page, select Print from the File menu. The following dialog box appears:



Click here to select different categories of print job options; see page 2-10

Click here to save the current settings as the default settings

Click here to print your document

4. Select the number of copies, page range, and paper source you want. Make sure the Destination option is set to Printer, not File.

   If you want to use the "drag and drop" printing method described on page 2-15, select File instead, and make sure you print to a "PS," not "EPS," file.

   To set options for your print job, choose a print job option category from the General pop-up menu. See page 2-10.

5. Click Print. The application sends the print job to the Stylus RIP Server software for processing and printing.

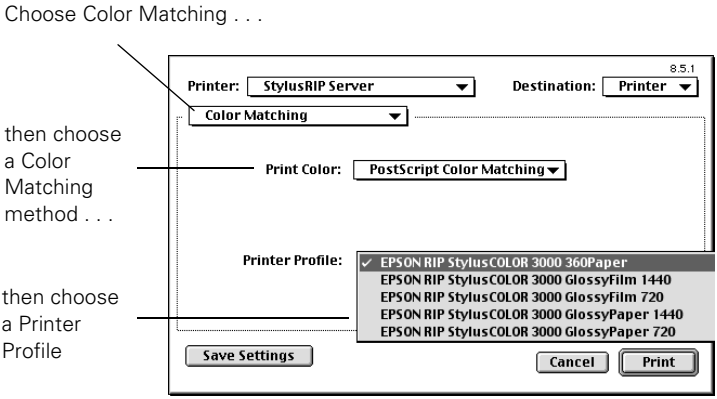
Setting Print Job Options

Print job options are divided into categories—you access these different categories of options via a pop-up menu that is initially labeled General. Certain categories, such as Background Printing or Cover Page, are common to all PostScript printers and most applications, and are covered in your application's user manual. Settings in other categories, such as Color Matching and Printer Specific Options, deal specifically with the EPSON Stylus RIP software's abilities, and are covered in the following sections.

Color Matching

The EPSON Stylus RIP can manage colors in several different ways. Follow these steps to set color matching options:

1. From the Print dialog box, choose Color Matching from the print job option category pop-up menu.



2. Choose one of the following Print Color settings:

   - Black and White
     Select this setting for faster printing of text and/or line art in black only.
   - Color/Grayscale
     Choose this setting for printing without CMYK color correction.
   - ColorSync Color Matching
     Choose this setting for color management with ICC profiles. Stylus RIP matches the colors in your printout to the colors displayed on your monitor as closely as possible. In a networked system, ColorSync color correction is performed on the client Macintosh, and must be enabled.
   - PostScript Color Matching
     Choose this setting for color management of RGB files or if you're using a press simulation profile. In a networked system, PostScript color matching is performed by EPSON Stylus RIP on the print server.

   If you choose Black and White or Color/Grayscale, click Print.

   If you choose ColorSync Color Matching or PostScript Color Matching, continue with step 3.

3. Choose a Printer Profile corresponding to the media and resolution (print quality), or the press simulation, you want to use.

   The available profiles are described below. Be sure to choose one of the media/resolution profiles beginning with CPS or one of the press simulation profiles beginning with EPSON. These are the only ones that work with Stylus RIP.

The profiles use these terms:

- 360P_360: 360 dpi Ink Jet Paper
- GF_1440, GF_720: Glossy Film at 1440 or 720 dpi
- GP_1440, GP_720: Glossy Paper at 1440 or 720 dpi
- MA: Matte Paper - Heavyweight
- MG: Glossy Paper - Photo Weight
- PM: Archival Matte Paper
- PQP_1440, PQP_720: Photo Quality Ink Jet Paper at 1440 or 720 dpi
- RC: Premium Semigloss Photo Paper (EPSON Stylus Photo 2000P) or Premium Glossy Photo Paper (EPSON Stylus Color 980)
- EPSON_DIC: Japanese press standard
- EPSON_Euro: (Euroscale) European press standard
- EPSON_SWOP: (Specifications for Web Offset Publications) U.S. press standard. Choose this profile if you're using the Press Simulation option.
- EPSON_TOYO: Japanese press standard

Note:
If you're using one of the Press Simulation options described in the next section, you must choose the corresponding Press Simulation profile listed above.

Printer Specific Options

Follow these steps to set media quality and type, ink, and Press Simulation options if you selected Printer Specific Options from the Print dialog box:

1. Set the Media(Quality) option corresponding to the media you're printing on and the resolution (print quality) you want to use.

   See your printer's user's guide for more information about Media Type and Print Quality settings. If you're using color matching, make sure the Media(Quality) setting you choose corresponds to your Printer Profile setting.

2. Set the Ink option to CMYK (the default setting) for color or Grayscale.

3. Choose one of the Press Simulation settings if you want your colors to more closely match those of SWOP printing devices or other standards.

   If you use one of the press simulation options, you must choose the corresponding profile (see page 2-11), and print on coated or photo quality media. Your choices are:

   - SWOP-coated (Specifications for Web Offset Publications, U.S. press standard for coated paper)
   - Euro (Euroscale, European press standard)
   - DIC (Japanese press standard)
   - Off (Printer's default)

4. If you have an EPSON Stylus Color 1520 or 3000 printer, or an EPSON Stylus Photo 1200, 1270, or 2000P, choose one of the following for the Paper Options setting:

   - Print Using Roll Feed Media
     Make sure you choose this setting when you're printing on roll paper; otherwise, the printer will eject the entire roll of paper.
   - Print Using Cut Sheet Media (printer's default)
     Make sure you choose this setting when you're printing on single sheets of paper; otherwise, the top and bottom edges of your image may be clipped.

5. To send the print job to the Stylus RIP Server with the selected options, click Print. To make your settings the future default settings, click Save Settings.

Starting the EPSON Stylus RIP Server Software Automatically

Note:
Because the Stylus RIP Server software uses a lot of system resources, you may want to start it automatically only on a print server that is dedicated to printing PostScript documents.

Follow these steps to set up the Stylus RIP Server software so it starts automatically each time you turn on or restart your standalone Macintosh or print server:

1. Turn on the printer and the standalone or print server Macintosh.

2. Click the StylusRIP Server icon in the Stylus RIP folder to select it.

3. Choose Make Alias from the File menu. The software creates a StylusRIP Server alias icon in your Stylus RIP folder.

4. Drag the StylusRIP Server alias icon to your desktop.

5. Open the System folder and locate the Startup Items folder.

6. Drag the StylusRIP Server alias icon into the Startup Items folder.

When you restart your system, the Stylus RIP Server software starts automatically. To cancel automatic startup of the Stylus RIP Server software, remove its alias icon from the Startup Items folder and restart your Macintosh.

