Adobe® PostScript® 3™ User's Guide

Adobe® PostScript® 3™ Kit (C12C83257*/C12C83258*)

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Introduction

The Adobe® PostScript® 3™ Kit gives your EPSON® printer the ability to print documents formatted for PostScript® Level 1 to 3.

The product number for the optional Adobe PostScript 3 Kit and the supported laser printer are as follows:

Option	Printer
C12C83257*	AL-C4100
C12C83258*	AL-C9000

Before installing the ROM module included in the Adobe PostScript 3 Kit into the printer, make sure that the ROM module is compatible with your printer. See "Hardware Requirements" on page 10 for more information.

This manual describes how to install and use your Adobe PostScript 3 Kit, and is intended to supplement the information in your printer manual.

Note:

- *This guide includes information for both the AL-C4100 and AL-C9000 models. Unless stated, the information applies to both printer models.*

- *The screen shots used in this guide show the AL-C4100 model. If you are using the AL-C9000 model,* AL-C9000 *appears instead of* AL-C4100 *as the model name.*

Features

The Adobe PostScript 3 Kit provides you with the following high-performance features:

- ❏ Ability to print documents formatted for PostScript printers. You can easily print text, line art, and graphics.

- ❏ One hundred and thirty-six fonts in 39 font families. The fonts include: Albertus, Antique Olive, Apple Chancery, Arial, ITC Avant Garde Gothic, Bodoni, ITC Bookman, Carta, Chicago, Clarendon, Cooper Black, Copperplate Gothic, Coronet, Courier, Gill Sans, Eurostile, Geneva, Goudy, Helvetica, Hoefler Text, Joanna, Letter Gothic, ITC Lubalin Graph, Marigold, Monaco, ITC Mona Lisa, New Century Schoolbook, New York, Optima, Oxford, Palatino, Stempel Garamond, Symbol, Tekton, Times, Times New Roman, Univers, Wingdings, ITC Zapf Chancery, and ITC Zapf Dingbats.

- ❏ IES (Intelligent Emulation Switch) and SPL (Shared Printer Language) support to allow the printer to switch between the PostScript mode and other emulations as print data is received at the printer.

- ❏ EPSON quality, reliability, and ease of operation.

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What's Included in the Adobe PostScript 3 Kit

The Adobe PostScript 3 Kit consists of the following items. Make sure that you have all of them.

- ❏ Adobe PostScript 3 ROM module
- ❏ Adobe PostScript 3 logo sticker
- ❏ PostScript 3 Utility CD-ROM
- ❏ Online Guide Supplement
- ❏ Software Licence Agreement

Hardware Requirements

Your printer must meet the following hardware requirements to be able to use the Adobe PostScript 3 Kit.

- ❏ Memory requirements for using the Adobe PostScript 3 Kit are shown below. Install optional memory modules into your printer if the amount of memory currently installed does not meet the minimum requirements.

AL-C4100

Minimum memory	Recommended memory
128 MB (for single-side printing of an image data in full color)	128 MB or more (for single-side printing of an image data in full color)
192 MB (for duplex printing of an image data in full color)	192 MB or more (for duplex printing of an image data in full color)

AL-C9000

Minimum memory	Recommended memory
128 MB (for single-side printing of an image data in full color on A4/Letter size paper)	320 MB or more (for single-side printing of an image data in full color on A3 size paper)
192 MB (for duplex printing of an image data in full color on A4/Letter size paper)	576 MB or more (for duplex printing of an image data in full color on A3 size paper)
192 MB (for single-side printing of an image data in full color on A3 size paper)	
320 MB (for duplex printing of an image data in full color on A3 size paper)	

System Requirements

Your computer must meet the following system requirements to be able to use the Adobe PostScript 3 Kit.

Note:
Your computer must have a hard disk with at least 8 MB of free space.

Windows users

To use the Adobe PostScript 3 Kit, your computer must be running one of the following operating systems:

Microsoft ® Windows® 98/95
Microsoft ® Windows® Millennium Edition
Microsoft ® Windows NT ® 4.0
Microsoft ® Windows® 2000
Microsoft ® Windows® XP

Macintosh users

Any Macintosh computer to which the printer is connected must be running Mac OS 8.6, 9.x, or Mac OS X ver. 10.2.4 or later.

Caution:

- *Do not install software included in the Adobe PostScript 3 Kit on a computer running System 8.5 or earlier. Installing the software on earlier systems can corrupt them.*
- *The printer driver included in the Adobe PostScript 3 Kit cannot be used on Macintosh 68K computers.*

Note:

- ❏ *When printing via the USB port from a Power Macintosh running Mac 0S 8.6 or 9.x, the printer must be set to handle ASCII data. To specify this setting, select* Print *from the File menu of the application that you are using, and then select the name of the application from the options available in the Print dialog box. On the setup option page that appears, select ASCII for the data format setting. The actual setting name varies by application, but is often called Encoding or Data.*

- ❏ *For best results, you should connect the printer directly to the computer's USB port. If multiple USB hubs must be used, we recommend that you connect the printer to the first-tier hub.*

Care and Handling

Follow these guidelines when handling the ROM module included in the Adobe PostScript 3 Kit:

- ❏ Do not drop or bend the ROM module.

- ❏ Do not store the ROM module in a place exposed to direct sunlight or near a heat source.

- ❏ Make sure the printer is turned off when you insert or remove the ROM module. Otherwise, you may damage the module or the printer.

- ❏ Do not touch the connectors on the ROM module. If the connectors become dirty, clean them by wiping the edge with a clean tissue. Do not use water, alcohol, or other solvents.

Installing the Adobe PostScript 3 ROM Module

For instructions on how to install the Adobe PostScript 3 ROM module into your printer, see the section in your printer manual on installing options.

After you install the ROM module, see the appropriate chapters in this guide for instructions on installing the software into your computer.

Limitations When Using the Adobe PostScript 3 Kit (Windows Users only)

Note that some or all of the functions of the following utilities may be unavailable in the PostScript mode.

- ❏ EPSON Status Monitor 3: Cannot be used in PostScript mode.
- ❏ EpsonNet DirectPrint: The job cancel and high-speed printing functions cannot be used.
- ❏ EpsonNet WebManager: The driver distribution function and the job-information view function cannot be used.

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Windows Me, Windows 98, Windows 95 Users

To use the Adobe PostScript 3 Kit with Windows Me, Windows 98, and Windows 95, you will have to install the printer driver. See the appropriate sections below for installation instructions according to the interface that you are using to print.

Note:
The USB interface is not available for printing under Windows 95.

Installing the printer driver for the parallel interface

Follow the steps below to install the printer driver for the parallel interface:

Note:
You must have at least 6 MB of free space on your hard disk drive to install the printer driver.

1. Insert the PostScript 3 Utility CD-ROM into your CD-ROM drive.

2. Click Start, then Settings, and finally Printers.

3. Double-click the Add Printer icon.

4. The Add Printer Wizard will be displayed. Follow the on-screen instructions until the screen asking you to select the printer model is displayed.

5. Click Have Disk and specify the path to the appropriate INF file necessary for installation. If your CD-ROM drive is D:, the path will be D:\ENGLISH\WIN9X\PS_SETUP (change the drive letter as needed for your system).

6. Select the INF file for the version of the Windows operating system that you are running and continue with the installation according to the on-screen instructions until the screen asking you to select the port the printer is connected to is displayed.

7. Select LPT1 as the port the printer is connected to, and then click Next. Follow the on-screen instructions for the rest of the installation.

8. When installation is done, click Finish.

Installing the printer driver for the USB interface

Follow the steps below to install the printer driver for the USB interface:

Note:

❏ *The USB interface is not available for printing under Windows 95.*

❏ *If the Windows driver and the Adobe PS driver for an Epson printer with a USB connection have already been installed on your computer, follow the installation procedure explained in the previous section, "Driver installation for the parallel interface connection," but make sure to select USB as the port in step 7. If you have not installed an Epson USB printer driver on your computer, follow the installation procedure below.*

❏ *You must have at least 6 MB of free space on your hard disk drive to install the printer driver.*

1. Without connecting the printer to your computer, turn on both the computer and the printer.

2. Once Windows has started, connect your computer to the printer with a USB cable.

3. The Add New Hardware Wizard will launch automatically. Click Next to start the installation of the USB printer driver.

4. Select Search for best driver for your device (Recommended), and then click Next.

5. Insert the PostScript 3 Utility CD-ROM into your CD-ROM drive.

6. Select only the Specify a location check box, and then specify the following path on the CD-ROM. You can click Browse to select the path. If your CD-ROM drive is D:, the path will be D:\ENGLISH\WIN9X\PS_SETUP (change the drive letter as needed for your system).

7. Click Next to continue with the installation.

8. If the USB printer driver file is correctly recognized, the message "EPSON USB Printer" will appear. Click Next to continue with the installation.

9. When installation of the USB printer driver is done, click Finish.

10. After the USB printer driver installation is done, the Add Printer Wizard will launch automatically. Follow the on-screen instructions to continue with the installation until the screen asking you to select the printer model is displayed.

11. Click Have Disk and specify the path to the appropriate INF file necessary for installation. If your CD-ROM drive is D:, the path will be D:\ENGLISH\WIN9X\PS_SETUP (change the drive letter as needed for your system).

12. Select the INF file for the version of the Windows operating system that you are running and continue with the rest of the installation according to the on-screen instructions.

13. When installation is done, click Finish.

Installing the printer driver for the network interface

Follow the steps below to install the printer driver for the network interface:

Note:
You must have at least 6 MB of free space on your hard disk drive to install the printer driver.

1. Insert the PostScript 3 Utility CD-ROM into your CD-ROM drive.

2. Click Start, then Settings, and finally Printers.

3. Double-click the Add Printer icon.

4. The Add Printer Wizard will be displayed. Click Next.

5. Select Network Printer when the screen asking How is this printer attached to your computer? appears.

6. Enter the printer's network path in the Network path or queue name field. You can also select the network printer by clicking Browse.

7. When the screen asking you to select the printer model is displayed, click Have Disk and specify the path to the appropriate INF file necessary for installation. If your CD-ROM drive is D:, the path will be D:\ENGLISH\WIN9X\PS_SETUP (change the drive letter as needed for your system).

8. Select the INF file for the version of the Windows operating system that you are running and continue with the rest of the installation according to the on-screen instructions.

9. When installation is done, click Finish.

Notice for Windows Me/98/95 Users

The printer may not print normally if the computer is connected to the printer via the parallel interface and the ECP mode is set. If this is the case, disable bi-directional support in the printer driver. To do so, display the printer's Properties dialog box, click the Details tab, then click the Spool Settings button. In the Spool Settings dialog box that appears, Select Disable bi-directional support for this printer, then click the OK button.

Printer driver settings

The printer driver enables you to change the settings for your print job. The settings are grouped into various categories that you can access by clicking the appropriate tab in the printer's Properties dialog box.

Online help is also available to help you with the settings. There are two online help options. Click the Help button for procedural help on the settings. If you want help on a particular item, click the '?' icon on the top-right corner of the dialog box's title bar and then click the name of the setting that you want more information on. An explanation of the setting and its options will be displayed.

Paper tab settings

Paper size

Select the desired paper size. This setting must match the size of the paper loaded in the printer. The paper sizes that are available will differ according to the printer. The default setting is either A4 or Letter, depending on your country of purchase.

Orientation

Specify how the document is to be positioned on the page. The options are Portrait (vertical) and Landscape (horizontal).

Collate

Select this check box to print multiple copies of the document in page order. If this check box is not selected, each page is printed out the specified number of times before the following page is printed.

Note:
If you select the Collate *option in the printer driver, do not set the* Collate *option in the application itself.*

Duplex

Select the desired duplex print style. Flip on long edge produces two-sided printouts that turn like a book, while Flip on short edge produces two-sided printouts that turn like a calendar.

Note:
For AL-C9000 users:
You need to install the optional Duplex Unit in order to use this feature.

Paper source

Select the paper source for your print job. The options are Auto Tray Select, MP Tray, Cassette 1, Cassette 2, Cassette 3, Manual Feed 1st Page, and Manual Feed EachPage. However, the actual paper sources that are available vary depending on the options installed.

Paper type

Select the desired paper type to print on. The options are Normal, Thick, Thick N (AL-C9000 only), Extra Thick (AL-C4100 only), Transparency, and Coated. Make sure to select the correct paper type to avoid smearing or wasting ink.

Margins

Click this button to set the margins for your printout. You can select to specify in Inches or Millimeters.

Restore Defaults

Click this button to reset the settings on this sheet to their default values.

Graphics tab settings

Resolution

Select the resolution that you want to print in. The options are Fast and Quality. The Quality setting prints at a higher resolution, but the printing time will be longer.

Print as a negative image

Select this check box if you want to print the document as a negative image. This feature prints by reversing the RGB or black-and-white values of the image, and is useful for printing black-and-white or coarse RGB images.

Print as a mirror image

Select this check box if you want to print the document as a mirror image. This feature prints by reversing the horizontal coordinates of the image.

Layout

Specify how many pages of your document to print on one sheet of paper. The options are 1-up, 2-up, 4-up, 6-up, 9-up, and 16-up.

Print page border

Select this check box if you want the borders of the pages to be printed when printing more than one page of the document on one sheet of paper.

Scaling

This setting enables you to shrink or enlarge the image to print. You can enter any percentage from 25% to 400%. To shrink the image, specify a percentage that is lower than 100%. To enlarge the image, specify a percentage that is higher than 100%. However, if you can shrink or enlarge the image to print in the application that you are printing from, do so in the application and not through the printer driver.

Restore Defaults

Click this button to reset the settings on this sheet to their default values.

Fonts tab settings

Send TrueType fonts to printer according to the Font Substitution Table

Select this radio button to have the computer download TrueType fonts to the printer according to the settings in the Font Substitution Table. This setting can speed up printing.

Edit the Table

Click this button to edit the Font Substitution Table.

Always use TrueType fonts

Select this radio button to have the computer always download all the TrueType fonts used in the document to be printed to the printer. This will slow down printing, but the fonts in the printout will be identical to that shown on the screen.

Add Euro Currency Symbol to PostScript Fonts

Select this check box to add the symbol for the Euro currency to the set of PostScript fonts residing on the printer.

Update Soft Fonts

Click this button to update the list of installed PostScript Type 1 fonts so that they are printed correctly.

Send Fonts As

Click this button to specify advanced settings for the downloading of fonts to the printer. See online help for details on each of the available settings.

Restore Defaults

Click this button to reset the settings on this sheet to their default values.

Device Options tab settings

Available printer memory (in KB)

Specify the amount of available printer memory. If the entered value does not match the actual amount of memory on the printer and printing problems occur, change the setting.

Available font cache (in KB)

Displays the amount of font cache memory available to Type 32 fonts. The printer driver automatically adjusts the font cache size according the memory setting specified under Installable options.

RITech

Select whether to use RITech when printing. RITech improves the appearance of printed lines, text, and graphics. The options are On and Off.

Toner Save Mode

Select whether to use the Toner Save Mode when printing. When the Toner Save Mode is turned on, the printer uses about 50% less toner than normal. The options are On and Off.

Separations

This setting enables you to select the color for separation printing. The options are None, Cyan, Magenta, Yellow, and Black.

Coloration

Specify a color printing method. Select from Color (1 bit/pixel color printing), Mono (monochrome printing), or True Color (8 bits/pixel color printing).

Color Model

Select the color model to be used for internal processing from the CMYK, and RGB. The Color Model is effective only when TrueColor is selected for Coloration.

RGB Color Mode

Sets the RGB color mode. Set to Photo for natural coloring, to Vivid for brighter, enhanced colors. Effective when RGB is selected for ColorModel.

True Color Screen

Select 8 bits/pixel color printing screen. This selection is effective when Coloration is set to True Color. Select from Increase Gradation or Increase Definition.

Press Simulation

Select Press Simulation. Select from None, DIC, Euroscale or SWOP. The Press Simulation function is useful when you print CMYK color data. You can easily make colors match CMYK color with the standard 3 offset colors.

Note:

- *This setting is effective only when CMYK is specified for Color Model setting.*
- *When using* Press Simulation, *set* Color Screen *to* Increased Gradation.

Collate

This setting enables you to print multiple copies of the document in page order. The options are On and Off. When Collate is set to Off, each page is printed out the specified number of times before the following page is printed.

Image Protect

This setting enables you to specify whether to use lossy compression when memory runs low during printing. The options are On and Off. When Image Protect is set to On, lossy compression is not used. If it is set to Off, lossy compression is used when memory resources are too low.

Start Page

Specify whether to start printing from the first page or second (back) page. The options are Front and Back. If Back is selected, the first page is left blank. This setting is enabled only when Print on Both Sides is selected.

Pure Black Mode

If this mode is set to Text Only*, Image Only or All, black toner will be used for the specified area. If set to Off, all toners (cyan, magenta, yellow and black) will be used in the black areas.

* For line art, set to Text Only.

Auto Mono Mode

Specify whether or not to use the Auto Monochrome detection function.

Installable options

The settings available under Installable options enable you to specify whether certain options are installed into the printer, and if so, what they are. Use the Change setting for drop-down list to specify the details of the options installed.

Restore Defaults

Click this button to reset the settings on this sheet to their default values.

PostScript tab settings

PostScript output format

Specify the format for PostScript files. The options are PostScript (optimize for speed), PostScript (optimize for portability-ADSC), Encapsulated PostScript (EPS), and Archive format. See online help for details on each of these formats.

PostScript header

This setting enables you to specify how header information is sent to the printer. The options are Download header with each print job and Assume header is downloaded and retained.

Send Header Now

Click this button to send the PostScript header information to the printer immediately. This button is available only when the Download header with each print job radio button is selected. If you click the Send Header Now button and then click OK, the Assume header is downloaded and retained radio button is automatically selected.

Print PostScript error information

Select this check box to have the printer automatically print out a page with PostScript error messages when an error occurs in the print job. Turn this option on if you are having printing problems.

Job timeout

Specify the maximum number of seconds that can elapse for a print job to get from the computer to the printer before the printer stops trying to print the document. If you enter "0" (zero), the printer will continue trying to print indefinitely.

Wait timeout

Specify the maximum number of seconds that the printer will wait to get more PostScript information from the computer before the print job is automatically canceled. After the specified time elapses, the printer will stop trying to print the document and prints an error message instead. If you enter "0" (zero), the printer will wait indefinitely.You may want to increase this value when printing complicated documents.

This setting enables you to prevent the printer from stalling if and when the computer that sends the print job stalls.

Advanced

Click this button to specify the following advanced PostScript options:

PostScript language level
Specify the PostScript language level to use. Select the highest PostScript language level that your printer supports to optimize its features. Use a lower PostScript language level only if you are experiencing printing problems or if you intend to print the file using another printer.

Data format
Select the data format to use. The options are ASCII data, Binary communications protocol, Tagged binary communications protocol, and Pure binary data.

If ASCII data is selected, print data is sent in the ASCII (7-bit) format, which may take longer to print, but which can be sent through any I/O channel, including serial, parallel, and Ethernet.

If you select Tagged binary communications protocol, all data except for special control characters is sent in binary (8-bit) format. The binary format can be sent over parallel or serial communications ports and are faster then sending data in the ASCII format. The Pure binary data setting sends all data in pure binary format, which is the fastest format to print in, but that can be sent only over AppleTalk.

Send Mode
This button is enabled only when the Binary communications protocol setting is selected. Click this button to send a message to the printer to turn on the Binary communications protocol. If the printer is turned off, check with the printer documentation to determine if you need to reset or resend any other information.

Send CTRL+D before job
Select this check box to specify for the CTRL+D character to be sent at the beginning of every PostScript document. CTRL+D at the beginning-of-file (BOF) will reset your printer to its default settings to ensure that prior print jobs will not affect the current print job. However, activating this setting may cause the print job to fail if it is connected through a network instead of the parallel or serial interface.

This setting is not available if Pure binary data is selected as the data format.

Send CTRL+D after job
Select this check box to specify for the CTRL+D character to be sent at the end of every PostScript document. CTRL+D at the end-of-file (EOF) will reset your printer to its default settings to ensure that the current print job will not affect future print jobs. However, activating this setting may cause the print job to fail if it is connected through a network instead of the parallel or serial interface.

This setting is not available if Pure binary data is selected as the data format.

Display alert for applications incompatible with driver features
Select this check box if you want the printer driver to display messages to alert you to incompatibilities between the printer's features and those of the application that you are using to print.

Restore Defaults

Click this button to reset the settings on this sheet to their default values.

Watermark tab settings

Select a watermark

Specify whether to use a watermark when printing. The options are None, CONFIDENTIAL, COPY, and DRAFT.

Edit

Click this button to edit the selected watermark. This button is not available when None is selected under Select a watermark.

New

Click this button to create a new watermark.

Delete

Click this button to delete the selected watermark. This button is not available when None is selected under Select a watermark.

Print watermark

Specify how the selected watermark should be printed. The options are On first page only, In background, and As outline only.

Windows NT 4.0 Users

To use the Adobe PostScript 3 Kit with Windows NT 4.0, you will have to install the printer driver. See the appropriate sections below for installation instructions according to the interface that you are using to print.

Note:
The USB interface is not available for printing under Windows NT 4.0.

Installing the printer driver for the parallel interface

Follow the steps below to install the printer driver for the parallel interface:

Note:
You must have at least 6 MB of free space on your hard disk drive to install the printer driver.

1. Insert the PostScript 3 Utility CD-ROM into your CD-ROM drive.

2. Click Start, then Settings, and finally Printers.

3. Double-click the Add Printer icon.

4. The Add Printer Wizard will be displayed. Follow the on-screen instructions until the screen asking you to select the printer model is displayed.

5. Click Have Disk and specify the path to the appropriate INF file necessary for installation. If your CD-ROM drive is D:, the path will be D:\ENGLISH\WINNT4\PS_SETUP (change the drive letter as needed for your system).

6. Select the INF file for the version of the Windows operating system that you are running and continue with the installation according to the on-screen instructions.

7. When installation is done, click Finish.

Installing the printer driver for the network interface

Follow the steps below to install the printer driver for the network interface:

Note:

- ❏ *To connect using a network interface, you must install the optional interface card into the printer.*

- ❏ *You must have at least 6 MB of free space on your hard disk drive to install the printer driver.*

1. Insert the PostScript 3 Utility CD-ROM into your CD-ROM drive.

2. Click Start, then Settings, and finally Printers.

3. Double-click the Add Printer icon.

4. The Add Printer Wizard will be displayed. Select Network printer server, and then click Next.

5. Enter the name of the printer or select the printer from the list of available printers on the network, and then click OK.

6. Click OK once the following message appears.

"The server on which the XXX printer resides does not have the correct printer driver installed."

7. Click Have Disk and specify the path to the appropriate INF file necessary for installation. If your CD-ROM drive is D:, the path will be D:\ENGLISH\WINNT4\PS_SETUP (change the drive letter as needed for your system).

8. Select the INF file for the version of the Windows operating system that you are running and continue with the installation according to the on-screen instructions.

9. When installation is done, click Finish.

Notice for Windows NT 4.0 Users

Unavailable paper sizes may appear in the paper size list for the selected paper source. See your printer manual to confirm the available paper sizes.

Print dialog box settings

The Print dialog box, which is accessed by selecting Print on the File menu of the application that you are using, enables you to specify print settings for the current document. The available settings are grouped under the Page Setup and Advanced tabs. See below for a brief description of each available setting.

Page Setup tab settings

Paper Size

Select the desired paper size. This setting must match the size of the paper loaded in the printer. The paper sizes that are available will differ according to the printer. The default setting is either A4 or Letter, depending on your country of purchase.

Paper Source

Select the paper source for your print job. The options are Auto Tray Select, MP Tray, Cassette 1, Cassette 2, Cassette 3, Manual Feed 1st Page, and Manual Feed EachPage. However, the actual paper sources that are available will differ according to the printer and the options installed.

Copy Count

Specify the number of copies to print.

Collate Copies

This check box appears only if more than one copy is specified for Copy Count. Select this check box to print multiple copies of the document in page order. If this check box is not selected, each page is printed out the specified number of times before the following page is printed.

Note:
If you select the Collate option in the printer driver, do not set the Collate option in the application itself.

Orientation

Specify how the document is to be positioned on the page. The options are Portrait (vertical), Landscape (horizontal), and Rotated (rotated 90° counterclockwise).

Color Appearance

Specify whether to print the document in grayscale or color. The options are Monochrome and Color.

Advanced tab settings

EPSON AL-C4100/9000 PS3 Document Settings

Undo Changed Option/s
Click this button to undo all the changes that have been made to the settings. The settings return to their default values. This button is enabled only if one or more of the default values have been changed.

About Adobe PostScript Printer Driver
Click this button to view information on the currently installed PostScript printer driver.

Paper/Output

Paper Size
If you specified the Paper Size setting on the Page Setup sheet, that setting is reflected here. To change this setting, select the desired paper size from the options displayed at the bottom of the dialog box. For more information on this setting, see "Paper Size" on page 33.

Orientation
If you specified the Orientation setting on the Page Setup sheet, that setting is reflected here. To change this setting, select the desired orientation from the options displayed at the bottom of the dialog box. For more information on this setting, see "Orientation" on page 34.

Paper Source
If you specified the Paper Source setting on the Page Setup sheet, that setting is reflected here. To change this setting, select the desired paper source from the options displayed at the bottom of the dialog box. For more information on this setting, see "Paper Source" on page 34.

Media
Select the desired paper type to print on. The options are Normal, Thick, Thick N (AL-C9000 only), Extra Thick (AL-C4100 only), Transparency, and Coated. Make sure to select the correct paper type to avoid smearing or wasting ink.

Copy Count
If you specified the Copy Count setting on the Page Setup sheet, that setting is reflected here. To change this setting, enter the desired number of pages to print into the text box at the bottom of the dialog box. For more information on this setting, see "Copy Count" on page 34.

Graphic

Resolution
Select the resolution that you want to print in. The options are Fast and Quality. The Quality setting prints at a higher resolution, but the printing time will be longer.

Color Appearance
If you specified the Color Appearance setting on the Page Setup sheet, that setting is reflected here. To change this setting, select the desired setting from the options displayed at the bottom of the dialog box. For more information on this setting, see "Color Appearance" on page 34.

Scaling
This setting enables you to shrink or enlarge the image to print. You can enter any percentage from 1% to 1000%. To shrink the image, specify a percentage that is lower than 100%. To enlarge the image, specify a percentage that is higher than 100%. When you enlarge a document, only the portion of the document that fits on the selected paper will be printed. If you can shrink or enlarge the image to print in the application that you are printing from, do so in the application.

TrueType Font
Specify how TrueType fonts in the document are printed. Select Substitute with Device Font to use equivalent PostScript fonts for printing documents that contain TrueType fonts. Select Download as Softfont to download TrueType fonts to the printer instead of using PostScript fonts.

If your document has overlapping text and graphics, select Substitute with Device Font. Using downloaded TrueType fonts to print when text and graphics overlap may cause output errors.

Document Options

Page Layout (N-up) Option
Specify how many pages of your document to print on one sheet of paper. The options are Normal (one-up), Two-up (1x2), Four-up (2x2), Six-up (2x3), Nine-up (3x3), and Sixteen-up (4x4).

PostScript Options

PostScript Output Option
Specify the format for PostScript files. The options are Optimize for Speed, Optimize for Portability, Encapsulated PostScript (EPS), and Archive Format. See online help for details on each of these formats.

TrueType Font Download Option
Specify how TrueType fonts are downloaded to the printer. The options are Automatic, Outline (scalable outline font), Bitmap (bitmap font), and Native TrueType (outline font).

PostScript Language Level
Specify the PostScript language level to use. The options are 2 and 3.

Send PostScript Error Handler
Specify whether the printer automatically prints out a page with PostScript error messages when an error occurs in the print job. The options are Yes and No.

Mirrored Output
Specify whether the document is printed as a mirror image by reversing the horizontal coordinates of the image. The options are Yes and No.

Printer Features

RITech
Select whether to use RITech when printing. RITech improves the appearance of printed lines, text, and graphics. The options are On and Off.

Toner Save Mode
Select whether to use the Toner Save Mode when printing. When the Toner Save Mode is turned on, the printer uses about 50% less toner than normal. The options are On and Off.

Separations
This setting enables you to select the color for separation printing. The options are None, Cyan, Magenta, Yellow, and Black.

Coloration
Specify a color printing method. Select from Color (1 bit/pixel color printing), Mono (monochrome printing), or True Color (8 bits/pixel color printing).

Color Model
Select the color model to be used for internal processing from the CMYK, and RGB. The Color Model is effective only when TrueColor is selected for Coloration.

RGB Color Mode
Sets the RGB color mode. Set to Photo for natural coloring, to Vivid for brighter, enhanced colors. Effective when RGB is selected for ColorModel.

True Color Screen
Select 8 bits/pixel color printing screen. This selection is effective when Coloration is set to True Color. Select from Increase Gradation or Increase Definition.

Press Simulation
Select Press Simulation. Select from None, DIC, Euroscale or SWOP. The Press Simulation function is useful when you print CMYK color data. You can easily make colors match CMYK color with the standard 3 offset colors.

Note:

- *This setting is effective only when CMYK is specified for Color Model setting.*

- *When using* Press Simulation, *set* Color Screen *to* Increased Gradation.

Image Protect
This setting enables you to specify whether to use lossy compression when memory runs low during printing. The options are On and Off. When Image Protect is set to On, lossy compression is not used. If it is set to Off, lossy compression is used when memory resources are too low.

Collate
This setting enables you to print multiple copies of the document in page order. The options are On and Off. When Collate is set to Off, each page is printed out the specified number of times before the following page is printed.

Start Page
Specify whether to start printing from the first page or second (back) page. The options are Front and Back. If Back is selected, the first page is left blank. This setting is enabled only when Print on Both Sides is selected.

Pure Black Mode
If this mode is set to Text Only*, Image Only or All, black toner will be used for the specified area. If set to Off, all toners (cyan, magenta, yellow and black) will be used in the black areas.

* For line art, set to Text Only.

Auto Mono Mode
Specify whether or not to use the Auto Monochrome detection function.

Printer driver settings

Printer settings specific to your printer are available on the Device Settings sheet of the printer's Properties dialog box.

Online help is available to help you with the settings. If you want help on a particular item, click the '?' icon on the top-right corner of the dialog box's title bar and then click the name of the setting that you want more information on. An explanation of the setting and its options will be displayed.

EPSON AL-C4100/9000 PS 3 Device Settings

Undo Changed Option/s

Click this button to undo all the changes that have been made to the settings. The settings return to their default values. This button is enabled only if one or more of the default values have been changed.

About Adobe PostScript Printer Driver

Click this button to view information on the currently installed PostScript printer driver.

Form To Tray Assignment

Assign the desired paper size to the various available paper sources. Once this setting is specified, the printer will automatically feed paper from the paper source that holds the selected paper size.

The paper source options are MP Tray, Cassette 1, Cassette 2, Cassette 3, Manual Feed 1st Page, and Manual Feed EachPage. However, the actual paper sources that are available will differ according to the printer and the options installed.

The paper sizes that are available will differ according to the printer. The default setting is either A4 or Letter, depending on your country of purchase.

Font Substitution Table

Double-click to display the Font Substitution Table and the options for the TrueType-to-PostScript font mapping.

Available PostScript Memory

Specify the amount of available PostScript memory. The available PostScript memory is a subset of the printer's total physical memory. It is recommended that you use the default setting.

Output Protocol

Specify the protocol that the printer will use for print jobs. The options are ASCII, TBCP, and Binary.

If ASCII is selected, print data is sent in the ASCII (7-bit) format, which may take longer to print, but which can be sent through any I/O channel, including serial, parallel, and Ethernet.

If you select TBCP (Tagged Binary Communications Protocol), all data except for special control characters is sent in binary (8-bit) format. The binary formats can be sent over parallel or serial communications ports and are faster then sending data in the ASCII format.

Send CTRL-D Before Each Job

Specify whether a CTRL+D character should be sent at the beginning of every PostScript document. CTRL+D at the beginning-of-file (BOF) will reset your printer to its default settings to ensure that prior print jobs will not affect the current print job. However, activating this setting may cause the print job to fail if it is connected through a network instead of the parallel or serial interface.

Send CTRL-D After Each Job

Specify whether a CTRL+D character should be sent at the end of every PostScript document. CTRL+D at the end-of-file (EOF) will reset your printer to its default settings to ensure that the current print job will not affect future print jobs. However, activating this setting may cause the print job to fail if it is connected through a network instead of the parallel or serial interface.

Job Timeout

Specify the maximum number of seconds that can elapse for a print job to get from the computer to the printer before the printer stops trying to print the document. If you enter "0" (zero), the printer will continue trying to print indefinitely.

Wait Timeout

Specify the maximum number of seconds that the printer will wait to get more PostScript information from the computer before the print job is automatically canceled. After the specified time elapses, the printer will stop trying to print the document and prints an error message instead. If you enter "0" (zero), the printer will wait indefinitely. You may want to increase this value when printing complicated documents.

Minimum Font Size to Download as Outline

Specify the minimum font size (in pixels) for which the printer driver will download TrueType fonts as outline (Type 1) fonts. A font smaller than the minimum setting will be downloaded as a bitmap (Type 3/Type 32) font.

Maximum Font Size to Download as Bitmap

Specify the maximum font size (in pixels) for which the printer driver will download TrueType fonts as bitmap (Type 3/Type 32) fonts. A font larger than the maximum setting will be downloaded as an outline (Type 1) font.

Installable Options

The settings available under Installable Options enable you to specify whether certain options are installed into the printer, and if so, what they are. The available settings are Installed Memory, Lower Cassette Unit, and Duplex Unit (AL-C9000 only).

Windows XP, Windows 2000 Users

To use the Adobe PostScript 3 Kit with Windows XP and Windows 2000, you will have to install the printer driver. See the appropriate sections below for installation instructions according to the interface that you are using to print.

Installing the printer driver for the parallel interface

Follow the steps below to install the printer driver for the parallel interface:

Note:
You must have at least 6 MB of free space on your hard disk drive to install the printer driver.

1. Insert the PostScript 3 Utility CD-ROM into your CD-ROM drive.

2. Click Start, then Settings, and finally Printers.

   Note:
   If your computer is running Windows XP, click Start *and then click* Printers and Faxes.

3. Double-click the Add Printer icon.

   Note:
   If your computer is running Windows XP, click Add a printer *under* Printer Tasks.

4. The Add Printer Wizard will be displayed. Follow the on-screen instructions until the screen asking you to select the printer model is displayed.

5. Click Have Disk and specify the path to the appropriate INF file necessary for installation. If your CD-ROM drive is D:, the path will be D:\ENGLISH\WIN2000-XP\PS_SETUP (change the drive letter as needed for your system).

6. Select the INF file for the version of the Windows operating system that you are running and continue with the installation according to the on-screen instructions.

7. When installation is done, click Finish.

Installing the printer driver for the USB interface

Follow the steps below to install the printer driver for the USB interface:

Note:
You must have at least 6 MB of free space on your hard disk drive to install the printer driver.

1. Without connecting the printer to the computer, turn on both the computer and the printer.

2. Once Windows has started, connect the computer to the printer with a USB cable.

3. The Add New Hardware Wizard will launch automatically. Click Next to start the installation of the USB printer driver.

4. After the USB printer driver installation is done, the Add Printer Wizard will launch automatically. Follow the on-screen instructions to continue with the installation until the screen asking you to select the printer model is displayed.

5. Click Have Disk and specify the path to the appropriate INF file necessary for installation. If your CD-ROM drive is D:, the path will be D:\ENGLISH\WIN2000-XP\PS_SETUP (change the drive letter as needed for your system).

6. Select the INF file for the version of the Windows operating system that you are running and continue with the rest of the installation according to the on-screen instructions.

7. When installation is done, click Finish.

Installing the printer driver for the network interface

Follow the steps below to install the printer driver for the network interface:

Note:

- ❏ *To connect using a network interface, you must install the optional interface card into the printer.*
- ❏ *You must have at least 6 MB of free space on your hard disk drive to install the printer driver.*

1. Insert the PostScript 3 Utility CD-ROM into your CD-ROM drive.
2. Click Start, then Settings, and finally Printers.

   Note:
   If your computer is running Windows XP, click Start *and then click* Printers and Faxes.

3. Double-click the Add Printer icon.

   Note:
   If your computer is running Windows XP, click Add a printer *under* Printer Tasks.

4. The Add Printer Wizard will be displayed. Click Next.
5. Select Network printer in the screen that appears.

   Note:
   If your computer is running Windows XP, click A network printer, or a printer attached to another computer.

6. Click Next to browse for and select the printer on the network.

7. Click OK when the following message appears:

   "The server on which the XXX printer resides does not have the correct printer driver installed."

8. When the screen asking you to select the printer model is displayed, click Have Disk and specify the path to the appropriate INF file necessary for installation. If your CD-ROM drive is D:, the path will be D:\ENGLISH\WIN2000-XP\PS_SETUP (change the drive letter as needed for your system).

9. Select the INF file for the version of the Windows operating system that you are running and continue with the rest of the installation according to the on-screen instructions.