Drag and Drop Printing

Drag and drop printing allows you to create PostScript print job files and then drag them to the Stylus RIP Server when you're ready to print. During drag and drop printing, close all other applications so your Macintosh can print as quickly as possible with the maximum system resources. You don't even have to have the Stylus RIP Server application open before you start. Follow these steps:

1. Open a document in your application and select your Page Setup options.

2. Select Print from the File menu.

3. In the Print dialog box, set the Destination to File.

4. Click the General pop-up menu and choose Save as File.

5. Select any PostScript Level type, set the Data Format to Binary, and choose Include All fonts.

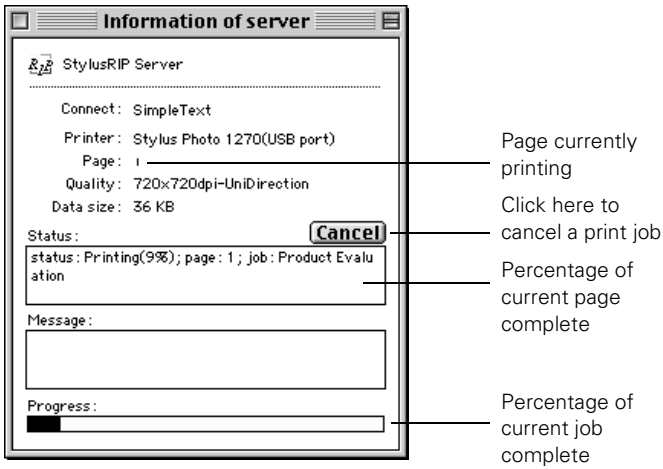
6. Set any other options you want to use and click Save.

7. If necessary, choose the folder where you want to save the print file.

8. After your file is created, simply drag it to the StylusRIP Server alias icon. The RIP opens (if it's not already open) and begins processing your file or files. You can continue to drag and drop multiple files for processing in the order in which they were dropped.

Managing Print Jobs

While your job is printing, the Server Information window displays the following information: (If you don't see this window, select Show window from the PostScript menu.)



You can use the information in the window to track the progress of your print job. If a problem occurs during printing, you'll see the error displayed in the Message area.

To cancel a print job, click the Cancel button on the screen, or press the ⌘ and . (period) keys on your keyboard.

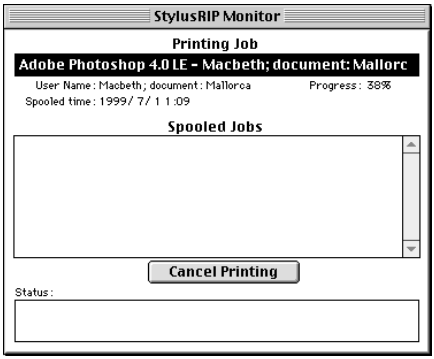
Using the Stylus RIP Monitor

If you're running the EPSON Stylus RIP on a network, you can use the StylusRIP Monitor to manage your print jobs from each client Macintosh. You must have Raster Spool Mode turned on to use the Stylus RIP Monitor.

Follow these steps to turn on Raster Spool Mode:

1. Choose Preferences from the File menu of the Stylus RIP Server software.
2. Check Raster Spool Mode and click OK.
3. Exit and restart the Stylus RIP Server software for this mode to take effect.

After you send a print job and the Stylus RIP Server processes it, the StylusRIP Monitor starts automatically. You can see a list of spooled print jobs and the status of the job that's currently printing in the StylusRIP Monitor window.



If you don't see the StylusRIP Monitor window, select Show window from the File menu. To cancel a print job that is already spooled and waiting to be printed, select the job and click Cancel Printing.

3 Installing EPSON Stylus RIP for Windows

This chapter provides instructions for installing the EPSON Stylus RIP software and accompanying PostScript driver on your Windows 95, Windows 98, Windows 2000, or Windows NT system. Even if you already have other PostScript printer drivers, you need to install AdobePS 4.2 (Windows 95, 98) or 5.0 (NT 4), which are included on the EPSON Stylus RIP CD-ROM. AdobePS 4.2 and 5.0 provide several new features and greater support for many popular applications.

Here's what you need to do to completely install EPSON Stylus RIP:

- Check the printer's setup and operation.
- Install the EPSON Stylus RIP software on your computer.
- Install the Adobe PostScript 4.2 or 5.0 driver, depending on your operating system.
- If your applications use ICM (Image Color Matching) and you need this type of color matching, make sure the ICC (International Color Consortium) profiles are copied to the correct folder.
- If you need to match PANTONE colors, be sure to read the instructions on the PANTONE PDF file, located at: C:\Program Files\EPSON\PANTONE\<printer_name>\CoatedPaper720\

Note:
If you're planning to use the EPSON Stylus RIP on a peer-to-peer network, you need to install Stylus RIP on the print server only. However, you must install the Adobe PostScript driver and a PPD on all computers that will print to Stylus RIP.

Checking the Printer

Before you install the EPSON Stylus RIP software, follow the instructions in your printer's setup guide to set up your printer for use, making sure you perform the following steps:

- Load paper, install ink cartridges, and allow your printer to complete its entire ink charging cycle.
- Connect the printer to your computer via a parallel cable and your computer's LPT1 port.
- Install the standard non-PostScript EPSON driver and utilities that came with your printer.
- Send a sample print job with the standard driver to make sure the interface connection and cable are secure and software is installed correctly.

Once the printer is set up and **tested fully**, you're ready to install the EPSON Stylus RIP software on your system.

Installing the EPSON Stylus RIP Software

Before you start, make sure Windows is running and all applications on your system are closed. Turn off all virus protection and disk-monitoring software, following the instructions included with your utility software or your Windows documentation.

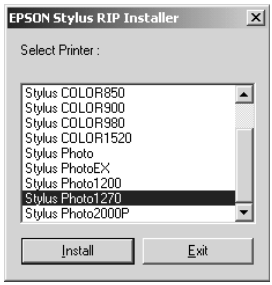
Note:
The installation options you choose in the setup program to install EPSON Stylus RIP on a client computer will be different than the ones you choose for a standalone or server computer.

Follow these steps to install EPSON Stylus RIP and the PostScript driver on your computer:

1. Insert the EPSON Stylus RIP CD-ROM in your drive. The installation program starts automatically.

   If it doesn't start automatically, double-click **My Computer**. Then double-click the Stylus RIP icon.

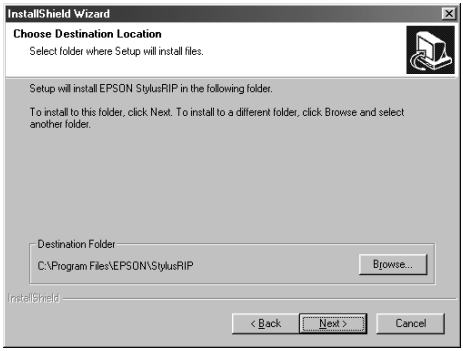
2. You see the Installer screen.



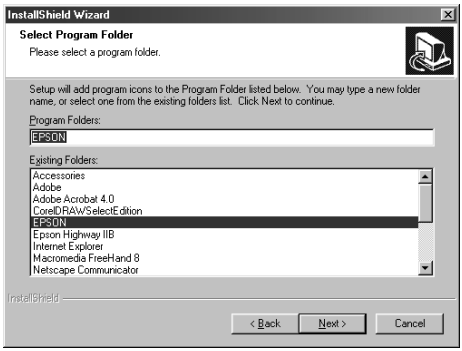
   If you are installing Stylus RIP on a standalone or server computer, choose your printer model from the Installer dialog box and click **Install**.

   If you are installing Stylus RIP on a client computer, click **Exit** and skip ahead to installing the PostScript driver on page 3-12.

3. At the introductory screen, click **Next**. Then choose an installation directory for the EPSON Stylus RIP by clicking **Browse**, or click **Next** to accept the default installation location.



4. Enter a folder name where the EPSON Stylus RIP files will be installed, or click **Next** to accept the default name.



5. Once the EPSON Stylus RIP files are installed on your system, you see a dialog box telling you that setup is complete. Click **Finish** to complete this portion of the RIP installation.

For Windows 95/98/NT, once the EPSON Stylus RIP Installer is finished, the Adobe PostScript 4.2 or 5.0 setup program starts automatically. Follow the steps in the next section to install the PostScript driver.

For Windows 2000, see page 3-8 for instructions on installing the PostScript driver.

Installing the PostScript Driver on Windows 95, Windows 98, and Windows NT

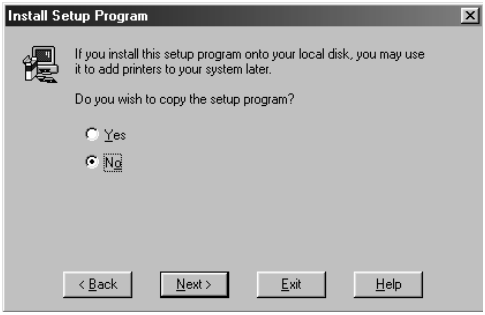
After you install the Stylus RIP software, the AdobePS 4.2 or 5.0 setup program starts automatically. Follow the steps below.

Note:
If the Adobe PostScript installer doesn't start automatically, you'll need to manually run the Adobe setup program from the EPSON Stylus RIP installation CD. It is located at:
Windows 95/98: (CD-ROM drive):\Driver95\USA\SETUP.EXE
Windows NT 4.0: (CD-ROM drive):\DriverNT\USA\SETUP.EXE

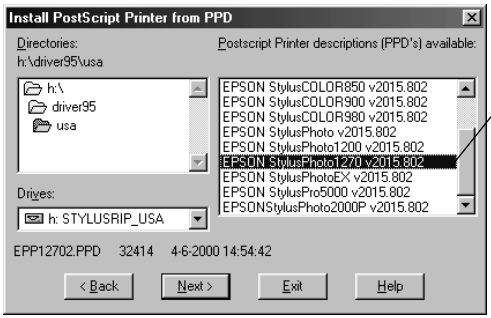
1. The AdobePS setup program displays its license agreement first. Read the agreement and click Accept to accept its terms.

2. At the first setup screen, click Next. (You can click Read to display the Readme file at this point if you wish.)

3. The program then asks if you want to copy the Setup program to your hard disk. Select No and click Next.

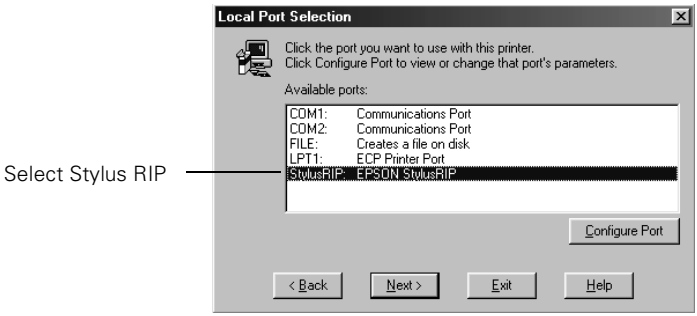


4. At the Install PostScript Printer from PPD dialog box, highlight the PPD file that corresponds to your printer model and click **Next**.

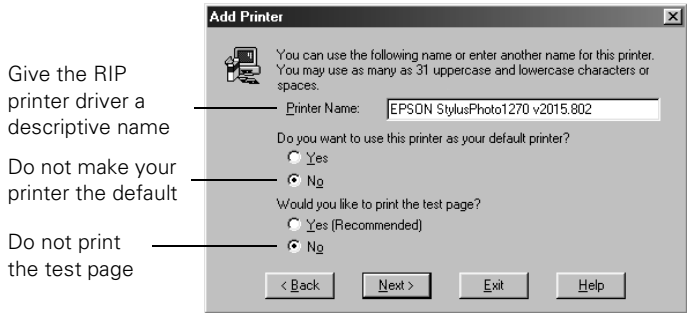


Note:
If the dialog box doesn't initially display any PPD files that correspond to your printer, open this folder from My Computer: C:\Program Files\EPSON\Stylus RIP\Stylus RIP_Utilities\PPDS.