10. When installation is done, click Finish.

Notice for Windows XP/2000 users

Unavailable paper sizes may appear in the Paper Size list in the printer driver. See your printer manual to confirm the available paper sizes.

Printer driver settings

Printer settings specific to your printer are available through the Device Settings tab of the printer's Properties dialog box. In addition to the settings there, click the Printing Preferences button on the General sheet or the Printing Defaults button on the Advanced sheet for more print settings. The basic print settings are grouped under the Layout and Paper/Quality tabs, while more advanced settings are available by clicking the Advanced button on either sheet.

Online help is also available to help you with the settings. There are two online help options. Click the Help button for procedural help on the settings. If you want help on a particular item, click the '?' icon on the top-right corner of the dialog box's title bar and then click the name of the setting that you want more information on. An explanation of the setting and its options will be displayed.

Device Settings tab settings

Form To Tray Assignment

Assign the desired paper size to the various available paper sources. Once this setting is specified, the printer will automatically feed paper from the paper source that holds the selected paper size.

The paper source options are MP Tray, Cassette 1, Cassette 2, Cassette 3, Manual Feed 1st Page, and Manual Feed EachPage. However, the actual paper sources that are available will differ according to the printer and the options installed.

The paper sizes that are available will differ according to the printer. The default setting is either A4 or Letter, depending on your country of purchase.

Font Substitution Table

Double-click to display the Font Substitution Table and the options for the TrueType-to-PostScript font mapping.

Available PostScript Memory

Specify the amount of available PostScript memory. The available PostScript memory is a subset of the printer's total physical memory. It is recommended that you use the default setting.

Output Protocol

Specify the protocol that the printer will use for print jobs. The options are ASCII, TBCP, and Binary.

If ASCII is selected, print data is sent in the ASCII (7-bit) format, which may take longer to print, but which can be sent through any I/O channel, including serial, parallel, and Ethernet.

If you select TBCP (Tagged Binary Communications Protocol), all data except for special control characters is sent in binary (8-bit) format. The binary formats can be sent over parallel or serial communications ports and are faster then sending data in the ASCII format.

Send CTRL-D Before Each Job

Specify whether a CTRL+D character should be sent at the beginning of every PostScript document. CTRL+D at the beginning-of-file (BOF) will reset your printer to its default settings to ensure that prior print jobs will not affect the current print job.

However, activating this setting may cause the print job to fail if it is connected through a network instead of the parallel or serial interface. Conversely, if your document fails to print when sent to a printer connected through a parallel or serial port, change the setting to Yes.

Send CTRL-D After Each Job

Specify whether a CTRL+D character should be sent at the end of every PostScript document. CTRL+D at the end-of-file (EOF) will reset your printer to its default settings to ensure that the current print job will not affect future print jobs.

However, activating this setting may cause the print job to fail if it is connected through a network instead of the parallel or serial interface. If your document fails to print when sent to a network printer, change the setting to No.

Convert Gray Text to PostScript Gray

Specify whether to convert true gray (RGB value) in text to the gray provided by the PostScript driver.

Convert Gray Graphics to PostScript Gray

Specify whether to convert true gray (RGB value) in graphics to the gray provided by the PostScript driver.

Add Euro Currency Symbol to PostScript Fonts

Specify whether to add the symbol for the Euro currency to the set of PostScript fonts residing on the printer.

Job Timeout

Specify the maximum number of seconds that can elapse for a print job to get from the computer to the printer before the printer stops trying to print the document. If you enter "0" (zero), the printer will continue trying to print indefinitely.

Wait Timeout

Specify the maximum number of seconds that the printer will wait to get more PostScript information from the computer before the print job is automatically canceled. After the specified time elapses, the printer will stop trying to print the document and prints an error message instead. If you enter "0" (zero), the printer will wait indefinitely.You may want to increase this value when printing complicated documents.

Minimum Font Size to Download as Outline

Specify the minimum font size (in pixels) for which the printer driver will download TrueType fonts as outline (Type 1) fonts. A font smaller than the minimum setting will be downloaded as a bitmap (Type 3) font.

This setting enables you to fine-tune the Automatic setting for the TrueType Font Download Option setting on the Advanced Options dialog box of the Printing Preferences dialog box.

Maximum Font Size to Download as Bitmap

Specify the maximum font size (in pixels) for which the printer driver will download TrueType fonts as bitmap (Type 3) fonts. A font larger than the maximum setting will be downloaded as an outline (Type 1) font.

This setting enables you to fine-tune the Automatic setting or override the Bitmap setting for the TrueType Font Download Option setting on the Advanced Options dialog box of the Printing Preferences dialog box.

Installable Options

The settings available under Installable Options enable you to specify whether certain options are installed into the printer, and if so, what they are. The available settings are Installed Memory, Lower Cassette Unit, and Duplex Unit (AL-C9000 only).

Layout tab settings

Orientation

Specify how the document is to be positioned on the page. The options are Portrait (vertical), Landscape (horizontal), and Rotated Landscape (rotated 90° counterclockwise).

Page Order

Specify the order in which the pages of the document will be printed. The options are Front to Back and Back to Front.

Pages Per Sheet

Specify how many pages of your document to print on one sheet of paper. The options are 1, 2, 4, 6, 9, and 16.

Paper/Quality tab settings

Paper Source

Select the paper source for your print job. The options are Auto Tray Select, MP Tray, Cassette 1, Cassette 2, Cassette 3, Manual Feed 1st Page, and Manual Feed EachPage. However, the actual paper sources that are available will differ according to the printer and the options installed.

Media

Select the desired paper type to print on. The options are Normal, Thick, Thick N (AL-C9000 only), Extra Thick (AL-C4100 only), Transparency, and Coated. Make sure to select the correct paper type to avoid smearing or wasting ink.

Color

Specify how color images should be printed. The options are Black & White and Color.

Advanced settings

Paper Size

Select the desired paper size. This setting must match the size of the paper loaded in the printer. The paper sizes that are available will differ according to the printer. The default setting is either A4 or Letter, depending on your country of purchase.

Copy Count

Specify the number of copies to print.

Collated

This check box appears only if more than one copy is specified for Copy Count. Select this check box to print multiple copies of the document in page order. If this check box is not selected, each page is printed out the specified number of times before the following page is printed.

Note:
If you select the Collate *option in the printer driver, do not set the* Collate *option in the application itself.*

Print Quality

Select the resolution that you want to print in. The options are Fast and Quality. The Quality setting prints at a higher resolution, but the printing time will be longer.

ICM Method

Specify whether to enable Image Color Management, and if so, how it should be handled. The options are ICM Disabled, ICM Handled by Host System, ICM handled by Printer, and ICM Handled by Printer using printer calibration. See online help for details on each of these settings

ICM Intent

Specify how color images are to be treated to produce the best possible printout. The options are Graphics (charts, bright colors), Pictures (photos), Proof (print in a specific ink color), and Match (preview color settings from another printer).

Scaling

This setting enables you to shrink or enlarge the image to print. You can enter any percentage from 1% to 1000%. To shrink the image, specify a percentage that is lower than 100%. To enlarge the image, specify a percentage that is higher than 100%. If you can shrink or enlarge the image to print in the application that you are printing from, do so in the application and not through the printer driver.

TrueType Font

Specify how TrueType fonts in the document are printed. Select Substitute with Device Font to use equivalent PostScript fonts for printing documents that contain TrueType fonts. Select Download as Softfont to download TrueType fonts to the printer instead of using PostScript fonts.

Advanced Printing Features

Specify whether to enable the advanced printing features. The options are Enabled and Disabled.

PostScript Output Option

Specify the format for PostScript files. The options are Optimize for Speed, Optimize for Portability, Encapsulated PostScript (EPS), and Archive format. See online help for details on each of these formats.

TrueType Font Download Option

Specify how TrueType fonts are downloaded to the printer. The options are Automatic, Outline (scalable outline font), Bitmap (bitmap font), and Native TrueType (outline font).

PostScript Language Level

Specify the PostScript language level to use. The options are 1, 2, and 3.

Send PostScript Error Handler

Specify whether the printer automatically prints out a page with PostScript error messages when an error occurs in the print job. The options are Yes and No.

Mirrored Output

Specify whether the document is printed as a mirror image by reversing the horizontal coordinates of the image. The options are Yes and No.

RITech

Select whether to use RITech when printing. RITech improves the appearance of printed lines, text, and graphics. The options are On and Off.

Toner Save Mode

Select whether to use the Toner Save Mode when printing. When the Toner Save Mode is turned on, the printer uses about 50% less toner than normal. The options are On and Off.

Separations

This setting enables you to select the color for separation printing. The options are None, Cyan, Magenta, Yellow, and Black.

Coloration

Specify a color printing method. Select from Color (1 bit/pixel color printing), Mono (monochrome printing), or True Color (8 bits/pixel color printing).

Color Model

Select the color model to be used for internal processing from the CMYK, and RGB. The Color Model is effective only when TrueColor is selected for Coloration.

RGB Color Mode

Sets the RGB color mode. Set to Photo for natural coloring, to Vivid for brighter, enhanced colors. Effective when RGB is selected for ColorModel.

True Color Screen

Select 8 bits/pixel color printing screen. This selection is effective when Coloration is set to True Color. Select from Increase Gradation or Increase Definition.

Press Simulation

Select Press Simulation. Select from None, DIC, Euroscale or SWOP. The Press Simulation function is useful when you print CMYK color data. You can easily make colors match CMYK color with the standard 3 offset colors.

Note:

- ❏ *This setting is effective only when CMYK is specified for Color Model setting.*

- ❏ *When using* Press Simulation, *set* Color Screen *to* Increased Gradation.

Image Protect

This setting enables you to specify whether to use lossy compression when memory runs low during printing. The options are On and Off. When Image Protect is set to On, lossy compression is not used. If it is set to Off, lossy compression is used when memory resources are too low.

Collate

This setting enables you to print multiple copies of the document in page order. The options are On and Off. When Collate is set to Off, each page is printed out the specified number of times before the following page is printed.

Start Page

Specify whether to start printing from the first page or second (back) page. The options are Front and Back. If Back is selected, the first page is left blank. This setting is enabled only when Print on Both Sides is selected.

Pure Black Mode

If this mode is set to Text Only*, Image Only or All, black toner will be used for the specified area. If set to Off, all toners (cyan, magenta, yellow and black) will be used in the black areas.

* For line art, set to Text Only.

Auto Mono Mode

Specify whether or not to use the Auto Monochrome detection function.

Reserve Job Function

A printer installed with the optional Hard Disk Drive can use the Reserve Job function. The Reserve Job function makes it possible to reserve printing data that are sent from a computer to the printer's hard disk. Data can be printed by operating the printer control panel.

The Reserve Job function has the following four features:

Reserve Job Option	Description
Re-Print Job	Print the job immediately, as well as store it for later reprinting.
Verify Job	Print one copy immediately for content verification before printing multiple copies.
Stored Job	Save the print job without printing it.
Confidential Job	Specify a password for the print job and save it for later printing.

Note:

- ❏ *Refer to the printer's Reference Guide for more details on the use of the Reserve Job function.*
- ❏ *The Reserve Job function cannot be used when the optional Hard Disk Drive is not installed in the printer.*
- ❏ *When multiple copies are selected for printout, turn the Collate function on in the printer driver setting. When you print out by using the printer's control panel, first specify the necessary number of copies on the control panel, and then start the print job.*
- ❏ *The Reserve Job function cannot be used when you are printing by using the AppleTalk protocol in Windows NT4.0/2000. When you are using the AppleTalk protocol, do not use the Reserve Job function. Use any protocol other than the AppleTalk protocol when using the Reserve Job function.*

❏ *Make sure to clear the Job Management On check box on the Job Settings sheet when outputting data as a PS file. The Job Management check box is selected by default so that the job information is attached to the print data when it is sent to the printer.*

Using the Reserve Job function

Settings for the Reserve Job function are carried out in the PostScript printer driver. Follow the instructions below to specify Reserve Job function settings:

Note:
The Reserve Job function can be used only when the printer is equipped with the optional Hard Disk Drive. The Hard Disk Option setting must be set to Installed *in the PostScript printer driver in order to use the Reserve Job function in Windows NT4.0/2000/XP. Before using the Reserve Job function, make sure that the Hard Disk setting is set to* Installed *in the Device Options sheet in the printer driver or under the Installable Option setting in the Device Settings sheet. This setting does not appear in Windows 95/98/Me.*

Follow these steps to use the Reserve Job function when printing from any application:

1. Click Print under the application's File menu.

2. Click the Properties button, and then click the Job Settings tab.

3. Specify the desired Reserve Job settings in the dialog box that appears.

4. When printing multiple copies, select the Collated check box in the Advanced settings of the printer driver.

5. When you are done with the settings, click the Print button to print.

Note:
Refer to the printer's Reference Guide for details on the individual settings in the Job Settings sheet.

CPS Utility

The EPSON CPS Utility is included on the PostScript 3 Utility CD-ROM. The CPS Utility has the following three main functions:

- ❏ Enables you to download a PS formatted data file directly to the printer, and print the file without opening the application used to create the data.

  Note:
  This function can be used only with PostScript files. Other file formats, such as EPS, PDF, and TIFF, are not supported.

- ❏ Enables you to print out the calibration sheet necessary for calibrating color.

- ❏ Enables you to transfer the color calibration data to the printer, as well as delete or verify it. The optional EPSON Color Calibrator is necessary to generate calibration data.

  Note:
  For detailed information on color calibration, refer to the section under "Color Calibrator" on page 60 and the CPS Utility User's Guide (PDF file) in the [cps_util] folder on the PostScript 3 Utility CD-ROM.

Installing the CPS Utility

Click the Setup.exe icon in the cps_util\setup folder on the PostScript 3 Utility CD-ROM, and follow the on-screen instructions.

Once the software has been installed, it can be started by selecting Start\Programs\EPSON\CPS Utility.

Note:

- ❏ *Refer to the Help file for details on using the CPS Utility.*

- ❏ *You need to connect the printer via Ethernet in order to use the CPS Utility. Refer to the CPS Utility User's Guide for details on system requirements as well as the installation procedure for the CPS Utility.*

Color Calibrator

In addition to the CPS Utility, the PostScript 3 Utility CD-ROM contains the Color Calibrator software. The Color Calibrator software is necessary to generate calibration data by using the optional EPSON Color Calibrator.

Note:

Refer to the EPSON Color Calibrator User's Guide and CPS Utility User's Guide for details on using the Color Calibrator software.

Printer Calibration

You can minimize the discrepancies that may occur in the color of documents output from different printers by performing color calibration. Color calibration works only if you are using the same model printers of the same brand.
You can also match the color response of your printers to that of a commercial printing system so that you may preview the final printed product on your printer before ordering a large job from a printing vendor.
Printer calibration is performed by using the CPS Utility and the Color Calibrator software together with the optional EPSON Color Calibrator.

Installing the Color Calibrator

Click the Setup.exe icon in the cps_cal\Color Calibrator folder on the PostScript 3 Utility CD-ROM, and follow the on-screen instructions.

Once the software has been installed, it can be started by selecting Start\Programs\EPSON Color Calibrator 3.0\Printer Calibrator.

Calibration Procedure

This section outlines the color calibration procedure. See the CPS Utility User's Guide for further details.

1. Start the CPS Utility and print out a calibration sheet. Make sure to print out the calibration sheet that corresponds to the printing mode to be calibrated.

2. Generate the calibration data from the calibration sheet by using the optional EPSON Color Calibrator and Color Calibrator software.

3. Transfer the calibration data to the printer by using the CPS Utility.

4. Print out a status sheet by using the CPS Utility to confirm that the calibration data has been saved in the printer.

   Note:
   You can also delete the calibration data saved in the printer. See the CPS Utility User's Guide for instructions.

Online Help Using the Printer Driver

Online help is available to help you with the printer driver settings. There are two online help options. Click the Help button for procedural help on the settings. If you want help on a particular item, click the '?' icon on the top-right corner of the dialog box's title bar and then click the name of the setting that you want more information on. An explanation of the setting and its options will be displayed.

Using AppleTalk Under Windows 2000 or Windows NT 4.0

Use the following settings if your machine is running Windows NT 4.0 or Windows 2000, and the printer is connected through an optional network card using the AppleTalk protocol:

- ❏ Use SelecType to set the Emulation Mode-Network item to PS3. Using the default Auto setting will cause an extra, unneeded page to be printed.

- ❏ On the Device Settings sheet of the printer's Properties dialog box, make sure that SEND CTRL-D Before Each Job and SEND CTRL-D After Each Job are set to No.

- ❏ TBCP (Tagged binary communications protocol) cannot be used as the Output Protocol setting.

Chapter 3

Using the Adobe PostScript 3 Kit with Macintosh

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Mac OS 8.6, Mac OS 9.x Users

Installing the Printer Driver

The Installer program that is included in the PostScript 3 Utility CD-ROM installs the PostScript driver. Before installing the printer driver, make sure that your hard disk has at least 3.1 MB of free space.

The installer program has two installation methods: Easy Install and Custom Install.

Easy Install installs all the files necessary to use the Adobe PostScript 3 Kit. Normally, you should use the Easy Install method since this ensures that all necessary files are copied and that your computer is set up to give you the full benefit of the Adobe PostScript 3 Kit.

Custom Install installs only the files that you specify. You might want to use the Custom Install method if you are low on hard disk space and want to install only those files that are absolutely required. However, if you have enough free disk space, it is recommended that you choose the Easy Install method.

Easy Install

If your Macintosh starts up any applications automatically (such as a virus checker) when the computer is turned on, quit the applications before running the Installer.

Follow the steps below to install the printer driver:

1. Turn on your Macintosh if it is not already on.

2. Insert the PostScript 3 Utility CD-ROM into your CD-ROM drive.

3. Double-click the CD-ROM icon, and then double-click English.

4. Double-click AdobePS 8.7, and then double-click AdobePS Installer.

5. Follow the on-screen instructions until the install screen is displayed.

6. Select Easy Install, and then click Install.

7. When installation is done, click Restart to restart your computer.

This completes the installation of the printer driver. You now need to select the printer driver as described in the next section.

If you are connecting two or more EPSON printers of the same model using AppleTalk, and you want to rename the printer, see the *Administrator's Guide* that shipped with the printer.

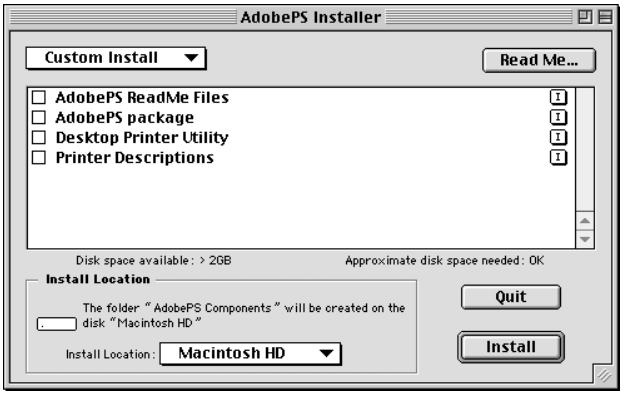
Custom Install

If your Macintosh starts up any applications automatically (such as a virus checker) when the computer is turned on, quit the applications before running the Installer.

To perform a Custom Install, in which you specify which files to install, follow steps 1 to 5 of the Easy Install method (see previous section), and then do the following:

1. Select Custom Install.

2. Select the item(s) that you want to install.



Note:
If you want information on a particular item, click the I *icon to the right of that item.*

3. Click Install.

4. When installation is done, click Quit.

5. Restart your computer.

This completes the installation of the printer software. You now need to select the printer driver as described in the next section.

If you are not able to print after a Custom Install, perform the Easy Install installation to copy all necessary files to your computer.

If you are connecting two or more printers of the same model using AppleTalk, and you want to rename the printer, see the *Administrator's Guide* that shipped with the printer.

CPS Utility

The EPSON CPS Utility is included on the PostScript 3 Utility CD-ROM. The CPS Utility has the following three main functions:

- ❏ Enables you to download a PS formatted data file directly to the printer, and print the file without opening the application used to create the data.

  Note:
  This function can be used only with PostScript files. Other file formats, such as EPS, PDF, and TIFF, are not supported.

- ❏ Enables you to print out the calibration sheet necessary for calibrating color.

- ❏ Enables you to transfer the color calibration data to the printer, as well as delete or verify it. The optional EPSON Color Calibrator is necessary to generate calibration data.

  Note:
  - ❏ *For detailed information on color calibration, refer to the section under "Color Calibrator" on page 69 and the Online Guide (PDF file) in the CPS Utility folder on the PostScript 3 Utility CD-ROM.*

❏ *The CPS Utility supports Mac OS 8.6 and Mac OS 9.x only. It does not support Mac OS X, including its Classic environment.*

Installing the CPS Utility

To install the CPS Utility, double-click the Installer icon located inside the CPS Utility folder on the PostScript 3 Utility CD-ROM, and follow the on-screen instructions. Running the Installer will create the EPSON CPS Utility folder on your computer.

Note:
You need to connect the printer via Ethernet in order to use the CPS Utility. Refer to the Online Guide (PDF file) inside the CPS Utility folder on the PostScript 3 Utility CD-ROM for details on system requirements as well as the installation procedure for the CPS Utility.

Color Calibrator

In addition to the CPS Utility, the PostScript 3 Utility CD-ROM contains the Color Calibrator software. The Color Calibrator software is necessary to generate calibration data by using the optional EPSON Color Calibrator.

Note:
❏ *For detailed information on the Color Calibrator software, refer to the Color Calibrator User's Guide (PDF file) in the CPS Calibrator folder and the Online Guide (PDF file) in the CPS Utility folder on the PostScript 3 Utility CD-ROM.*

❏ *The Color Calibrator software supports Mac OS 8.6 and Mac OS 9.x only. It does not support Mac OS X, including its Classic environment.*

Printer Calibration

You can minimize the discrepancies that may occur in the color of documents output from different printers by performing color calibration. Color calibration works only if you are using the same model printers of the same brand.
You can also match the color response of your printers to that of a commercial printing system so that you may preview the final printed product on your printer before ordering a large job from a printing vendor.
Printer calibration is performed by using the CPS Utility and the Color Calibrator software together with the optional EPSON Color Calibrator.

Installing the Color Calibrator

To install the Color Calibrator software, double-click the Installer icon in the CPS Calibrator folder on the PostScript 3 Utility CD-ROM, and follow the on-screen instructions.

Calibration Procedure

This section outlines the color calibration procedure. See the Online Guide for further details.

1. Start the CPS Utility and print out a calibration sheet. Make sure to print out the calibration sheet that corresponds to the printing mode to be calibrated.

2. Generate the calibration data from the calibration sheet by using the optional EPSON Color Calibrator and Color Calibrator software.

3. Transfer the calibration data to the printer by using the CPS Utility.

4. Print out a status sheet by using the CPS Utility to confirm that the calibration data has been saved in the printer.

Note:
You can also delete the calibration data saved in the printer. See the Online Guide for instructions.

Selecting the Printer When It Is Connected via a USB Connection

If the printer is connected to your computer via a USB port, you will not be able to select the printer from the Chooser. You will have to launch the Apple Desktop Printer Utility and register the printer as a Desktop Printer. The Desktop Printer Utility is automatically installed when you install the Adobe PostScript printer driver. The Desktop Printer is created through the following procedure:

Note:

- *When printing via the USB port from a Power Macintosh running Mac 0S 8.6 or 9.x, the printer must be set to handle ASCII data. To specify this setting, select* Print *from the File menu of the application that you are using, and then select the name of the application from the options available in the Print dialog box. On the setup option page that appears, select ASCII for the data format setting. The actual setting name varies by application, but is often called Encoding or Data.*

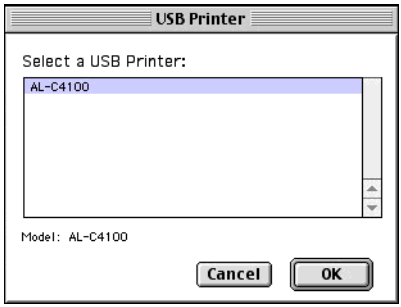
- *For best results, you should connect the printer directly to the computer's USB port. If you must use multiple USB hubs, we recommend that you connect the printer to the first-tier hub.*

- *Manual duplex printing cannot be performed if the printer is connected to the Macintosh via a USB port. In this case, do not select* Print on Both Sides *on the* Layout *setup option page in the Print dialog box.*

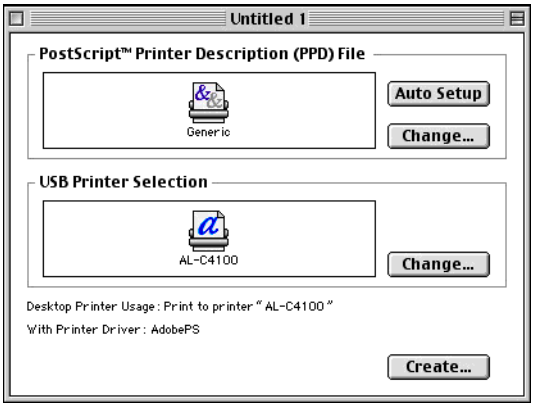
1. Launch the Desktop Printer Utility.
   The Desktop Printer Utility is located in the AdobePS Components folder on your Macintosh HD after an Easy Install of the printer driver.

2. A dialog box like the one shown below will be displayed. Select AdobePS from the With pop-up menu, click Printer (USB) in the Create Desktop list, and then click OK.

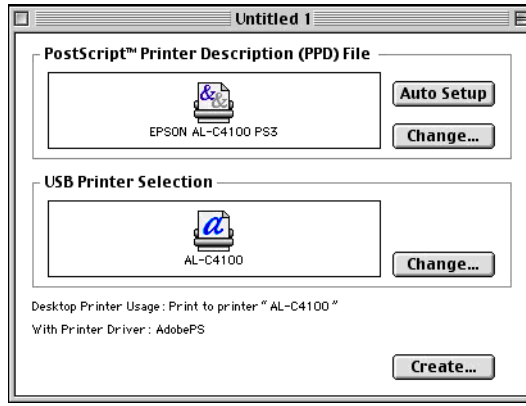
3. Click Change under USB Printer Selection in the dialog box that appears to select the printer. The dialog box shown below will be displayed, showing a list of connected USB printers. Select AL-C4100 or AL-C9000 depending on the model of your printer from the list, and then click OK.



4. Click Auto Setup to select the PostScript Printer Description (PPD) file. When a PPD file is selected, the selected printer name will be displayed under the printer icon.
If the printer name is incorrect, click Change, and then select the correct PPD file. The PPD files are located in System Folder\Extensions\Printer Descriptions.



5. After the USB printer and PPD file have been selected, click Create at the bottom of the dialog box. The USB printer icon will be displayed on the desktop.



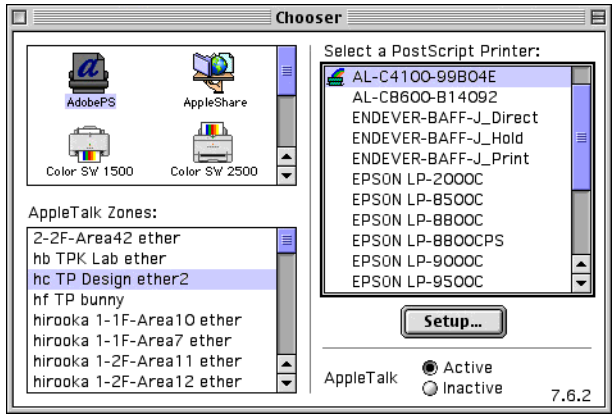
You can now print using the printer connected to your computer via the USB port. Use the Chooser if you want to print to a printer using AppleTalk.

Selecting the Printer in a Networked Environment

If the printer is connected through the Ethernet interface or an optional network card, select it from the Chooser as described below.

Note:
If the printer is connected to your computer via a USB port, see the previous section entitled "Selecting the Printer When It Is Connected via a USB Connection" on page 71 for information on how to select the printer.

1. In the Apple menu, select Chooser. The Chooser dialog box appears.



2. Make sure that AppleTalk is active.

3. Click the AdobePS icon to select it. The name of your printer appears in the Select a PostScript Printer box.

   Note:
   By default, the six-digit MAC address is displayed after the printer name if the printer is connected through an optional network card. Refer to your network card manual for details.

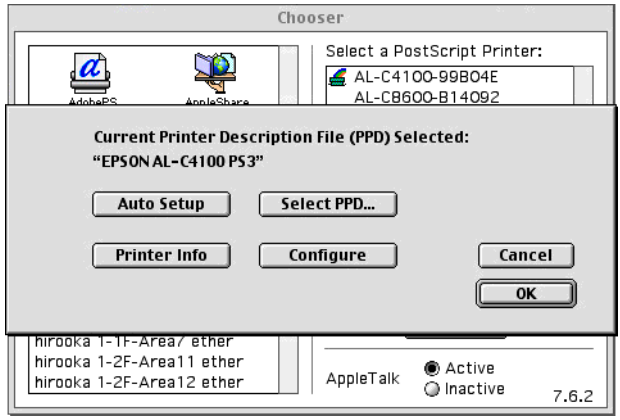
4. Click on the name of your printer to select it. The Create button appears.

   Note:
   If your computer is connected to more than one AppleTalk zone, click the AppleTalk zone your printer is connected to in the AppleTalk Zones *list.*

5. Click Create.

A message will appear marking the completion of the setup. The Chooser dialog box will be displayed again. (The Create button changes into the Setup button.)

To confirm that the setup completed successfully, click Setup in the Chooser dialog box, and then click Printer Info and Configure to check the settings.



If the setup did not complete successfully, follow the steps below:

1. Return to the dialog box shown above.

2. Click Select PPD. The PPD selection dialog box will be displayed.

3. Select AL-C4100 PS3 or AL-C9000 PS3 depending on the model of your printer, and then click Select.

   If you need to cancel the installation of the PPD you selected, click Cancel. To try to setup the printer again, repeat step 5 above.

Note:
If QuickDrawGX is installed, you must turn it off in the Extensions Manager before you can use the Adobe PostScript printer driver.

Changing the Printer Setup Settings

You can easily change or update the printer setup settings. They include the amount of installed memory and whether options such as the Duplex Unit (for AL-C9000 users only) and lower cassettes are installed on the printer or not.

Follow the steps below to change the settings:

1. Select the printer on the desktop.
2. Click the Printing menu, and then select Change Setup.
3. Change the settings using the pop-up menus.

Balloon Help Using the Printer Driver

Balloon Help is available to help you with the printer driver settings. Follow the steps below to use Balloon Help when the Print or Page Setup dialog box is displayed:

1. Click the Help menu, and then select Show Balloons.
2. Place your cursor over the item that you need help with. Information on that item is displayed inside a floating balloon.

To end Balloon Help, click the Help menu, and then select Hide Balloons.

Printer Driver Settings

The printer driver enables you to change the settings for your print job. The printer driver settings can be accessed through the Page Setup and Print dialog boxes of the application that you are printing from. The various settings are grouped under the Page Setup and Print dialog boxes in the following manner:

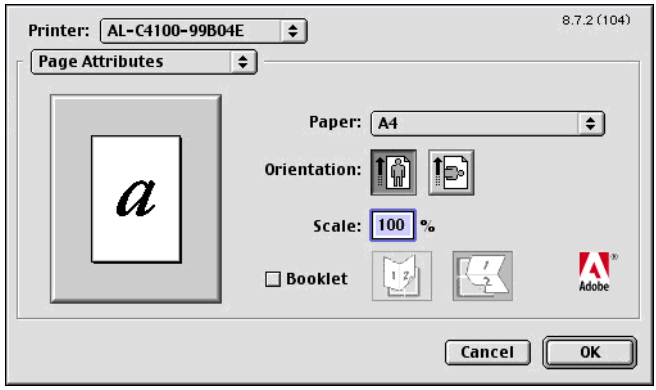
- ❏ Page Setup dialog box: Settings that affect the attributes of the page to be printed, such as the paper size, orientation, and margins are available here.

- ❏ Print dialog box: All other print settings, such as the paper source, resolution, and other PostScript settings are available here.

The actual settings that are available might vary, depending on your application.

Page Setup dialog box

When you select Page Setup in the File menu of your application, the dialog box shown below appears. The dialog box you see might be slightly different, depending on your application. There are four setup option pages in this dialog box: Page Attributes, Watermark, PostScript Options, and Custom Page Default.



The settings and the buttons that appear in the Page Setup dialog box are explained below.

Cancel

Click this button to exit the dialog box without saving any changes you made.

Page Attributes

Paper

Select the desired paper size from the Paper pop-up menu. This setting must match the size of the paper loaded in the printer. The paper sizes that are available will differ according to the printer. The default setting is either A4 or Letter, depending on your country of purchase.

Orientation

Specify whether the page is to be printed in the portrait (vertical) or landscape (horizontal) orientation.

Scale

This setting enables you to shrink or enlarge the image to print. You can enter any percentage from 25% to 400%. The default is 100%. To shrink the image, specify a percentage that is lower than 100%. To enlarge the image, specify a percentage that is higher than 100%. However, if you can shrink or enlarge the image to print in the application that you are printing from, do so in the application and not through the printer driver.

Booklet

Select this check box to print out two document pages on a single sheet of paper. When the sheet is folded in half, it will form a booklet. You can set the page orientation for either left-right or top-bottom folds.

Watermark

None

This radio button is selected by default, and indicates that your print job will be printed without any watermark.

First

Select this radio button if you want the selected watermark to be printed only on the first page of your document.

All

Select this radio button if you want the selected watermark to be printed on all the pages of your document.

PICT

Select this radio button to show all available watermarks in the PICT format under the Watermark pop-up menu.

EPS

Select this radio button to show all available watermarks in the EPS format under the Watermark pop-up menu.

TEXT

Select this radio button to show all available watermarks in the TEXT format under the Watermark pop-up menu.

Foreground

Select this check box if you want the selected watermark to be printed in the foreground, i.e., over the document's text and/or graphics.

Save With Document

Select this check box if you want to save the watermark with the document for future printing.

Edit

Click this button to modify the contents of the selected watermark. Only watermarks in the TEXT format can be modified. This button is available only when the TEXT radio button is selected.

PostScript Options

Visual Effects

Flip Horizontal
Select this check box to flip the printed image horizontally on the page.

Flip Vertical
Select this check box to flip the printed image vertically on the page.

Invert Image
Select this check box to invert the image or text on the page so that black areas of the page become white and white areas become black.

Image and Text

Substitute Fonts
Select this check box to allow the printer to use substitute fonts during printing.

Smooth Text
Select this check box to improve the appearance of bitmap fonts.

Smooth Graphics
Select this check box to improve the appearance of printed graphics by smoothing jagged edges.

Precision Bitmap Alignment
Select this check box to reduce the printed document to correct for distortions that sometimes occur in printed bitmap graphics.

Unlimited Downloadable Fonts
Select this check box when using a large number of downloadable fonts in a document. This setting may slow down printing.

Custom Page Default

Units

Select the desired unit that you want to work in when customizing the page. The options are cm, inches, and pts.

Paper size pop-up menu

This pop-up menu automatically shows the paper size that is selected on the Page Attributes setup page. You can change the paper size by clicking on the menu and selecting the desired paper size to customize.

Paper Size

Enter the desired Width, Height, and Offset values for the custom page.

PPD Limits

Click the pop-up menu and select the various attributes to view the minimum and maximum values permitted by the selected PPD (PostScript Printer Description) file.

Margins

Specify the desired Top, Bottom, Left, and Right margin values.

Custom Page Name

Enter a name for the custom page that you are creating.

Remove

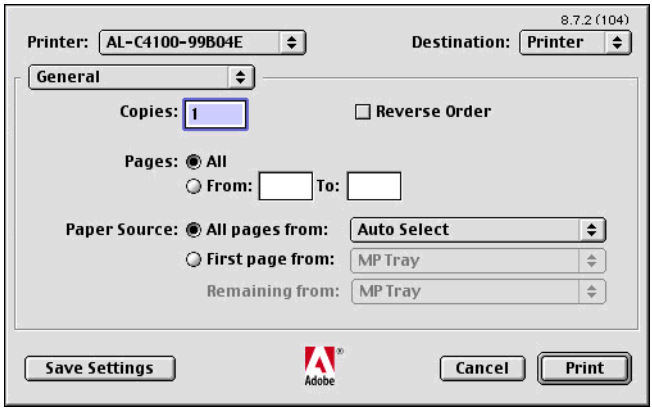
Click to delete the custom page selected in the paper size pop-up menu. This button is grayed out when a non-custom paper size is selected.

Add

Click to add the custom page that you are creating onto the list of selectable paper sizes. This button is grayed out if nothing is entered into the Custom Page Name text box.

Print dialog box

When you select Print in the File menu of your application, the dialog box shown below appears. The dialog box you see might be slightly different, depending on your application. There are several setup option pages in this dialog box, such as General, Background Printing, Cover Page, Color Matching, Layout, Error Handling, PostScript Settings, Color Setting, and Printer Setting.



The settings and the buttons that appear in the Print dialog box are explained below.

Cancel

Click this button to exit the dialog box without saving any changes you made.