5. At the Local Port Selection dialog box, select **Stylus RIP: EPSON Stylus RIP** and click **Next**.



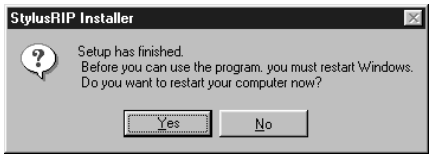
6. At the Add Printer dialog box, click both No radio buttons. Otherwise, your printer may output pages of code. Give the Stylus RIP printer a descriptive name to differentiate it from the standard driver. Then click Next.



7. At the printer properties dialog box, click OK to accept the default settings.

8. Once the PostScript driver is installed, the Setup program asks if you want to add another PostScript printer to your system. Click the Exit button to stop adding PostScript drivers.

9. When you see a message that installation is complete, click Yes to close the Setup program and restart the system automatically.



Once the system restarts, the EPSON Stylus RIP software and PostScript driver are successfully installed. If you aren't printing in a networked environment, you can jump ahead to Chapter 4 to begin printing with EPSON Stylus RIP.

Note:
If you use PageMaker 6.0 or 6.5, you also need to copy your printer's PPD file to a PageMaker folder. Copy your EPSON printer's PPD file from the Windows\System folder to C:\PM6\RSRC\USENGLISH\PPD4.

Installing the PostScript Driver on Windows 2000

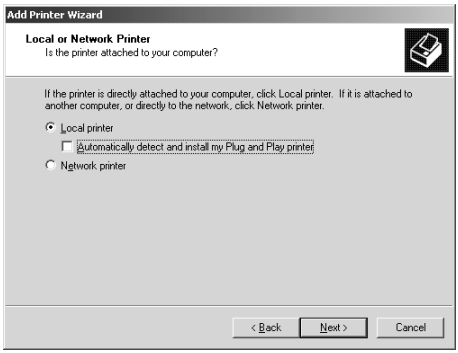
After installing the Stylus RIP software under Windows 2000 and restarting your computer, follow these steps to install the PostScript driver:

1. Click Start, Settings, and then Printers.

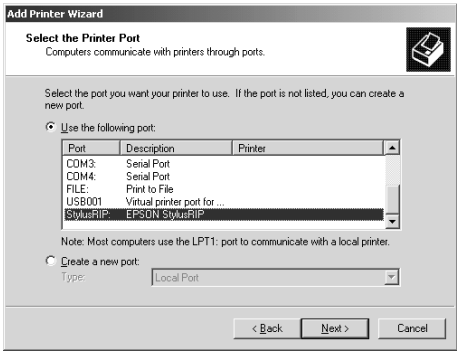
2. At the Printers dialog box, double-click the Add Printer icon.

3. At the Add Printer Wizard dialog box, click Next.

4. At the Local or Network Printer dialog box, choose Local Printer, deselect the Automatically detect and install my Plug and Play printer option, and click Next.



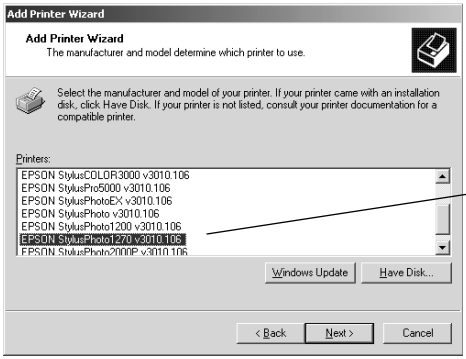
5. At the Select the Printer Port dialog box, make sure the Use the following port option is selected, then choose StylusRIP: EPSON StylusRIP from the port list, and click Next.



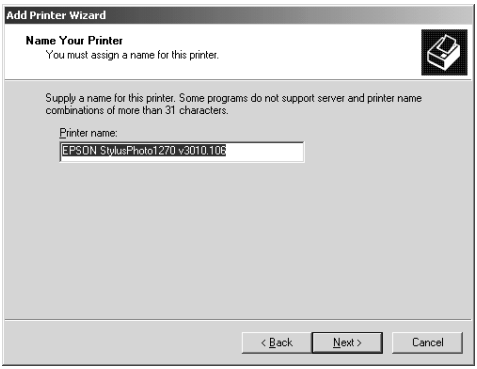
6. At the Add Printer Wizard dialog box, click Have Disk.

7. At the Install from Disk dialog box, click Browse and select (CD-ROM drive):\PPD2000\USA\OEMSETUP.EXE. Then click Open and click OK.

8. At the Add Printer Wizard PPD List dialog box, highlight the PPD file that corresponds to your printer model and click Next.



9. At the Name Your Printer dialog box, give the Stylus RIP printer a descriptive name to differentiate it from the standard driver. Then click Next.



10. At the Printer Sharing dialog box, make sure the Do not share this printer option is selected, then click Next.

11. At the Print Test Page dialog box, click No, then click Next.

12. Once the PostScript driver has been installed on your system, you see a dialog box telling you that setup was successful. Click Finish to complete the installation.

13. At the Digital Signature Not Found dialog box, click Yes.

The selected printer is installed and added to the Printer window. If you aren't printing in a networked environment, you can jump ahead to Chapter 4 to begin printing with the RIP.

Setting Up Network Printing

Computers within the same workgroup on a peer-to-peer network can use EPSON Stylus RIP to print over the network. File and printer sharing must be enabled and the Adobe PostScript printer driver must be installed. Also, the print server (the computer to which the printer is directly connected) must have the EPSON Stylus RIP software installed.

You can print directly to the Stylus RIP printer from both the server and client computers. You can also send print jobs to the RIP's shared print queue directory. If Stylus RIP is active, your job prints immediately. Otherwise, the next time Stylus RIP is launched, your print job will be printed.

Enabling File and Print Sharing

Follow these steps to enable sharing for the RIP's print queue directory:

1. Enable Windows File and Printer Sharing via the Network control panel on the print server. (See your Windows Help file for instructions.)

2. Locate the folder where print files are queued for processing. The default location is C:\Windows\Temp on the print server's hard drive, but you can change it. See page 4-13 for details on viewing or changing the print queue directory location.

3. Right-click the print queue folder icon and select Sharing from the pop-up menu.

4. Click Shared As, enter a Share Name, enable Write Permission or Full Access, and select any other options you want to use. Click OK to accept the changes.