Save Settings

Click this button to save changes to the settings. Until you make additional changes and click this button again, the changes saved will be used as the default settings for this printer.

Copies

Specify how many copies of the document to print. Enter any number from 1 (default) to 32,000.
Select the Collate option when printing multiple copies of a multi-page document, so that each document copy will be printed out with the page in order.
Select the Reverse Order option to print the document with the pages in reverse order (i.e., starting with the last page).

Reverse Order

Select this check box to reverse the print order.

Pages

All
Select this radio button to print out all the pages of the document.

From, To
Specify the range of pages to print. The available numbers are 1 to 32,000.

Paper Source

All pages from
Select the paper source for your print job. The options are Auto Tray Select, MP Tray, Cassette 1, Cassette 2, Cassette 3, Manual Feed 1st Page, and Manual Feed EachPage. However, the actual paper sources that are available will differ according to the printer and the options installed.

First page from
Select the paper source for printing the first page of the document.

Remaining from
Select the paper source for printing the rest of the document after the first page.

Note:

- ❏ Cassette 2 *and* Cassette 3 *can be selected only if the corresponding optional cassette unit is installed on your printer.*

- ❏ *If you are printing on a custom paper size created under the* Custom Page Default *setup option page on the Page Setup dialog box, the paper must be fed from the* MP Tray. *Only the* Auto Tray Select *and the* MP Tray *options can be selected.*

Background Printing

Print in

Foreground (no spool file)
Select this radio button to print the document in the foreground. When this is selected, you cannot use your computer for other operations while printing.

Background
Select this radio button to print the document in the background. When this radio button is selected, you can use your computer for other operations while printing.

Print Time

Urgent
Select this radio button to give the document first priority among the print jobs in the print queue.

Normal
Select this radio button to place the document in the print queue in the order received.

Print at
Select this radio button to specify a date and time to print the document.

Put Document on Hold
Select this radio button to keep the document in the print queue without printing it.

Cover Page

Print Cover Page

None
Select this radio button if you do not want to print a cover page.

Before Document
Select this radio button to print the cover page as the first page of the document.

After Document
Select this radio button to print the cover page as the last page of the document.

Cover Page Paper Source

Select the paper source for the printing of the cover page. The options are Same as document, MP Tray, Cassette 1, Cassette 2, Cassette 3, Manual Feed 1st Page, and Manual Feed EachPage. However, the actual paper sources that are available will differ according to the printer and the options installed.

Note:
Cassette 2 and Cassette 3 can be selected only if the corresponding optional cassette unit is installed on your printer.

Color Matching

Print Color

Specify whether the document is to be printed in color or grayscale. The options are: Black and White, Color/Grayscale, ColorSync Color Matching, or PostScript Color Matching. When Black and White is selected, printing is compatible with the Apple LaserWriter 7.x.

Printer Profile

Set the document to print using the color characteristics of one of the printers available on the list. This setting is available only when either ColorSync Color Matching or PostScript Color Matching is selected under the Print Color pop-up menu.

Layout

Pages per sheet

Specify how many pages of your document to print on one sheet of paper.

Layout direction

Specify whether the document should be laid out from left to right or right to left.

Border

Specify whether the document prints with a border around the edges of the page. The options are none, Single hairline, Single thin line, Double hairline, and Double thin line.

Print on Both Sides

Select this check box to print on both sides of the paper.

Note:
You can select this check box only when necessary setting is made for the Duplex Unit. See "Changing the Printer Setup Settings" on page 77 for information.

Binding

Allows you to select which edge of the document will be bound.

Note:
This setting is available only when the Print on Both Sides *option is checked.*

Transverse

Allows you to specify rotation for custom paper.

Note:
This setting is available only when the custom paper is selected.

Error Handling

If there is a PostScript error:

No special reporting
When this radio button is selected, PostScript errors will not be reported.

Summarize on screen
When this radio button is selected, a summary of the PostScript errors will be displayed on the screen.

Print detailed report
When this radio button is selected, a detailed report of the PostScript errors will be printed.

PostScript Settings

Format

Select the file format that you want the new file to have. The options are PostScript Job, EPS Mac Standard Preview, EPS Mac Enhanced Preview, and EPS No Preview.

PostScript Level

Select the PostScript compatibility level for the PostScript file that contains a description of your document. The options are Level 1, 2 and 3 Compatible, Level 2 Only, and Level 3 Only.

Data Format

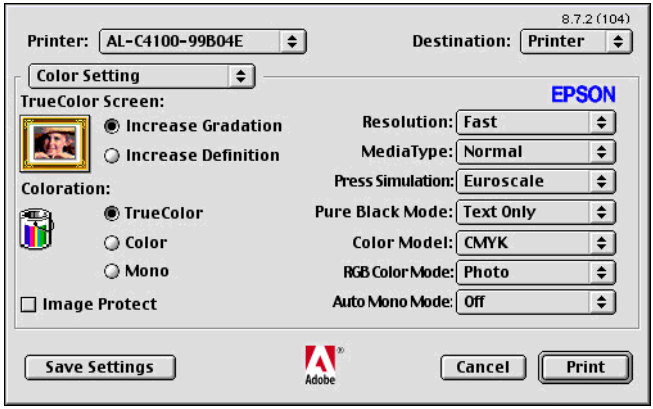
ASCII
Select this radio button if you plan to later edit the document. The file will be saved as an ASCII or text file.

Binary
Select this radio button to save the file as a binary file. Binary files are typically smaller in size than ASCII files.

Font inclusion

Specify the type of fonts to include in the file. The options are None, All, All But Standard 13, and All But Fonts in PPD file.

Color Setting



True Color Screen

Select 8 bits/pixel color printing screen. This selection is effective when Coloration is set to True Color. Select from Increase Gradation or Increase Definition.

Coloration

Specify a color printing method. Select from Color (1 bit/pixel color printing), Mono (monochrome printing), or True Color (8 bits/pixel color printing).

Image Protect

Select this check box to give priority to the quality of the printed image. When this is selected, lossy compression is not used even when memory runs low during printing. If this check box is left unselected, lossy compression is used when memory resources are too low.

Resolution

Select the resolution that you want to print in. The options are Fast and Quality. The Quality setting prints at a higher resolution, but the printing time will be longer.

MediaType

Select the desired paper type to print on. The options are Normal, Thick, Thick N (AL-C9000 only), Extra Thick (AL-C4100 only), Transparency, and Coated. Make sure to select the correct paper type to avoid smearing or wasting ink.

Press Simulation

Select Press Simulation. Select from None, DIC, Euroscale or SWOP. The Press Simulation function is useful when you print CMYK color data. You can easily make colors match CMYK color with the standard 3 offset colors.

Note:

- *This setting is effective only when CMYK is specified for Color Model setting.*
- *When using* Press Simulation*, set* Color Screen *to* Increased Gradation.

Pure Black Mode

If this mode is set to Text Only*, Image Only or All, black toner will be used for the specified area. If set to Off, all toners (cyan, magenta, yellow and black) will be used in the black areas.

* For line art, set to Text Only.

Color Model

Select the color model to be used for internal processing from the CMYK, and RGB. The Color Model is effective only when TrueColor is selected for Coloration.

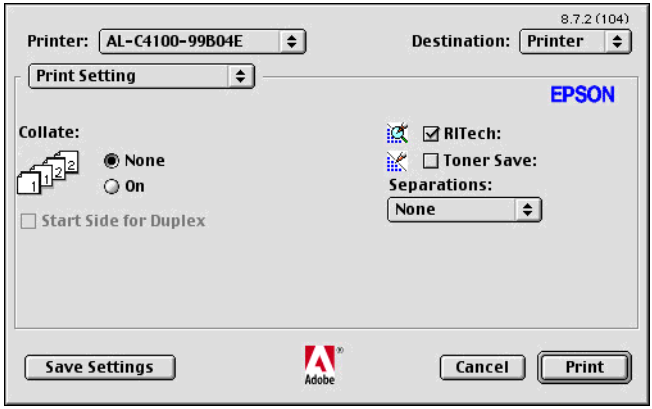
RGB Color Mode

Sets the RGB color mode. Set to Photo for natural coloring, to Vivid for brighter, enhanced colors. Effective when RGB is selected for ColorModel.

Auto Mono Mode

Specify whether or not to use the Auto Monochrome detection function.

Print Setting



Collate

Select the On radio button to print multiple copies of the document in page order. If None is selected, each page is printed out the specified number of times before the following page is printed.

Note:
If you enable the Collate *option here (*On *is selected), do not set the* Collate *option in the application itself.*

Start Side for Duplex

Select this check box to start printing from the second (back) page, leaving the first page blank. This setting is enabled only when the Print on Both Sides check box on the Layout setup option page is selected.

RITech

Select this check box to use RITech when printing. RITech improves the appearance of printed lines, text, and graphics.

Toner Save

Select this check box to use the Toner Save feature when printing. When the Toner Save feature is turned on, the printer uses about 50% less toner than normal.

Separations

This setting enables you to select the color for separation printing. The options are None, Cyan, Magenta, Yellow, and Black.

Mac OS X Users

Your Macintosh must be running Mac OS X ver. 10.2.4 or later to use the PostScript 3 Kit.

Installing the Printer Driver

The PS Installer program that is included in the PostScript 3 Utility CD-ROM installs the PostScript 3 printer driver.
Make sure that no applications are running on your Macintosh before installing the printer driver. If applications such as Print Center is running, the printer driver cannot be installed properly.

Follow these steps to install the printer driver:

1. Turn on your Macintosh if it is not already on.

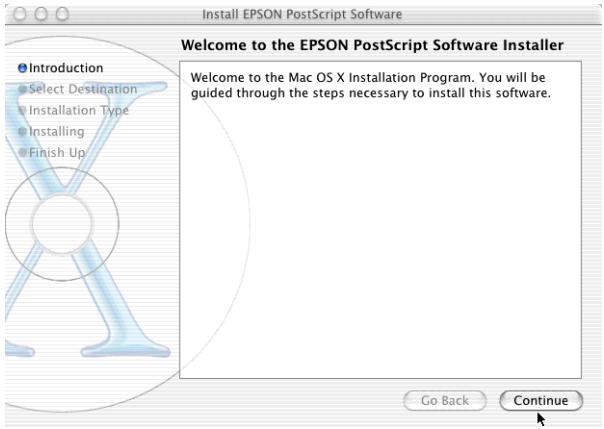
2. Insert the PostScript 3 Utility CD-ROM into your CD-ROM drive.

3. Double-click the CD-ROM icon, and then double-click Mac OS X.

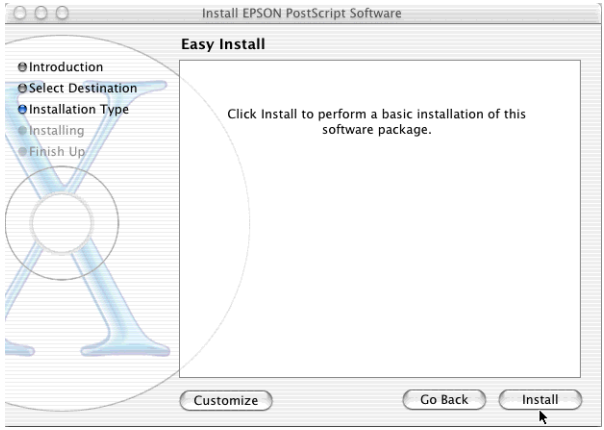
4. Double-click PS Installer. The Authenticate window appears. Make sure to enter the user name and password for an administrator.

   Note:
   You need to login to Mac OS X as an administrator in order to perform software installations.

5. In the welcome screen that appears, click Continue, and follow the on-screen instructions.



6. When the following screen appears, click Install.



7. When installation is done, click Close.

This completes the installation of the PostScript 3 printer driver. You now need to select the printer as described in the next section.

Selecting the Printer

The procedure for selecting the printer varies depending on the protocol or interface used to connect the printer to your computer.

Note:

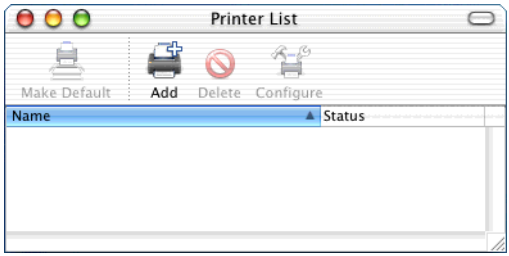
- ❏ *You cannot use FireWire for printer connection in the PostScript 3 mode. Although EPSON FireWire appears in the interface pop-up list, it cannot be used with the PostScript 3 printer driver.*

- ❏ *You need to make the settings for your installed options manually when the printer is connected using USB, IP printing, or Rendezvous. When the printer is connected using AppleTalk, the printer software automatically makes the settings.*

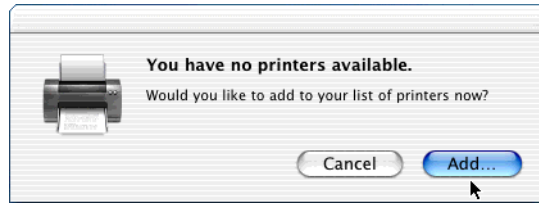
AppleTalk

Follow these steps to select the printer when it is connected using AppleTalk:

1. Go to the Utilities folder located inside the Applications folder, and then double-click Print Center.
   The Printer List window appears.



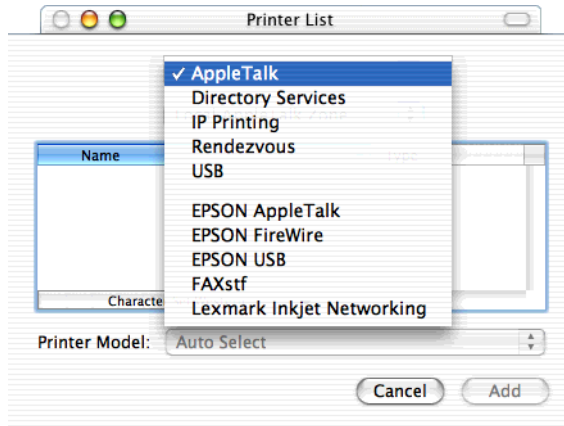
Note:
If you are launching Print Center for the first time or there is no printer added to the Print Center yet, the following screen appears:



Click Add, and proceed to step 3.

2. Click Add in the Printer List window. Alternatively, you can select Add Printer from the Printers menu.

3. In the window that appears, choose AppleTalk from the pop-up list.



Note:
Make sure to choose AppleTalk. Do not choose EPSON AppleTalk, because it cannot be used with the PostScript 3 printer driver.

4. Select your printer name from the Name list, and then select Auto Select in the Printer Model pop-up list.

   Note:
   By default, the six-digit MAC address is displayed after the printer name.

5. Click Add. The installation program starts communicating with the printer.
   When communication is established and configuration is completed, your printer is automatically added to the Printer List.

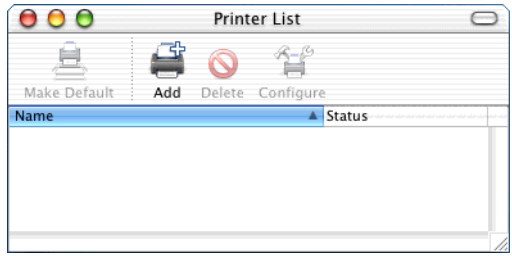
6. Quit Print Center.

IP Printing

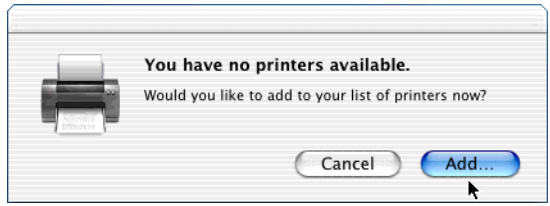
Follow these steps to select the printer when it is connected using IP Printing:

Note:
Make sure to specify ASCII as the data format. Binary data cannot be printed properly when using IP Printing.

1. Go to the Utilities folder located inside the Applications folder, and then double-click Print Center.
   The Printer List window appears.



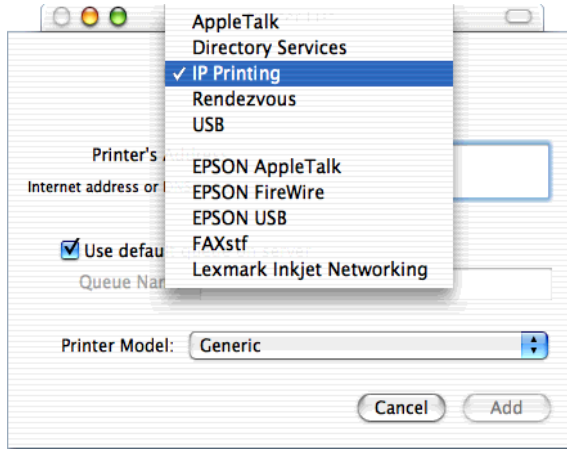
Note:
If you are launching Print Center for the first time or there is no printer added to the Print Center yet, the following screen appears:



Click Add, and proceed to step 3.

2. Click Add in the Printer List window. Alternatively, you can select Add Printer from the Printers menu.

3. In the window that appears, choose IP Printing from the pop-up list.



Note:
Make sure to choose IP Printing. Do not choose EPSON TCP/IP, because it cannot be used with the PostScript 3 printer driver.

4. Enter the IP address for the printer.

Note:
See the Network Guide or consult your network administrator for information about the IP address for the printer.

5. Make sure that the Use default queue on server check box is selected.

6. Select Epson from the Printer Model pop-up list. The Model Name list box is displayed.

7. Depending on your printer model, select AL-C4100 PS3 or AL-C9000 PS3 from the Model Name list.

8. Click Add. Your printer's IP address is automatically added as a printer name to the Printer List.

9. Select your printer's IP address from the list, and then select Show Info from the Printers menu. The Printer Info dialog box appears.

10. Select Installable Options from the pop-up list, and make the necessary settings.

11. Click Apply Changes, and then close the Printer Info dialog box.

12. Quit Print Center.

USB

Follow these steps to select the printer when it is connected using the USB interface:

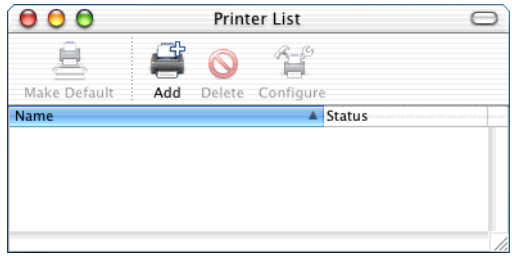
Note:

❏ *Make sure to specify PS3 as the printer mode on the printer's control panel for proper printing results.*

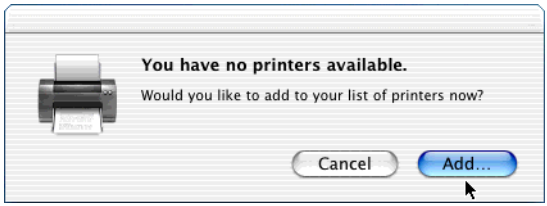
❏ *Make sure to select the printer by using the procedure described below. The Plug and Play function automatically selects the printer when the printer is connected via USB interface. However, this automated selection may not work properly.*

1. Make sure that the printer is properly connected to your computer with an USB cable, and that the printer is turned on.