Connecting the Client Computers

Once you've enabled sharing on the server's print queue directory, each of the client computers needs to connect to it. Windows provides several methods for connecting to a shared directory; the following steps describe one of the simplest methods:

1. Double-click the Network Neighborhood icon on the client computer's desktop.
2. Double-click the shared computer.
3. Double-click the Stylus RIP printer.
4. At the Setup Printer message, click Yes.
5. At the Add Printer Wizard dialog box, click Next.
6. At the Default Printer dialog box, click Next.
7. At the Print a Test Page dialog box, select No, then click Next.
8. At the end of the installation, click Finish.

Color Matching

During the EPSON Stylus RIP installation, the ICC profiles and PANTONE color table for your printer are installed in the Stylus RIP utilities folder.

Note:
The EPSON Stylus Photo 1270 does not support PANTONE color matching.

ICC Support

For Windows 95/98/2000 and Windows NT 4.0 ICM support, use the ICC profiles that are included with the EPSON Stylus RIP software. (Your application must also support Windows color matching to use ICC profile information.)

When you install the EPSON Stylus RIP software, the ICC profiles are copied into Stylus RIP Utilities folder: Program Files\EPSON\Stylus RIP\Stylus RIP_Utilities\ ICC_PROFILE.

To use the profiles with Windows 95, you must manually copy the profiles to this folder: C:\Windows\System\Color.

Under Windows 98, Windows 2000, and Windows NT 4.0, the profiles are automatically copied to the appropriate folders when you install Stylus RIP.

For more information, see the Readme file in the Program Files\EPSON\Stylus RIP\Stylus RIP_Utilities\ICC_PROFILE directory.

Note:
You should install an ICC profile for all your input/output devices to achieve successful color matching. In addition, you may need to copy your profiles to other locations depending on the applications you use. Refer to your application's documentation for instructions on using ICM.

PANTONE Color Support

PANTONE professional color palette files for your printer are included with the EPSON Stylus RIP software. These files can be read directly into most PANTONE-licensed applications so you can have printer-calibrated versions of PANTONE colors. The colors are calibrated to use Stylus RIP's error diffusion halftoning on EPSON coated paper and photo-quality media.

Note:
For installation and application-specific usage instructions, refer to the "Howto.pdf" file in the following folder:
Program Files\EPSON\Stylus RIP\Stylus RIP_Utilities\PANTONE\<your printer's name>\CoatedPaper720\.

Every attempt is made to accurately match color values as closely as possible to the PANTONE spot colors. However, no color matching scheme can guarantee an exact match, due to environmental and other characteristics that affect how we perceive color.

For example, a color that appears to be an exact match under incandescent room lighting may appear differently under fluorescent lighting conditions. While many of these factors are accounted for in the process of developing the colors, an exact match is not possible under all visual conditions.

4 Printing with EPSON Stylus RIP for Windows

Once you've installed the EPSON Stylus RIP software on your computer(s), you're ready to print in PostScript. To print with the EPSON Stylus RIP, you need to start the RIP, set printing options, print from your application, and let the RIP process send it to your printer. You can then use the EPSON Stylus RIP window to monitor your print jobs, manage the print queue, or run a batch of print jobs at the same time.

Here's what this chapter covers:

- Printing from a Windows application and setting printer and output options
- Managing print jobs
- Network printing
- Configuring the EPSON Stylus RIP application

Printing from an Application

When you want to print PostScript documents, you must first start the EPSON Stylus RIP software. Then you print via the PostScript driver, which automatically stores your print job as a file on your hard disk. The RIP then automatically processes the print job and sends it to your printer.

Starting EPSON Stylus RIP

To start the EPSON Stylus RIP software, click **Start**, **Programs**, **EPSON**, and click **StylusRIP**. The program checks your printer, and then opens the StylusRIP window:

This window displays the progress of your print job(s) as they are processed and allows you to cancel them. For more information, see page 4-8.

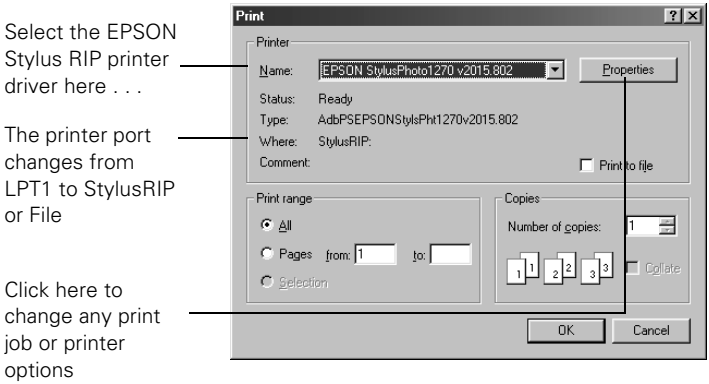
Note:
If the printer has not been previously licensed for PostScript, or if this is the first time you've run EPSON Stylus RIP, a dialog box prompts you for your EPSON Stylus RIP license key. The license key is printed on your CD-ROM sleeve. Type it exactly as shown and click OK. It can take up to 30 seconds to check a printer for its license.

Printing with the Default Options

You can print using the EPSON Stylus RIP default options or adjust the options before printing as described on page 4-3. To print with the RIP with the default options, make sure your printer is on, and follow these steps:

1. Open a document and choose **Print** from the application's **File** menu.

2. Choose the EPSON Stylus RIP printer driver from the print dialog box. The Where: field changes from LTP1 to StylusRIP or File.



3. If you want to change any printer options before printing, see the next section for instructions.

4. If you're ready to print with the default options, click OK.

After a few moments, the Stylus RIP window displays its print queue and printer status messages, and then sends the document to your printer. See page 4-8 for details.

Printing and Setting Printer Options

You can change several printer options, such as paper size and type, print resolution, or specific PostScript options before you print.

Note:
The actual Properties dialog boxes differ between Windows 95/98/2000 and Windows NT, but each allows you to change the same options.