2. Go to the Utilities folder located inside the Applications folder, and then double-click Print Center.
The Printer List window appears.



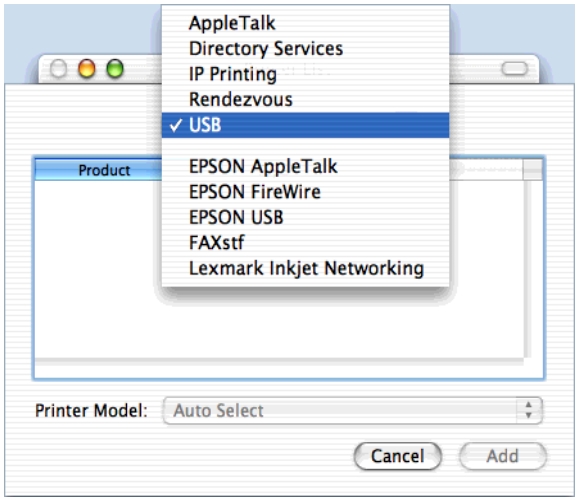
Note:
If you are launching Print Center for the first time or there is no printer added to the Print Center yet, the following screen appears:



Click Add, and proceed to step 3.

3. Click Add in the Printer List window. Alternatively, you can select Add Printer from the Printers menu.

4. In the window that appears, choose USB from the pop-up list. Your printer name automatically appears in the Name list.



Note:
Make sure to choose USB. Do not choose EPSON USB, because it cannot be used with the PostScript 3 printer driver.

5. Make sure that AL-C4100 PS3 or AL-C9000 PS3 is selected depending on your printer model in the Printer Model list.

Note:
If AL-C4100 PS3 or AL-C9000 PS3 is not automatically selected in the Printer Model list, you need to reinstall the PostScript printer driver. See *"Installing the Printer Driver" on page 94* for instructions.

6. Click Add. Your printer is automatically added to the Printer List.

7. Click on your printer name on the list, and then select Show Info from the Printers menu. The Printer Info dialog box appears.

8. Select Installable Options from the pop-up list, and make the necessary settings.

9. Click Apply Changes, and then close the Printer Info dialog box.

10. Quit Print Center.

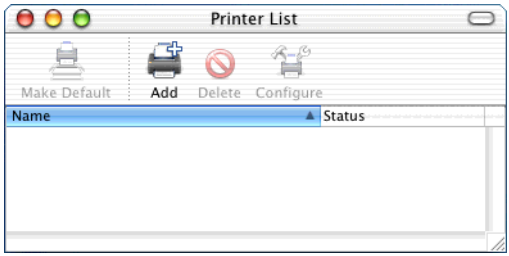
Rendezvous

There are two ways to select the printer when it is connected using Rendezvous.

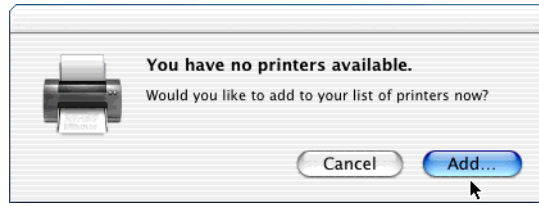
Note:
Make sure to specify ASCII as the data format. Binary data cannot be printed properly when using a Rendevous connection.

Selecting in the Print Center

1. Go to the Utilities folder located inside the Applications folder, and then double-click Print Center.
The Printer List window appears.



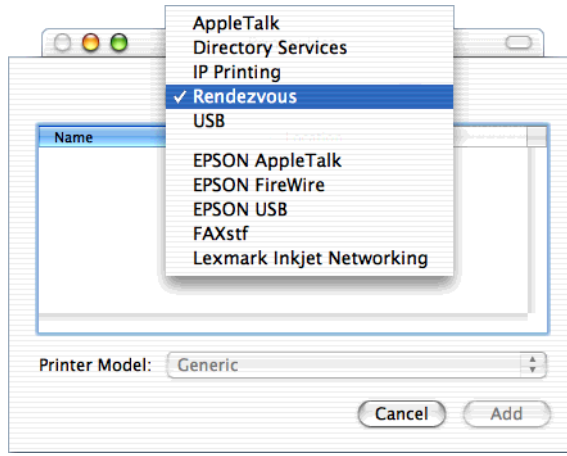
Note:
If you are launching Print Center for the first time or there is no printer added to the Print Center yet, the following screen appears:



Click Add, and proceed to step 3.

2. Click Add in the Printer List window. Alternatively, you can select Add Printer from the Printers menu.

3. In the window that appears, select Rendezvous from the pop-up list.



4. Select your printer name with (PostScript) attached at the end from the Name list.

5. Make sure that AL-C4100 PS3 or AL-C9000 PS3 is selected depending on your printer model in the Printer Model list.

   Note:
   If AL-C4100 PS3 or AL-C9000 PS3 is not automatically selected in the Printer Model list, you need to reinstall the PostScript printer driver. See *"Installing the Printer Driver" on page 94* for instructions.

6. Click Add. Your printer is automatically added to the Printer List.

7. Click on your printer name on the list, and then select Show Info from the Printers menu. The Printer Info dialog box appears.

8. Select Installable Options from the pop-up list, and make the necessary settings.

9. Click Apply Changes, and then close the Printer Info dialog box.

10. Quit Print Center.

Selecting from an application

1. Start an application, and then select Print from the File menu.

2. In the window that appears, select Rendevous Printer from the Printer pop-up list.

3. From the list of printers that appears, select AL-C4100 or AL-C9000, depending on your printer model.

Changing the Printer Setup Settings

You can easily change or update the printer setup settings. They include the amount of installed memory and whether options such as the Duplex Unit (for AL-C9000 users only) and lower cassette units are installed on the printer or not.

Follow these steps to change the settings:

1. Go to the Utilities folder located inside the Applications folder, and then double-click Print Center.
   The Printer List window appears.

2. Select the printer from the list.

3. Select Show Info from the Printers menu. The Printer Info dialog box appears.

4. Make necessary changes to the settings, and then close the dialog box.

5. Quit Print Center.

Printer Driver Settings

The printer driver enables you to change the settings for your print job. The printer driver settings can be accessed through the Page Setup and Print dialog boxes of the application that you are printing from. The various settings are grouped under the Page Setup and Print dialog boxes in the following manner:

- ❏ Page Setup dialog box: Settings that affect the attributes of the page to be printed, such as the paper size, orientation, and margins are available here.

❏ Print dialog box: All other print settings, such as the paper source, resolution, and other PostScript settings are available here.

The actual settings that are available might vary, depending on your application.

Note:
When printing under Mac OS X, text or images in black may be printed by mixing four toner colors (Cyan, Magenta, Yellow, and Black), instead of using only black toner even if you turn on the Pure Black mode, depending on the application used.
Similarly, depending on the application, you may not be able to use the Press Simulation function.

Page Setup dialog box

When you select Page Setup in the File menu of your application, the Page Setup dialog box appears. There are three setup option pages in this dialog box: Page Attributes, Custom Page Default, and Summary.

The settings and the buttons that appear in the Page Setup dialog box are explained below.

Cancel

Click this button to exit the dialog box without saving any changes you made.

Page Attributes

Paper

Select the desired paper size from the Paper pop-up menu. This setting must match the size of the paper loaded in the printer. The paper sizes that are available will differ according to the printer. The default setting is either A4 or Letter, depending on your country of purchase.

Orientation

Specify whether the page is to be printed in the portrait (vertical) or landscape (horizontal) orientation.

Scale

This setting enables you to shrink or enlarge the image to print. You can enter any percentage from 25% to 400%. The default is 100%. To shrink the image, specify a percentage that is lower than 100%. To enlarge the image, specify a percentage that is higher than 100%. However, if you can shrink or enlarge the image to print in the application that you are printing from, do so in the application and not through the printer driver.

Custom Page Default

Paper Size

Enter the desired Width and Height values for the custom page.

Note:

- ❏ *When you use custom paper size, make sure Width and Height that you specify do not exceed the custom paper size supported by your printer.*
- ❏ *Image data may not be printed properly when you use custom paper size.*

Margins

Specify the desired Top, Bottom, Left, and Right margin values.

Custom Page Name

Enter a name for the custom page that you are creating.

Summary

Displays all setting values in the Page Setup dialog box.

Print dialog box

When you select Print in the File menu of your application, the Print dialog box appears. The dialog box you see might be slightly different, depending on your application. There are several setup option pages in this dialog box, such as Copies & Pages, Layout, Duplex, Output Options, Error Handling, Paper Feed, Printer Features, and Summary.

The settings and the buttons that appear in the Print dialog box are explained below.

Cancel

Click this button to exit the dialog box without saving any changes you made.

Save Settings

Click this button to save changes to the settings. Until you make additional changes and click this button again, the changes saved will be used as the default settings for this printer.

Preview

Click this button to preview the printed image.

Save AS PDF...

Click this button to save the specified pages as a PDF file.

Copies & Pages

Copies

Specify how many copies of the document to print. Enter any number from 1 (default) to 32,000.
Select the Collate option when printing multiple copies of a multi-page document, so that each document copy will be printed out with the page in order.

Collated

Select this radio button to print multiple copies of the document in page order. If it is not selected, each page is printed out the specified number of times before the following page is printed.

Note:
If you enable the Collated *option here, do not set the* Collate *option in the application itself.*

Pages

All
Select this radio button to print out all the pages of the document.

From, To
Specify the range of pages to print.

Layout

Pages per sheet

Specify how many pages of your document to print on one sheet of paper.

Layout direction

Specify whether the document should be laid out from left to right or right to left.

Border

Specify whether the document prints with a border around the edges of the page. The options are none, Single hairline, Single thin line, Double hairline, and Double thin line.

Duplex

Print on Both Sides

Select this check box to print on both sides of the paper.

Note:
You can select this check box only when necessary setting is made for the Duplex Unit. See "Changing the Printer Setup Settings" on page 107 for information.

Binding

Allows you to select which edge of the document will be bound.

Note:
This setting is available only when the Print on Both Sides *option is checked.*

Output Options

Save as File

Select this check box to create a PDF or PostScript file.

Format

Select the format of the file that you are creating. Options are: PDF and PostScript.

Error Handling

PostScript Errors

No special reporting
When this radio button is selected, PostScript errors will not be reported.

Print detailed report
When this radio button is selected, a detailed report of the PostScript errors will be printed.

Paper Feed

All pages from
Select the paper source for your print job. The options are Auto Tray Select, MP Tray, Cassette 1, Cassette 2, Cassette 3, Manual Feed 1st Page, and Manual Feed EachPage. However, the actual paper sources that are available will differ according to the printer and the options installed.

First page from
Select the paper source for printing the first page of the document.

Remaining from
Select the paper source for printing the rest of the document after the first page.

Note:

- Cassette 2 *and* Cassette 3 *can be selected only if the corresponding optional cassette unit is installed on your printer.*

- *If you are printing on a custom paper size created under the* Custom Page Default *setup option page on the Page Setup dialog box, the paper must be fed from the* MP Tray. *Only the* Auto Tray Select *and the* MP Tray *options can be selected.*

Printer Features

Resolution

Select the resolution that you want to print in. The options are Fast and Quality. The Quality setting prints at a higher resolution, but the printing time will be longer.

Coloration

Specify a color printing method. Select from Color (1 bit/pixel color printing), Mono (monochrome printing), or True Color (8 bits/pixel color printing).

Color Model

Select the color model to be used for internal processing from the CMYK, and RGB. The Color Model is effective only when TrueColor is selected for Coloration.

RGB Color Mode

Sets the RGB color mode. Set to Photo for natural coloring, to Vivid for brighter, enhanced colors. Effective when RGB is selected for ColorModel.

True Color Screen

Select 8 bits/pixel color printing screen. This selection is effective when Coloration is set to True Color. Select from Increase Gradation or Increase Definition.

Press Simulation

Select Press Simulation. Select from None, DIC, Euroscale or SWOP. The Press Simulation function is useful when you print CMYK color data. You can easily make colors match CMYK color with the standard 3 offset colors.

Note:

- *This setting is effective only when CMYK is specified for Color Model setting.*
- *When using* Press Simulation, *set* Color Screen *to* Increased Gradation.

Pure Black Mode

If this mode is set to Text*, Image or All, black toner will be used for the specified area. If set to Off, all toners (cyan, magenta, yellow and black) will be used in the black areas.

* For line art, set to Text.

Auto Mono Mode

Specify whether or not to use the Auto Monochrome detection function.

RITech

Select this check box to use RITech when printing. RITech improves the appearance of printed lines, text, and graphics.

Toner Save

Select this check box to use the Toner Save feature when printing. When the Toner Save feature is turned on, the printer uses about 50% less toner than normal.

Image Protect

Select this check box to give priority to the quality of the printed image. When this is selected, lossy compression is not used even when memory runs low during printing. If this check box is left unselected, lossy compression is used when memory resources are too low.

Start Page

Select this check box to start printing from the second (back) page, leaving the first page blank. This setting is enabled only when the Print on Both Sides check box on the Layout setup option page is selected.

Separations

This setting enables you to select the color for separation printing. The options are None, Cyan, Magenta, Yellow, and Black.

MediaType

Select the desired paper type to print on. The options are Normal, Thick, Thick N (AL-C9000 only), Extra Thick (AL-C4100 only), Transparency, and Coated. Make sure to select the correct paper type to avoid smearing or wasting ink.

Summary

Displays all setting values in the Print dialog box.

Chapter 4

SelecType Settings

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Selecting the Adobe PostScript 3 Mode

If the printer does not print correctly in PostScript mode, you will have to manually change the printer's emulation mode. Normally, the printer is set to the Auto mode so that it can automatically determine the encoding used in the received print job data and select the appropriate emulation mode. However, there are situations where the printer cannot select the correct emulation mode. In this case, it must be set manually to PS3.

The emulation mode can be set individually for each interface which receives print job data. Set the emulation mode for the interface you are using to PS3.

The emulation mode is set through the SelecType Emulation menu on the printer. Refer to your printer manual for details.

How the Adobe PostScript 3 ROM Module Affects SelecType Settings

When the ROM module included in the Adobe PostScript 3 Kit is installed into the printer, the SelecType settings are slightly changed. Some settings are added to allow you to change settings available only when the Adobe PostScript 3 ROM module is installed. Other settings, which are available for the built-in emulation modes, might not be available for PostScript and are not selectable in the PostScript mode. Also, additional status and error messages may appear when you print in the PostScript mode.

Note:
Not all menu items listed in this chapter are available on all printers.

When the Adobe PostScript 3 ROM module is installed, the PS3 menu becomes available in SelecType and new items are added to the Information menu. In addition, the PS3 option can now be selected for all the interfaces available under the Emulation menu. All other menus and status and error messages remain the same. See your printer manual for more information.

Unavailable settings

Note:
The following SelecType menu settings are unavailable in the PS3 mode.

Printer	SelecType settings unavailable in PS3 mode
AL-C4100, AL-C9000	Wide A4, Skip Blank Page, Image Optimum, Page Protect, Top Offset, Left Offset, B T Offset, B L Offset

Emulation menu

When the Adobe PostScript 3 ROM module is installed, the PS3 option becomes available for all the installed interfaces.

Parallel	LJ4, ESCP2, FX, I239X, PS3, GL2, Auto
USB	LJ4, ESCP2, FX, I239X, PS3, GL2, Auto
Network	LJ4, ESCP2, FX, I239X, PS3, GL2, Auto
AUX*1	LJ4, ESCP2, FX, I239X, PS3, GL2, Auto

*1 Available only when an optional Type B board is installed.

PS3 menu

The PS3 menu contains the following items that allow you to change PostScript parameters.

Error Sheet	**On, Off (default)**

Specifies whether the printer prints a PostScript Error Sheet when an error occurs. If set to Off, the error sheet is not printed. If set to On, an error sheet is printed when an error occurs. This feature can be convenient for programmers using a non-bidirectional parallel interface.

Coloration	**Color (default), Mono, TrueCol.**

Specifies a color printing method.
TrueCol: 1 bit/pixel color printing
Mono: monochrome printing
True Color: 8 bits/pixel color printing

Image Protect	**On, Off (default)**

Specifies whether or not to use lossy compression when memory runs low during printing.

On:	Lossy compression is not used.
Off:	Lossy compression may be used.

Support menu

If the optional Hard Disk Drive is installed in the printer, the Support menu is available and can be used to specify hard disk drive settings. If you need more information, see your printer manual.

Caution:
If you execute HDD Format, all data on your hard disk drive will be erased. If you execute PS3 HDD Init, all PostScript fonts downloaded to the hard disk drive will be deleted.

HDD Format

Formats the hard disk installed in the printer. Any data contained on the hard disk will be lost.

PS3 HDD Init

Initializes the PS area of the hard disk. Any PostScript data contained on the hard disk, including font data, will be deleted.

Information menu

The Information menu now contains 2 new items that allow you to print a PS3 Status Sheet and a PS3 Font List. To print, select the desired item in the Information menu, and then press the Enter button. If you need more information, see your printer manual.

PS3 Status Sheet

Prints a status sheet describing the current PostScript settings.

The items "RAM," "ROM" and "Disk0" printed on the status sheet contain the following information:

RAM: The amount of memory available for use in the PostScript 3 mode. The memory capacity displayed is not the same as the total memory installed in the printer.

ROM: ROM capacity used for PostScript font storage.

Disk0: Hard disk drive capacity available for PostScript font installation (maximum of 1Gbyte). This item is displayed if the optional hard disk drive has been installed on your printer.

PS3 Font List

Prints a list of the fonts available in the PostScript 3 mode.

Chapter 5

Troubleshooting

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Windows Users

See the appropriate sections below for resolutions to the various problems that you may experience when printing in the PostScript mode from a computer running one of the supported Windows operating systems.

Problems printing PostScript documents

The printer does not print correctly in the PostScript mode.

Cause	What to do
The printer's emulation mode setting is incorrect.	The printer is set to the Auto mode by default, so that it can automatically determine the encoding used in the received print job data and select the appropriate emulation mode. However, there are situations where the printer cannot select the correct emulation mode. In this case, it must be set manually to PS3. Set the emulation mode through the SelecType Emulation menu on the printer. Refer to your printer manual for details.
The printer's emulation mode setting for the interface that you are using is incorrect.	The emulation mode can be set individually for each interface which receives print job data. Set the emulation mode for the interface you are using to PS3. Set the emulation mode through the SelecType Emulation menu on the printer. Refer to your printer manual for details.

General printing problems

The printer does not print.	
Cause	**What to do**
The Print to file check box is selected in the Print dialog box.	Clear the Print to file check box in the Print dialog box.
An incorrect printer driver is selected.	Make sure that the PostScript printer driver that you are using to print is set as the default printer. Follow the steps below: (1) Click Start, select Settings, then click Printers. If your computer is running Windows XP, click Start, then click Control Panel. In the window that appears, click Printers and Other Hardware, then click View installed printers or fax printers. If Printers and Faxes is displayed at the bottom of the window, click on it instead. (2) Right-click the icon of the PostScript printer driver that you are using to print. (3) Make sure that there is a check mark next to Set as Default Printer. If not, click on Set as Default Printer to select it.
The Emulation menu in the printer's Control Panel is set to a mode other than Auto or PS3 for the interface that you are using.	Change the mode setting to either Auto or PS3.

The printer does not print normally. (Windows 98/95 only)

Cause	What to do
The computer is connected to the printer via the parallel interface and the parallel port setting is set to the ECP mode.	The printer may not print normally if the computer is connected to the printer via the parallel interface and the ECP mode is set. When this is the case, follow the steps below to make sure that the mode setting is correct: (1) Click Start, select Settings, then click Printers. (2) Right-click the icon for the printer, then click Properties. (3) Click the Details tab, then click the Spool Settings button. (4) Select Disable bi-directional support for this printer, then click the OK button.

Font and image problems

The font on the printout is different from that on the screen.

Cause	What to do
The PostScript screen fonts are not installed.	The PostScript screen fonts must be installed on the computer that you are using. Otherwise, the font that you select is substituted by some other font for display on the screen.
The Send TrueType fonts to printer according to the Font Substitution Table setting on the Fonts sheet of the printer's Properties dialog box is turned on, but the TrueType fonts are not replaced by the printer fonts.	If the Send TrueType fonts to printer according to the Font Substitution Table setting on the Fonts sheet of the printer's Properties dialog box is turned on, TrueType fonts are replaced by the printer fonts before they are printed. Specify the appropriate substitution fonts using the Font Substitution Table.

The printer fonts cannot be installed.

Cause	What to do
The Emulation menu in the printer's Control Panel is not set to PS3 for the interface that you are using.	Change the Emulation menu setting to PS3 for the interface that you are using, then try reinstalling the printer fonts again.

The edges of texts and/or images are not smooth.	
Cause	**What to do**
The resolution is set to 300 dpi.	Change the Resolution setting in the Graphics sheet to 600 dpi.
The printer does not have sufficient memory.	Increase the printer memory.

Problems printing via the parallel interface

The printer does not print normally via the parallel interface. (Windows 98/95 only)	
Cause	**What to do**
The computer is connected to the printer via the parallel interface and the parallel port setting is set to the ECP mode.	The printer may not print normally if the computer is connected to the printer via the parallel interface and the ECP mode is set. When this is the case, follow the steps below to make sure that the mode setting is correct: (1) Click Start, select Settings, then click Printers. (2) Right-click the icon for the printer, then click Properties. (3) Click the Details tab, then click the Spool Settings button. (4) Select Disable bi-directional support for this printer, then click the OK button.

Problems printing via the USB interface

The printer does not print normally via the USB interface.	
Cause	**What to do**
The Data Format setting in the printer's Properties dialog box is not set to ASCII data.	The printer cannot print binary data when it is connected to the computer via the USB interface. Make sure that the Data Format setting, which is accessed by clicking Advanced on the PostScript sheet of the printer's Properties dialog box, is set to ASCII data. If your computer is running Windows XP, click the Device Settings tab in the printer's Properties dialog box, then click the Output Protocol setting and select ASCII.

Problems printing via the network

The printer does not print normally via the network interface.	
Cause	**What to do**
The Data Format setting, which is accessed by clicking Advanced on the PostScript sheet of the printer's Properties dialog box, is different from the data format setting specified in the application.	If the file is created in an application that allows you to change the data format or encoding, such as Photoshop, make sure that the setting in the application matches that in the printer driver.

The computer is connected to the network using AppleTalk in a Windows NT 4.0/2000 environment, and the Send CTRL+D Before Each Job or Send CTRL+D After Each Job setting on the Device Settings sheet of the printer's Properties dialog box is set to Yes.	Make sure that both the Send CTRL+D Before Each Job and Send CTRL+D After Each Job settings are set to No.
The network connection is something other than AppleTalk, and the Data Format setting is not set to ASCII data.	If the network connection is something other than AppleTalk, make sure that the Data Format setting is set to ASCII data or Tagged binary communications protocol.
The print data is too large.	Click Advanced on the PostScript sheet of the printer's Properties dialog box, and then change the Data Format setting from ASCII data (default) to Tagged binary communications protocol.
Printing cannot be performed using the network interface.	Click Advanced on the PostScript sheet of the printer's Properties dialog box, and then change the Data Format setting from ASCII data (default) to Tagged binary communications protocol.

Macintosh Users

See the appropriate sections below for resolutions to the various problems that you may experience when printing in the PostScript mode from a computer running one of the supported Macintosh operating systems.

Problems printing PostScript documents

The printer does not print correctly in the PostScript mode.

Cause	What to do
The printer's emulation mode setting is incorrect.	The printer is set to the Auto mode by default, so that it can automatically determine the encoding used in the received print job data and select the appropriate emulation mode. However, there are situations where the printer cannot select the correct emulation mode. In this case, it must be set manually to PS3. Set the emulation mode through the SelecType Emulation menu on the printer. Refer to your printer manual for details.
The printer's emulation mode setting for the interface that you are using is incorrect.	The emulation mode can be set individually for each interface which receives print job data. Set the emulation mode for the interface you are using to PS3. Set the emulation mode through the SelecType Emulation menu on the printer. Refer to your printer manual for details.

Problems with the printer driver

The printer driver or printer that you need to use does not appear in the Chooser.	
Cause	**What to do**
QuickDraw GX is in use.	This printer's driver does not support QuickDraw GX. Disable QuickDraw GX.
The printer name has been changed.	Ask the network administrator for details, and then select the appropriate printer name.
The AppleTalk zone setting is incorrect.	Open the Chooser, and then select the AppleTalk zone that the printer is connected to.

General printing problems

The printer does not print.	
Cause	**What to do**
The Print to file check box is selected in the Print dialog box.	Clear the Print to file check box in the Print dialog box.
An incorrect printer driver is selected.	Make sure that either AdobePS or the PostScript printer that you are using to print is selected in the Chooser.

The Unlimited Downloadable Fonts check box on the PostScript Options setup option page in the Page Setup dialog box is selected.	Follow the steps below to clear the Unlimited Downloadable Fonts check box: (1) Click the File menu of the application that you are using, then select Page Setup. (2) Clear the Unlimited Downloadable Fonts check box. If this check box is selected, you may not be able to print.
The Emulation menu in the printer's Control Panel is set to a mode other than Auto or PS3 for the interface that you are using.	Change the mode setting to either Auto or PS3.

Font and image problems

The font on the printout is different from that on the screen.

Cause	What to do
The PostScript screen fonts are not installed.	The PostScript screen fonts must be installed on the computer that you are using. Otherwise, the font that you select is substituted by some other font for display on the screen.

The printer fonts cannot be installed.

Cause	What to do
The Emulation menu in the printer's Control Panel is not set to PS3 for the interface that you are using.	Change the Emulation menu setting to PS3 for the interface that you are using, then try reinstalling the printer fonts again.

The edges of texts and/or images are not smooth.

Cause	What to do
The resolution is set to Fast.	Change the Resolution setting on the Print Setting setup option page in the Print dialog box to Quality.
The printer does not have sufficient memory.	Increase the printer memory.

Problems printing via the network

The printer does not print normally via the network interface.	
Cause	**What to do**
The Data Format setting on the PostScript Settings setup option page of the Print dialog box is different from the data format setting specified in the application.	If the file is created in an application that allows you to change the data format or encoding, such as Photoshop, make sure that the setting in the application matches that in the printer driver.
The network connection is something other than AppleTalk, and the Data Format setting is not set to ASCII.	If the network connection is something other than AppleTalk, make sure that the Data Format setting is set to ASCII.

Undefined errors

An undefined error occurs.	
Cause	**What to do**
The version of the Mac OS that you are using is unsupported.	This printer's driver can only be used on Macintosh computers running Mac OS 8.6, Mac OS 9.x, and Mac OS X.

There is insufficient memory for printing.	The Macintosh printer driver uses available memory in the system to process print data. Try one of the following to free up memory for printing: (1) Reduce the RAM cache setting in the Memory control panel. (2) Close applications that are not in use. (3) Increase the memory allocation for the application that you are printing from. (4) Turn off background printing.

Contacting Customer Support

If your EPSON product is not operating properly and you cannot solve the problem using the troubleshooting information in your product documentation, contact customer support services for assistance. If customer support for your area is not listed below, contact the dealer where you purchased your product.

Customer support will be able to help you much more quickly if you give them the following information:

- ❏ Product serial number
  (The serial number label is usually on the back of the product.)
- ❏ Product model
- ❏ Product software version
  (Click About, Version Info, or similar button in the product software.)

- ❏ Brand and model of your computer
- ❏ Your computer operating system name and version
- ❏ Names and versions of the software applications you normally use with your product

For users in North America

If you purchased your product in the United States or Canada, EPSON provides technical assistance 24 hours a day through the electronic support services and automated telephone services listed in the following table:

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 product documentation, access troubleshooting information, and receive technical advice through e-mail.
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, dial: **(562) 276-1300** (U.S.), or **(905) 709-9475** (Canada), 6 AM to 8 PM, Pacific Time, Monday through Friday. Toll or long distance charges may apply.

Before you call, please have the following information ready:

- ❏ Product name
- ❏ Product serial number

- ❏ Proof of purchase (such as a store receipt) and date of purchase
- ❏ Computer configuration
- ❏ Description of the problem

Note:
For help using any other software on your system, see the documentation for that software for technical support information.

You can purchase ink cartridges, ribbon cartridges, paper, manuals, and accessories from the EPSON Store at **(800) 873-7766** or visit http://www.epsonstore.com (U.S. sales only). In Canada, please call **(800) 463-7766** for dealer referral.

For users in the United Kingdom and the Republic of Ireland

http://www.epson.co.uk

Visit our Internet home page for a full list of support and warranty services including:

- ❏ Register your product on-line
- ❏ Free access to the latest EPSON software drivers
- ❏ Easy access to frequently asked questions
- ❏ Interactive web based support tool to help you quickly resolve support issues
- ❏ Chat directly with a support technician on-line
- ❏ Email Technical Support

Support Via Telephone

UK	08701 637 766
The Republic of Ireland	01 679 9015

Pre-Sales Enquiries, Literature Requests and Nearest Dealer

Home Page:	http://www.epson.co.uk
Email:	info@epson.co.uk
Telephone:	UK 0800 220 546 The Republic of Ireland 1 800 409 132
Fax:	UK 01442 227271 The Republic of Ireland 00 44 1442 227 271

For users in the Middle East

Some of these services may be available in English only.

http://www.epson.com

Select your country from our Internet home page for a full list of support and warranty services including:

- ❏ Register your product on-line
- ❏ Free access to the latest EPSON software drivers
- ❏ Easy access to frequently asked questions
- ❏ Interactive web based support tool to help you quickly resolve support issues

- ❏ Chat directly with a support technician on-line
- ❏ Email Technical Support

Technical Support Via Email and Telephone

Email:	epson_support@compubase.co.ae
Telephone:	+971 4 351 7777
Fax:	+971 4 351 6617

Pre-Sales Enquiries, Literature Requests and Nearest Dealer

Select your country from our Internet home page at http://www.epson.com.

For users in Scandinavia

Some of these services may be available in English only.

http://www.epson.com

Select your country from our Internet home page for a full list of support and warranty services including:

- ❏ Register your product on-line
- ❏ Free access to the latest EPSON software drivers
- ❏ Easy access to frequently asked questions
- ❏ Interactive web based support tool to help you quickly resolve support issues
- ❏ Chat directly with a support technician on-line

❑ Email Technical Support

Support Via Telephone

Denmark	80 88 11 27
Finland	0800 523 010
Norway	800 11 828
Sweden	08 445 12 58

Pre-Sales Enquiries Literature Requests and Nearest Dealer

Denmark	Home Page:	http://www.epson.dk
	Telephone:	38 48 71 37
Finland	Home Page:	http://www.epson.fi
	Telephone:	0981 710 083
Norway	Home Page:	http://www.epson.no
	Telephone:	231 62 124
Sweden	Home Page:	http://www.epson.se
	Telephone:	08 519 92 082

For users in South Africa

Some of these services may be available in English only.

http://www.epson.co.za

Visit our Internet home page for a full list of support and warranty services including:

- ❏ Register your product on-line
- ❏ Free access to the latest EPSON software drivers
- ❏ Easy access to frequently asked questions
- ❏ Interactive web based support tool to help you quickly resolve support issues
- ❏ Chat directly with a support technician on-line
- ❏ Email Technical Support

Support Via Telephone

Telephone: (011) 444-5223 or 0800 600 578

Pre-Sales Enquiries Literature Requests and Nearest Dealer

Home Page: http://www.epson.co.za

Telephone: (011) 448-2736 or 0800 005 956

For users in Australia

EPSON Australia wishes to provide you with a high level of customer service. In addition to your product documentation, we provide the following sources for obtaining information:

Your Dealer

Don't forget that your dealer can often help identify and resolve problems. The dealer should always be the first call for advise on problems; they can often solve problems quickly and easily as well as give advise on the next step to take.

Internet URL http://www.epson.com.au

Access the EPSON Australia World Wide Web pages. Worth taking your modem here for the occasional surf! The site provides a download area for drivers, EPSON contact points, new product information and technical support (e-mail).

EPSON Faxback Service

EPSON Faxback service will fax you the latest specifications for most EPSON products offered in Australia. Phone (02) 9903 9075 and the system will guide you through a number of choices before faxing the information to your fax machine.

EPSON Helpdesk

EPSON Helpdesk is provided as a final backup to make sure our clients have access to advise. Operators on the Helpdesk can aid you in installing, configuring and operating your EPSON product. Our Pre-sales Helpdesk staff can provide literature on new EPSON products and advise where the nearest dealer or service agent is located. Many types of queries are answered here.

The Helpdesk numbers are:

Phone: 1300 361 054

Fax: (02) 9903 9189

We encourage you to have all the relevant information on hand when you ring. The more information you prepare, the faster we can help solve the problem. This information includes your EPSON product documentation, type of computer, operating system, application programs, and any information you feel is required.

For users in Singapore

Sources of information, support, and services available from Epson Singapore are:

World Wide Web (http://www.epson.com.sg)

Information on product specifications, drivers for download, Frequently Asked Questions (FAQ), Sales Enquiries, and Technical Support via e-mail are available.

Epson HelpDesk (Phone: (65) 6586 3111)

Our HelpDesk team can help you with the following over the phone:

- ❏ Sales enquiries and product information
- ❏ Product usage questions or problem
- ❏ Enquiries on repair service and warranty

For users in Thailand

Contact for information, support, and services are:

World Wide Web (http://www.epson.co.th)

Information on product specifications, drivers for download, Frequently Asked Questions (FAQ), and e-mail are available.

Epson Hotline (Phone: (66)2-670-0333)

Our Hotline team can help you with the following over the phone:

- ❏ Sales enquiries and product information
- ❏ Product usage questions or problem
- ❏ Enquiries on repair service and warranty

For users in Indonesia

Contacts for information, support, and services are:

World Wide Web (http://www.epson.co.id)

- ❏ Information on product specifications, drivers for download
- ❏ Frequently Asked Questions (FAQ), Sales Enquiries, questions through e-mail

Epson Hotline

- ❏ Sales enquiries and product information
- ❏ Technical support

  Phone (62) 21-572 4350

Fax (62) 21-572 4357

EPSON Support Center

Jakarta
Wisma Bisnis Indonesia 3rd floor
Jl. Letjen S.Parman Kav. 12,
Slipi-Jakarta
Phone/Fax: (62) 21-5357159

Bandung
Lippo Center 8th floor
Jl. Gatot Subroto No.2
Bandung
Phone/Fax: (62) 22-7303766

Surabaya
Gedung Koko Perdana 3rd floor
Jl. Jend. Basuki RakhmatNo. 105-107
Surabaya
Phone/Fax: (62) 31-5458562

Yogyakarta
Hotel Natour Garuda
Jl. Malioboro No. 60
Yogyakarta
Phone: (62) 274-566353/22-143

For users in Hong Kong

To obtain technical support as well as other after-sales services, users are welcome to contact EPSON Hong Kong Limited.

Internet Home Page

EPSON Hong Kong has established a local home page in both Chinese and English on the Internet to provide users with the following information:

- ❏ Product information
- ❏ Answers to Frequently Asked Questions (FAQs)
- ❏ Latest versions of EPSON product drivers

Users can access our World Wide Web home page at:

http://www.epson.com.hk

Electronic Bulletin Board System

An electronic bulletin board system (BBS) is also available to obtain product information and the latest versions of product drivers. You can log on to the following number for the BBS service:

BBS: (852) 2827-4244

Technical Support Hotline

You can also contact our technical staff at the following telephone and fax numbers:

Phone: (852) 2585-4399

Fax: (852) 2827-4383

For users in Malaysia

Contacts for information, support, and services are:

World Wide Web (http://www.epson.com.my)

- ❏ Information on product specifications, drivers for download
- ❏ Frequently Asked Questions (FAQ), Sales Enquiries, questions through e-mail

Epson Trading (M) SDN. BHD

Head Office.

Phone: 603-56288288

Fax: 603-56212088

Epson Helpdesk

- ❏ Sales enquiries and product information (Infoline)

  Phone: 603-56288222

- ❏ Enquiries on repair services & warranty, product usage and technical support (Techline)

  Phone: 603-56288333

For users in India

Contacts for information, support, and services are:

World Wide Web (http://www.epson.co.in)

Information on product specifications, drivers for download, Frequently Asked Questions (FAQ), Products Enquiry, and Technical Query are available.