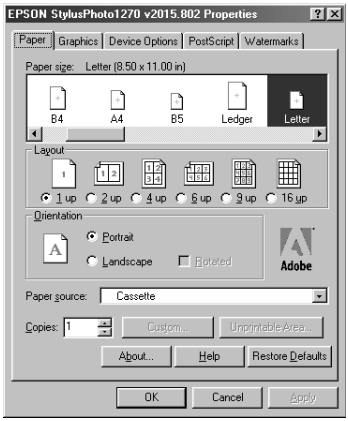
Follow these steps:

1. Open a document and choose **Print** or **Print Setup** from the File menu.

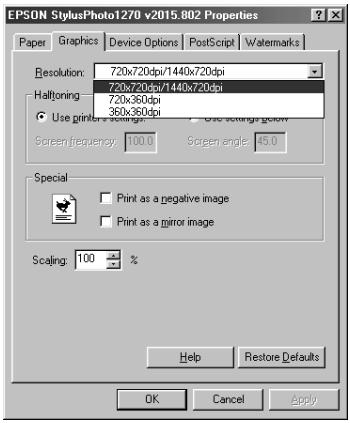
2. Select the **EPSON Stylus RIP** printer from the Name menu and click **Properties**.

3. In Windows 95/98/2000, you select printer options from three different tabs: Paper, Graphics, and Device Options.

   The Paper tab is the default tab, and is where you can specify the desired paper size, layout, orientation, paper source, and copies for your print job.



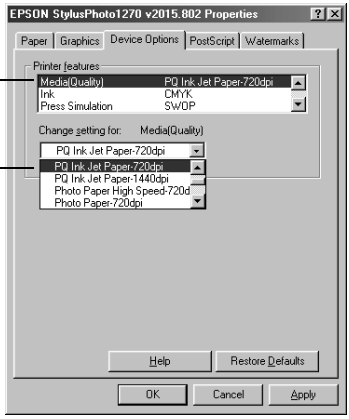
   The Graphics tab lets you specify any PostScript scaling or special effects. (The Resolution menu has no effect.)



The Device Options tab lets you select the type of media (paper) and desired resolution, ink color mode, and press simulation mode.

Choose the feature you want to set here, then . . .

Change the setting here



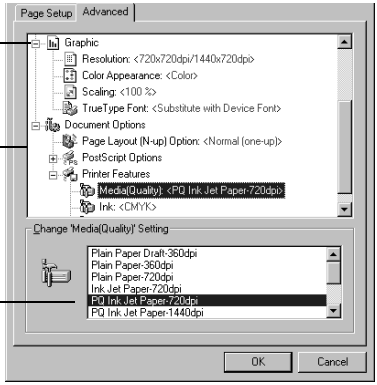
Note:
To make the settings in these dialog boxes your default settings for future printouts, right-click your printer in the Printers utility and choose Properties (Windows 95/98), Printing Preferences (Windows 2000), or Document Defaults (Windows NT) from the pop-up menu. The settings will now be the defaults for all your Windows applications.

In Windows NT, all printer and print job options are under the Advanced tab in a menu tree:

Click here to expand or collapse a section of the tree

Choose the feature you want to set here, then . . .

Change the setting here



In the Windows 95/98/2000 Device Options tab and the Windows NT Advanced tab, you click the feature you want to change in the upper portion of the dialog box, and then choose the setting for that feature from the lower portion.

For a description of the Paper and Graphics tab settings, click Help. For a description of the Device Options tab settings, see page 4-6.

4. When you're finished selecting options, click OK. Then click OK at the Print dialog box to print.

Selecting Device Options/Printer Settings

The Windows 95/98/2000 Device Options tab and the Windows NT Printer Features section let you set up your document for printing at different resolutions, on different media types, and with different PostScript effects. You can change the following printer options:

1. Set the Media(Quality) option to correspond to the paper you're printing on and the resolution (print quality) you want to use. See your printer user's guide for more information about Media Type and Print Quality settings.

2. Set the Ink option to CMYK (color) or Grayscale, depending on whether you want color or black ink output.

3. If you have an EPSON Stylus Color 1520 or 3000 printer, or an EPSON Stylus Photo 1200, 1270 or 2000P printer, choose one of the following Paper Options:

   - Print on roll paper
     Choose this setting when you're printing on roll paper; otherwise, the printer will eject the entire roll of paper.
   - Print on single sheets
     Choose this setting when you're printing on single sheets of paper; otherwise, the top and bottom edges of your image may be clipped.

4. If you are printing with CMYK color data and you want your printer's output to match the SWOP, Euro, or DIC standards of offset printing color separations, choose the appropriate standard as the Press Simulation setting. You have the following choices:

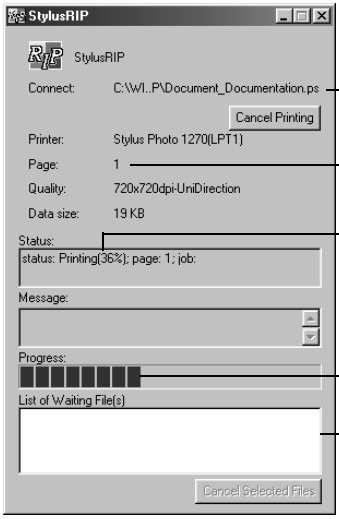
   - SWOP (Specifications for Web Offset Publications, the U.S. standard for coated paper)
   - Euro (Euroscale, European press standard)
   - DIC (Japanese press standard)
   - Off (the default setting)

Note:
The color of printouts can look different depending on lighting and paper selection. The Press Simulation feature assumes you are looking at printouts under light with a correlated color temperature of 5000K° and that were printed on 360 dpi Ink Jet Paper, Photo Quality Ink Jet Paper, Photo Paper, or Photo Quality Glossy Film.

Caution:
Some applications, such as PageMaker 6.5, Illustrator 7.0, or QuarkXPress 3.3 with HELIOS ColorSync2 XTension, can also be used for color management. If you use these programs' color management functions while a Press Simulation mode is selected, you may get unpredictable results.

Managing Print Jobs

While your job is printing, the following information appears in the Stylus RIP window:



Name of file currently printing

Page currently printing

Percentage of current page complete

Percentage of current job completed

Print jobs in the queue

If a problem occurs during printing, you'll see an error indicated in the Message area. If you run out of paper or ink, for example, Stylus RIP displays an error message in this area and holds the print job. After you correct the problem, Stylus RIP releases the job.

To cancel a job that is currently spooling, click Cancel Printing.

To remove a job that is waiting in the queue, select the file or files from the list at the bottom of the window and click Cancel Selected Files.

Batch Printing

In addition to having the RIP process print jobs as soon as they are created, you can also create print jobs and hold them in a queue so you can print them at a later time. This allows you to close other applications, so your computer can print quickly, using the maximum available system resources. EPSON Stylus RIP can handle several print jobs at once, processing and printing them in the order they were received.