Epson India Head Office - Bangalore:

Phone: 5321 266-70

Fax: 5581439/5321095

Epson India Regional Offices:

Mumbai	Phone: 8261516-17 Fax: 8257287
Delhi	Phone: 6447201-06 Fax: 6447205
Chennai	Phone: 8203940/41 Fax: 8272463
Kolkata	Phone: 2871355/56 Fax: 2871357
Hyderabad	Phone: 6329335/36
Cochin	Phone: 361638/362677 Fax: 352940
Pune	Phone: 4335460-ext 214 Fax: 4330881
Ahmedabad	Phone: 6407176/77

Toll Free Telephone Support

To learn more about Epson products or to avail service support, please call 1600 440011. This is a toll-free number and can be accessed (9 A.M to 9 P.M) anywhere in the country.

For users in the Philippines

To obtain technical support as well as other after sales services, users are welcome to contact the EPSON Philippines Corporation at the telephone and fax numbers and e-mail address below:

Phone: (63) 2-813-6567

Fax: (63) 2-813-6545

E-mail: customersupport@epc.epson.com.ph

World Wide Web (http://www.epson.com.ph)

Information on product specifications, drivers for download, Frequently Asked Questions (FAQ), and E-mail Enquiries are available.

Epson Helpdesk (Phone: (63) 2-813-6567)

Our Hotline team can help you with the following over the phone:

- ❏ Sales enquiries and product information
- ❏ Product usage questions or problems
- ❏ Enquiries on repair service and warranty

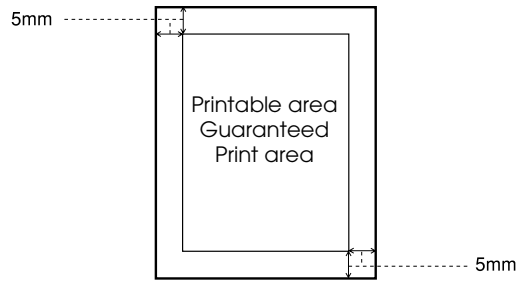
Appendix A

Printable Area

There are two types of defined printable areas for this device, as shown below:

- ❏ Guaranteed Print Area: Both the printing operation and the print quality (images, etc.) are guaranteed within this area.
- ❏ Printable Area: Only the printing operation is guaranteed within this area.

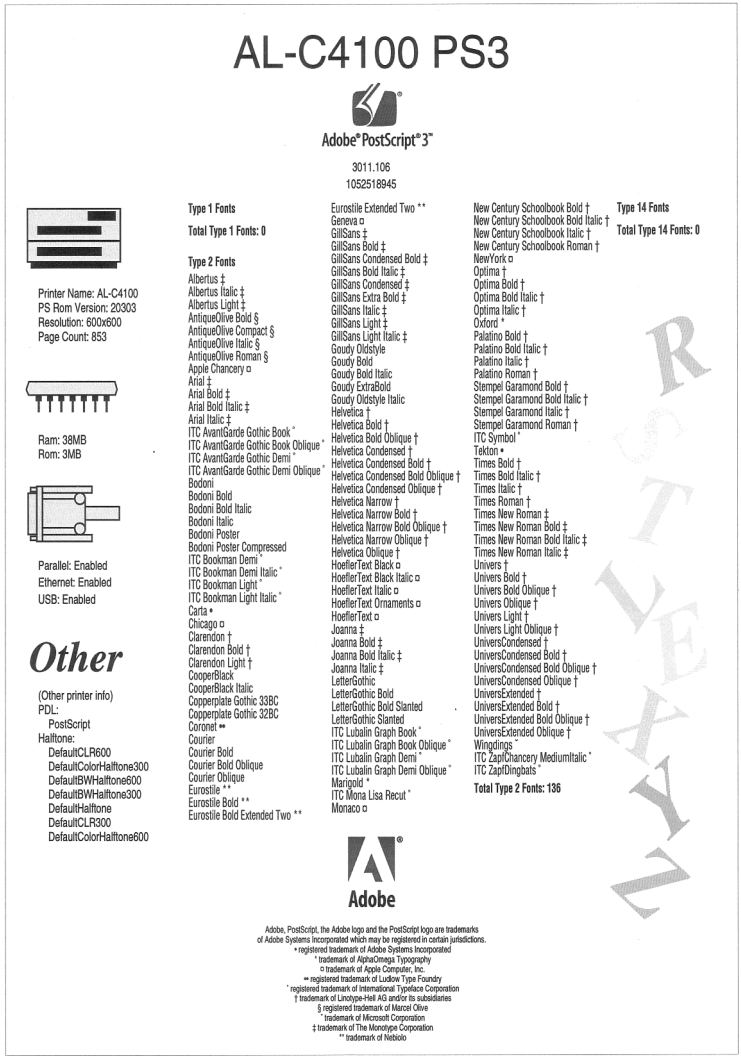
The Printable Area is equal to the Guaranteed Print Area for all paper sizes. The area is the whole surface of the paper, excluding a margin of 5 mm on all sides.



Note:
The Guaranteed Print Area could be smaller than the above-stated range, depending on the application.

PS3 Status Sheet Sample

AL-C4100



AL-C4100 PS3

Adobe® PostScript® 3™

3011.106

1052518945

Printer Name: AL-C4100
PS Rom Version: 20303
Resolution: 600x600
Page Count: 853

Ram: 38MB
Rom: 3MB

Parallel: Enabled
Ethernet: Enabled
USB: Enabled

Other

(Other printer info)
PDL:
PostScript
Halftone:
DefaultCLR600
DefaultColorHalftone300
DefaultBWHalftone600
DefaultBWHalftone300
DefaultHalftone
DefaultCLR300
DefaultColorHalftone600

Type 1 Fonts

Total Type 1 Fonts: 0

Type 2 Fonts

Albertus ‡
Albertus Italic ‡
Albertus Light ‡
AntiqueOlive Bold §
AntiqueOlive Compact §
AntiqueOlive Italic §
AntiqueOlive Roman §
Apple Chancery ¤
Arial ‡
Arial Bold ‡
Arial Bold Italic ‡
Arial Italic ‡
ITC AvantGarde Gothic Book ˚
ITC AvantGarde Gothic Book Oblique ˚
ITC AvantGarde Gothic Demi ˚
ITC AvantGarde Gothic Demi Oblique ˚
Bodoni
Bodoni Bold
Bodoni Bold Italic
Bodoni Italic
Bodoni Poster
Bodoni Poster Compressed
ITC Bookman Demi ˚
ITC Bookman Demi Italic ˚
ITC Bookman Light ˚
ITC Bookman Light Italic ˚
Carta •
Chicago ¤
Clarendon †
Clarendon Bold †
Clarendon Light †
CooperBlack
CooperBlack Italic
Copperplate Gothic 33BC
Copperplate Gothic 32BC
Coronet **
Courier
Courier Bold
Courier Bold Oblique
Courier Oblique
Eurostile **
Eurostile Bold **
Eurostile Bold Extended Two **
Eurostile Extended Two **
Geneva ¤
GillSans ‡
GillSans Bold ‡
GillSans Condensed Bold ‡
GillSans Bold Italic ‡
GillSans Condensed ‡
GillSans Extra Bold ‡
GillSans Italic ‡
GillSans Light ‡
GillSans Light Italic ‡
Goudy Oldstyle
Goudy Bold
Goudy Bold Italic
Goudy ExtraBold
Goudy Oldstyle Italic
Helvetica †
Helvetica Bold †
Helvetica Bold Oblique †
Helvetica Condensed †
Helvetica Condensed Bold †
Helvetica Condensed Bold Oblique †
Helvetica Condensed Oblique †
Helvetica Narrow †
Helvetica Narrow Bold †
Helvetica Narrow Bold Oblique †
Helvetica Narrow Oblique †
Helvetica Oblique †
HoeflerText Black ¤
HoeflerText Black Italic ¤
HoeflerText Italic ¤
HoeflerText Ornaments ¤
HoeflerText ¤
Joanna ‡
Joanna Bold ‡
Joanna Bold Italic ‡
Joanna Italic ‡
LetterGothic
LetterGothic Bold
LetterGothic Bold Slanted
LetterGothic Slanted
ITC Lubalin Graph Book ˚
ITC Lubalin Graph Book Oblique ˚
ITC Lubalin Graph Demi ˚
ITC Lubalin Graph Demi Oblique ˚
Marigold *
ITC Mona Lisa Recut ˚
Monaco ¤
New Century Schoolbook Bold †
New Century Schoolbook Bold Italic †
New Century Schoolbook Italic †
New Century Schoolbook Roman †
NewYork ¤
Optima †
Optima Bold †
Optima Bold Italic †
Optima Italic †
Oxford *
Palatino Bold †
Palatino Bold Italic †
Palatino Italic †
Palatino Roman †
Stempel Garamond Bold †
Stempel Garamond Bold Italic †
Stempel Garamond Italic †
Stempel Garamond Roman †
ITC Symbol ˚
Tekton •
Times Bold †
Times Bold Italic †
Times Italic †
Times Roman †
Times New Roman ‡
Times New Roman Bold ‡
Times New Roman Bold Italic ‡
Times New Roman Italic ‡
Univers †
Univers Bold †
Univers Bold Oblique †
Univers Oblique †
Univers Light †
Univers Light Oblique †
UniversCondensed †
UniversCondensed Bold †
UniversCondensed Bold Oblique †
UniversCondensed Oblique †
UniversExtended †
UniversExtended Bold †
UniversExtended Bold Oblique †
UniversExtended Oblique †
Wingdings ™
ITC ZapfChancery MediumItalic ˚
ITC ZapfDingbats ˚

Total Type 2 Fonts: 136

Type 14 Fonts

Total Type 14 Fonts: 0

Adobe

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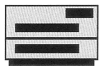
˚ trademark of AlphaOmega Typography
¤ trademark of Apple Computer, Inc.
** registered trademark of Ludlow Type Foundry
˚ registered trademark of International Typeface Corporation
† trademark of Linotype-Hell AG and/or its subsidiaries
§ registered trademark of Marcel Olive
* trademark of Microsoft Corporation
‡ trademark of The Monotype Corporation
™ trademark of Nebiolo

AL-C9000 PS3

Adobe® PostScript® 3™

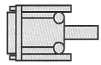
3011.106

1052518559



Printer Name: AL-C9000
PS Rom Version: 18352
Resolution: 600x600
Page Count: 486

Ram: 95MB
Rom: 3MB



Parallel: Enabled
Ethernet: Enabled
USB: Enabled

Other

(Other printer info)
PDL:
PostScript
Halftone:
DefaultCLR600
DefaultColorHalftone300
DefaultBWHalftone600
DefaultBWHalftone300
DefaultHalftone
DefaultCLR300
DefaultColorHalftone600

Type 1 Fonts

Total Type 1 Fonts: 0

Type 2 Fonts

Albertus ‡
Albertus Italic ‡
Albertus Light ‡
AntiqueOlive Bold §
AntiqueOlive Compact §
AntiqueOlive Italic §
AntiqueOlive Roman §
Apple Chancery ¤
Arial ‡
Arial Bold ‡
Arial Bold Italic ‡
Arial Italic ‡
ITC AvantGarde Gothic Book *
ITC AvantGarde Gothic Book Oblique *
ITC AvantGarde Gothic Demi *
ITC AvantGarde Gothic Demi Oblique *
Bodoni
Bodoni Bold
Bodoni Bold Italic
Bodoni Italic
Bodoni Poster
Bodoni Poster Compressed
ITC Bookman Demi *
ITC Bookman Demi Italic *
ITC Bookman Light *
ITC Bookman Light Italic *
Carta •
Chicago ¤
Clarendon †
Clarendon Bold †
Clarendon Light †
CooperBlack
CooperBlack Italic
Copperplate Gothic 33BC
Copperplate Gothic 32BC
Coronet **
Courier
Courier Bold
Courier Bold Oblique
Courier Oblique
Eurostile **
Eurostile Bold **
Eurostile Bold Extended Two **
Eurostile Extended Two **
Geneva ¤
GillSans ‡
GillSans Bold ‡
GillSans Condensed Bold ‡
GillSans Bold Italic ‡
GillSans Condensed ‡
GillSans Extra Bold ‡
GillSans Italic ‡
GillSans Light ‡
GillSans Light Italic ‡
Goudy Oldstyle
Goudy Bold
Goudy Bold Italic
Goudy ExtraBold
Goudy Oldstyle Italic
Helvetica †
Helvetica Bold †
Helvetica Bold Oblique †
Helvetica Condensed †
Helvetica Condensed Bold †
Helvetica Condensed Bold Oblique †
Helvetica Condensed Oblique †
Helvetica Narrow †
Helvetica Narrow Bold †
Helvetica Narrow Bold Oblique †
Helvetica Narrow Oblique †
Helvetica Oblique †
HoeflerText Black ¤
HoeflerText Black Italic ¤
HoeflerText Italic ¤
HoeflerText Ornaments ¤
HoeflerText ¤
Joanna ‡
Joanna Bold ‡
Joanna Bold Italic ‡
Joanna Italic ‡
LetterGothic
LetterGothic Bold
LetterGothic Bold Slanted
LetterGothic Slanted
ITC Lubalin Graph Book *
ITC Lubalin Graph Book Oblique *
ITC Lubalin Graph Demi *
ITC Lubalin Graph Demi Oblique *
Marigold *
ITC Mona Lisa Recut *
Monaco ¤
New Century Schoolbook Bold †
New Century Schoolbook Bold Italic †
New Century Schoolbook Italic †
New Century Schoolbook Roman †
NewYork ¤
Optima †
Optima Bold †
Optima Bold Italic †
Optima Italic †
Oxford *
Palatino Bold †
Palatino Bold Italic †
Palatino Italic †
Palatino Roman †
Stempel Garamond Bold †
Stempel Garamond Bold Italic †
Stempel Garamond Italic †
Stempel Garamond Roman †
ITC Symbol *
Tekton •
Times Bold †
Times Bold Italic †
Times Italic †
Times Roman †
Times New Roman ‡
Times New Roman Bold ‡
Times New Roman Bold Italic ‡
Times New Roman Italic ‡
Univers †
Univers Bold †
Univers Bold Oblique †
Univers Oblique †
Univers Light †
Univers Light Oblique †
UniversCondensed †
UniversCondensed Bold †
UniversCondensed Bold Oblique †
UniversCondensed Oblique †
UniversExtended †
UniversExtended Bold †
UniversExtended Bold Oblique †
UniversExtended Oblique †
Wingdings *
ITC ZapfChancery MediumItalic *
ITC ZapfDingbats *

Type 2 Fonts: 136

Type 14 Fonts

Total Type 14 Fonts: 0

Adobe

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• registered trademark of Adobe Systems Incorporated
* trademark of AlphaOmega Typography
¤ trademark of Apple Computer, Inc.
** registered trademark of Ludlow Type Foundry
* registered trademark of International Typeface Corporation
† trademark of Linotype-Hell AG and/or its subsidiaries
§ registered trademark of Marcel Olive
* trademark of Microsoft Corporation
‡ trademark of The Monotype Corporation
** trademark of Nebiolo

RASTEXT

Appendix C

Specifications

Language

Adobe PostScript 3

Mechanical

Dimensions:	Height 30.0 mm Width 80.0 mm

Emulation name

in PJL	POSTSCRIPT
in EJL	PS

AppleTalk protocol

Entity Type	LaserWriter
Emulation Type	POSTSCRIPT-00

Standard

EMC directive 89/336/EEC

Font Samples

Albertus
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Albertus Italic
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Albertus Light
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Antique Olive Roman
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Antique Olive Italic
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Antique Olive Bold
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Antique Olive Compact
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Apple Chancery
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Arial
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Arial Italic
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Arial Bold
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Arial Bold Italic
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

ITC AvantGarde Gothic Book
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

ITC AvantGarde Gothic Book Oblique
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

ITC AvantGarde Gothic Demi
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

ITC AvantGarde Gothic Demi Oblique
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Bodoni
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Bodoni Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Bodoni Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Bodoni Bold Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Bodoni Poster

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Bodoni Poster Compressed

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

ITC Bookman Light

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

ITC Bookman Light Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

ITC Bookman Demi

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

ITC Bookman Demi Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Carta

Chicago

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Clarendon

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Clarendon Light

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Clarendon Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

CooperBlack

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

CooperBlack Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Copperplate Gothic 32BC

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ 1234567890

Copperplate Gothic 33BC

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ 1234567890

Coronet

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Courier

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Courier Oblique

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Courier Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Courier Bold Oblique

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

GillSans

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

GillSans Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

GillSans Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

GillSans Bold Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

GillSans Condensed
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

GillSans Condensed Bold
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

GillSans Light
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

GillSans Light Italic
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

GillSans Extra Bold
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Geneva
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Goudy Oldstyle
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Goudy Oldstyle Italic
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Goudy Bold
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Goudy BoldItalic
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Goudy ExtraBold
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Eurostile
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Eurostile Bold
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Eurostile Extended Two
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

Eurostile Bold Extended Two
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

Helvetica
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Helvetica Oblique
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Helvetica Bold
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Helvetica Bold Oblique
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Helvetica Condensed
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Helvetica Condensed Oblique
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Helvetica Condensed Bold
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Helvetica Condensed Bold Oblique
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Helvetica Narrow
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Helvetica Narrow Oblique
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Helvetica Narrow Bold
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Helvetica Narrow Bold Oblique
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Hoefler Text
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Hoefler Text Italic
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Hoefler Text Black
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Hoefler Text Black Italic
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Hoefler Text Ornaments

Joanna
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Joanna Italic
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Joanna Bold
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Joanna Bold Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

LetterGothic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

LetterGothic Slanted

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

LetterGothic Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

LetterGothic Bold Slanted

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

ITC Lubalin Graph Book

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

ITC Lubalin Graph Book Oblique

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

ITC Lubalin Graph Demi

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

ITC Lubalin Graph Demi Oblique

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Marigold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Monaco

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

ITC Mona Lisa Recut

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

New Century Schoolbook Roman

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

New Century Schoolbook Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

New Century Schoolbook Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

New Century Schoolbook Bold Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

New York

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Optima

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Optima Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Optima Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Optima Bold Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Oxford

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Palatino Roman

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Palatino Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Palatino Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Palatino Bold Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Stempel Garamond Roman

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Stempel Garamond Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Stempel Garamond Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Stempel Garamond Bold Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Symbol

ΑΒΧΔΕΦΓΗΙϑΚΛΜΝΟΠΘΡΣΤΥςΩΞΨΖ
αβχδεφγηιφκλμνοπθρστυϖωξψζ 1234567890

Tekton

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Times Roman

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Times Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Times Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Times Bold Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Times New Roman
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Times New Roman Italic
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Times New Roman Bold
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Times New Roman Bold Italic
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Univers
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Univers Oblique
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Univers Bold
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Univers Bold Oblique
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Univers Light
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Univers Light Oblique
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Wingdings

ITC ZapfChancery Medium Italic

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ITC ZapfDingbats

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