To perform batch printing from a standalone or server computer, follow these steps:

1. Close the Stylus RIP window, if it's open.

2. Print using your EPSON Stylus RIP printer driver from your application as described on page 4-2. Each job you send enters the queue automatically.

3. When you're ready to print, start EPSON Stylus RIP as described on page 4-2. The RIP finds the queued print jobs and starts spooling them automatically.

To batch print from a client computers, direct your print jobs to a folder other than the shared print queue directory, and then manually copy the files to the queue when you want to print them. See page 4-10 for details.

Caution:
Although you can run print jobs when you're not around, you should not leave your printer operating unattended for long periods of time.

Network Printing

You can use EPSON Stylus RIP to share your printer over a Windows peer-to-peer network. See "Setting Up Network Printing" on page 3-11 for setup instructions. You can print directly to the Stylus RIP printer from a client computer. Or if Stylus RIP hasn't been launched on the server, you can send print jobs to the RIP's shared print queue directory. The next time Stylus RIP is launched, your print jobs will be printed.

Sending Print Jobs from Client Computers

Once the Stylus RIP printer or shared print queue directory is accessible from a client computer, you print to the RIP directly or by sending print files to the mapped drive letter. Follow these steps to print to the RIP from a client computer:

1. Open a document and choose Print from the application's File menu.

2. Choose the shared EPSON Stylus RIP printer driver from the Name menu. Select any print job or printer options by clicking Properties, as described on page 4-3. When you're finished, click OK.

3. Click Print. The file is transferred to the shared Stylus RIP temp folder on the server and prints.

Configuring EPSON Stylus RIP

You can configure the following two preference settings for the EPSON Stylus RIP software:

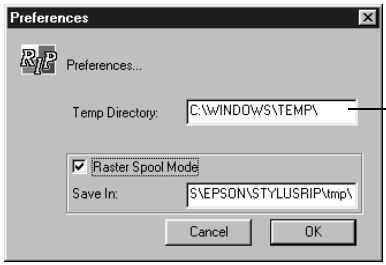
- For convenience in printing from your applications, you can change the default folder where Stylus RIP looks for print files to process. (Create the folder on the hard drive first.)
- If you frequently need to print multiple copies of the same document, you can increase your print speed by turning on Raster Spool Mode.

You can also configure the RIP to launch itself automatically when Windows starts.

Setting EPSON Stylus RIP Preferences

Follow these steps to set EPSON Stylus RIP preferences:

1. Start Stylus RIP as described on page 4-2.
2. Click the icon in the upper left corner of the Stylus RIP window to display the Control menu.
3. Select Preferences. The Preferences dialog box appears:



If you want to use a different folder to queue your print jobs, enter it here

4. Select the preference you want:

   - Type a new path for the Temp Directory if you want to change the folder where the RIP looks for print files to process. (You must first create this folder in Windows.)
   - Click Raster Spool Mode if you want to speed up the printing of multiple copies of the same page. Then enter a path to the folder in which you want to save the raster files (if you have more space on another drive, for example). Raster Spool Mode speeds the printing of documents where you specify multiple copies of the same page.

5. Exit Stylus RIP and restart it to enable your changes.

Starting EPSON Stylus RIP Automatically

If you use EPSON Stylus RIP regularly, you can set it up to start automatically whenever you turn on your computer. Follow these steps:

1. Double-click the My Computer icon on your desktop.
2. Locate the Stylus RIP icon in the following folder: C:\Program Files\EPSON\Stylus RIP.
3. Right-click the icon and choose Create Shortcut from the pop-up menu. The shortcut appears on your desktop.
4. Move the shortcut into the C:\Windows\Start Menu\Programs\StartUp folder, or wherever the startup folder is located on your system.

Now whenever you open or restart Windows, the RIP starts automatically.

5 Troubleshooting

This chapter describes solutions to some of the problems you might encounter with the EPSON Stylus RIP software. Many problems can be solved by making sure the printer is turned on and properly connected to your computer or network before you start the Stylus RIP software, so check these conditions whenever you encounter a problem.

This chapter covers the following:

- Printing high quality color images
- Solving problems

Printing High Quality Color Images

To obtain high quality color images, keep the following points in mind:

- Always use EPSON inks, paper, and other media designed for your EPSON ink jet printer.
- For the best results, use specially coated ink jet paper, which is designed to distribute the ink evenly, and is different from uncoated bond paper used in laser printers and copiers.

- Make sure you're using the correct PostScript driver for your printer (included on the EPSON Stylus RIP CD-ROM).
- If you're working with scanned images, check the scanner software settings.
- Try cleaning the print head with the utilities provided with your printer, then print a few lines to check your output. See your printer documentation for instructions.
- Run the print head alignment utility using coated ink jet paper. See your printer documentation for instructions. You may want to use a loupe to check the alignment.

Solving Problems

Here are some detailed solutions to specific problems you may have or error messages you may receive.

You see a Printer cannot be opened or Printer not found error message (Macintosh)

Possible cause	Solution
The printer is not turned on.	Turn on the printer and try printing again.
The printer is not correctly connected to the Stylus RIP standalone or server Macintosh.	Make sure the printer connection is secure at both ends of the cable. Also make sure the cable is not defective and it meets the specifications for your printer. See your printer documentation for more information.
You're using an optional EtherTalk interface card and named the printer incorrectly.	Check the instructions in Chapter 1 to make sure you named the printer correctly.

You see a memory or VM error message (Macintosh)

Possible cause	Solution
Virtual memory is not turned on.	Select **Control Panels** from the Apple menu, then select **Memory Control Panel**. Click the **On** button in the Virtual Memory panel.
Not enough memory is allocated to the Stylus RIP software.	Quit Stylus RIP and select the Stylus RIP icon on your desktop. Select **Get Info** from the File menu. Then increase the amount of available memory in the **Preferred Size** box to at least 20000K (minimum 16000K), making sure to leave some memory available for your system software and other applications.
Your system needs more memory.	If neither of the solutions above prevent memory error messages, you need to install additional memory on your Macintosh.

You see a communications error message when you try to open EPSON Stylus RIP

Possible cause	Solution
The printer is not turned on or not connected securely.	Make sure the printer connection is secure at both ends of the cable. Also make sure the cable is not defective and it meets the specifications for your printer. See your printer documentation for more information. Turn on the printer and try printing again.
Your printer is connected to LPT2 or LPT3 (Windows).	Change the printer connection to LPT1. You cannot select any other output port within the EPSON Stylus RIP program.

EPSON Stylus RIP does not run (Windows)

Possible cause	Solution
You're using Norton Navigator or another special desktop.	Click the Windows icon, then click the Stylus RIP icon to run Stylus RIP directly from Windows.

Your saved files don't print (Windows)

Possible cause	Solution
You're not saving your PostScript print files with the .ps or .prn extension.	When you print from your application, make sure you save your PostScript print files with the **.ps** or **.prn** extension. Stylus RIP only processes files with one of these two extensions in their names.
You're not saving your PostScript print files in the right folder.	When you print from your application, make sure you save your PostScript print files in the **C:\Windows\Temp** folder. Stylus RIP will only process files in this folder, unless you configure EPSON Stylus RIP differently. See page 4-11 for instructions.

EPSON Stylus RIP takes a long time before printing starts

Possible cause	Solution
Your system needs more memory.	Add RAM to your computer. Complex jobs that use a large number of fonts will process faster with more RAM.
Your system needs a faster processor.	Upgrade your CPU, if possible, for faster processing of your print jobs.

Your printouts contain incorrect fonts or jagged type

Possible cause	Solution
You're not using PostScript fonts or your fonts are incorrectly installed.	Make sure you have PostScript compatible fonts (not just screen fonts) loaded on your system and selected in your application. Most fonts are downloaded with the print job. If the page is missing a font, EPSON Stylus RIP will default to Courier or print a bitmap image of the font.
The print head nozzles are clogged.	Run a self test on the printer and clean the print heads if necessary. See your printer documentation for instructions.

The printer is producing pages containing illegible type or characters

Possible cause	Solution
The printer is not receiving and processing PostScript code.	Click **Cancel** in the Information window on a Macintosh or **Cancel Printing** in the Stylus RIP window on a PC to stop printing. If this doesn't work, turn off the printer to avoid wasting paper. On a Macintosh, halt the Stylus RIP application by holding down the **Option** and **Command** keys and then pressing **Esc**. Restart your Macintosh to establish communication with the printer. Make sure that you correctly performed all the steps in Chapters 1 and 2 (Macintosh) or Chapters 3 and 4 (Windows). On a Windows system, make sure you are printing through the PostScript printer driver, and the port is set to Stylus RIP. On a Windows system, set the Parallel port type to either EPP or ECP mode, See your PC's owner's manual for instructions on changing this setting in your BIOS.

Images and type look bitmapped and jagged on your printouts

Possible cause	Solution
You're printing with the standard EPSON non-PostScript driver rather than Stylus RIP.	Make sure you start the Stylus RIP program before you start printing. On a Macintosh, make sure you select **AdobePS** in the Chooser. On a PC, make sure the correct Stylus RIP driver is selected in your application's Print Setup dialog box.

You see Font not found or Find font error messages (Macintosh)

Possible cause	Solution
You're allowing Font Substitution in your application.	Turn off Font Substitution in your application's Page Setup dialog box.
You're not using PostScript fonts.	You must have PostScript compatible fonts (not just screen fonts) loaded on your system and selected in your application to be able to print with the RIP.
You have moved or renamed the Stylus RIP software folder.	Follow the steps in Chapter 1 to reinstall the EPSON Stylus RIP software on your system. Then, don't move any of the installed files or folders.
Your Stylus RIP Preferences and tmp folders are corrupted.	If none of the solutions above prevent font error messages, delete the tmp folder and the CPSPREFS file in the Stylus RIP folder. Stylus RIP will create a new preference file automatically when you restart the program.
Your font management utility has a font conflict.	If you use a font management utility, check it to make sure all the fonts are available for your application as necessary.

One or more colors are missing in your printout or it prints in black ink only

Possible cause	Solution
You didn't specify color data in your application software or select color ink in your print options.	Check your application software documentation for instructions on creating a color document. Also make sure color ink is selected; see Chapters 2 and 4 for more information.
Your color print head needs cleaning or the ink cartridge is empty.	See your printer documentation for instructions on cleaning the color print head or replacing an ink cartridge.

Your printed output has white lines

Possible cause	Solution
Your screen saver is interrupting the printing process.	Turn off your screen saver.
The print head nozzles are clogged.	Run a self test on the printer and clean the print heads if necessary. See your printer documentation for instructions.

Bitmap images or clip art looks jagged

Possible cause	Solution
You are enlarging the images.	Try printing the images in a smaller size. These types of images are processed for a set resolution and size. EPS art files produce higher-quality images than bitmap art, especially when enlarged.

You're having trouble printing from PageMaker 6.0 or 6.5 (Windows)

Possible cause	Solution
Your PostScript printer PPD file is not in the correct folder or directory.	Copy your printer's PPD from the **Windows\System** folder to the following folder or directory: **C:\PM6\RSRC\USENGLISH\PPD4**.

EPS and TIFF files do not print

Possible cause	Solution
These files cannot be processed directly by Stylus RIP.	Place EPS or TIFF files on a page created in another application and then print.

Your printout has misplaced images or type

Possible cause	Solution
Your system doesn't have enough memory to run Stylus RIP.	Print from your application without starting Stylus RIP. Then close your applications before you run the EPSON Stylus RIP software. Add RAM to your computer.

Printed images are clipped at the edges

Possible cause	Solution
You selected the wrong paper size in Page Setup or Print Setup.	Make sure you select the paper size that corresponds to the paper in the printer.
You are printing a document with margins larger than the printable area of your printer.	Check your printer documentation for information on the maximum printable area on your printer and format your document so it fits within that area. Also check that your printer software settings are correct for the document.
On a Macintosh, you selected the wrong printer name in the Chooser.	Follow the instructions under "Setting Up Your PostScript Printer" on page 2-5 and make sure you select the correct printer icon, AppleTalk zone, and printer name. Then try printing again.

Your Macintosh freezes when you try to print from QuarkXPress

Possible cause	Solution
Quark balloon help caused a conflict.	Drag the QuarkXPress balloon help to the trash.

Your Macintosh loses custom page sizes when selecting PDF file output from QuarkXPress 3.3x

Possible cause	Solution
The settings in QuarkXPress are incorrect.	When selecting the PDF format, select Generic Color in order to select the custom page sizes that were originally created.

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