

LaserWriter 8.3:Color LaserWriter 12/600 PS ReadMe (4/97)

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TOPIC -----

This article contains the Read Me file included with LaserWriter 8.3 software which ships with the Color LaserWriter 12/600 PS Printer.

DISCUSSION -----

About Your Apple Macintosh LaserWriter Printer Software

This document contains some important reminders and some information that is not in the manual that comes with your printer. You may want to print this document and keep it for future reference. The topics are:

- Installing the Printer Driver Software
- Desktop PrintMonitor Version 1.0.1
- Apple Printer Utility Version 2.0
- LaserWriter 8 Printer Driver Version 8.3
- Using the Apple Color LaserWriter 12/600 PS Printer
- ullet Obtaining Printer Supplies for the Apple Color LaserWriter 12/600 PS

Installing the Printer Driver Software

The manual that comes with your printer contains detailed installation instructions. You cannot install the software and fonts by dragging their icons to your hard disk; you must use the Installer program as described in the printer manual. Your Macintosh must have System 7.1 or later. The printer software does not support QuickDraw GX systems.

IMPORTANT Before installing the printer software, restart your system with all Extensions turned off. To do this, hold down the Shift key while you restart your computer. Hold the Shift key down until you see the message "Extensions Off" or until your normal desktop appears.

The Installer does not remove versions of the LaserWriter printer driver that are older than version 8.0. If you no longer need these files, you may remove them from your System Folder.

The Installer does remove older versions of the LaserWriter 8 driver (for example, LaserWriter 8.0) and replaces the PPD files for Apple LaserWriter printers with the latest versions.

When you choose Easy Install, the Installer places the following files in the System Folder on your hard disk:

- LaserWriter 8.3 is placed in the Extensions folder.
- The PPD files which are used by LaserWriter 8 are placed in a folder called Printer Descriptions also located in the Extensions folder.
- TrueType fonts are installed in the Fonts folder.
- The Apple Printer Utility and this Read Me file are placed in the Apple LaserWriter Software Folder.
- For desktop printing, Desktop Print Monitor, Desktop Printer Spooler, and Desktop Printer Extension are placed in the Extensions folder.
- ColorSync 2.0 is placed in your Extensions folder. The ColorSync profiles are placed in a folder called ColorSync Profiles in the Preferences folder in the System Folder. The ColorSync System Profile control panel is placed in the Control Panels folder in the System Folder.
- If your system has System Software 7.1 or 7.1.1, Finder 7.1.3 is placed in your System Folder and Finder Help 7.1.3 is placed in the Extensions folder.
- If your system has System 7.1, 7.1.1, or 7.1.2, these files are placed in the Extensions folder: Thread Manager 2.1, Network Extension 7.1.3, Macintosh Drag and Drop 1.1.1, and Dragging Enabler 1.1.1.

IMPORTANT If the Installer is unable to remove old files from your hard disk, it will terminate the installation procedure. If this happens, please remove old copies of the LaserWriter 8 driver and the PPD files. Then move your Fonts folder from the System Folder to the desktop. Run the installer again. Once installation is complete, move the fonts from the Fonts folder on the desktop back to the new Fonts folder in your System Folder.

Desktop Print Monitor Version 1.0.1

Creating Desktop Printers

You create desktop printers by selecting a printer in the Chooser. The desktop printer icon is created when you close the Chooser.

Using Desktop Print Monitor on a non-English System

If no desktop printer icon appears after you install the printer software, it may mean the Installer installed PrintMonitor 7.1.2 and did not install the Desktop PrintMonitor. (PrintMonitor 7.1.2 is installed if you have an older

version of the PrintMonitor. Newer versions of the PrintMonitor are not replaced.) You have three choices:

- Use PrintMonitor 7.1.2 (or a later version)
- Obtain a set of installation disks of the printer software in the language of your system software from your Apple-authorized dealer and install it.
- Upgrade your system software to System 7.5 and install the printing software again. An English language version of the Desktop PrintMonitor is installed.

Removing the Desktop Printing Software

The desktop printing software uses both the Desktop PrintMonitor and the PrintMonitor software. The Desktop Print Monitor requires 200-400K bytes more free system memory in addition to the memory required by the PrintMonitor. If you don't want to use the desktop printing software, you can remove it. Follow these steps:

- 1. Drag any print spool files found in the PrintMonitor Documents folder (in the System Folder) to the Trash. Warning: these jobs will not be printed.
- 2. Restart your computer with the extensions off by holding down the Shift key and choosing Restart from the Special menu. Hold the Shift key down until the message "Extensions Off" appears or until your normal desktop appears.
- 3. Drag the following files from the Extensions folder to the Trash:
- . Desktop PrintMonitor 1.0.1
- . Desktop Printer Spooler 1.0.1
- . Desktop Printer Extension 1.0.1.
- 4. Restart your computer.

Using Save or Open with Desktop Printers

When you choose Save or Open in your application programs, you will see your desktop printers listed as if they were folders, but you should not save or open any documents in them. If you do, you will not be able to access your documents.

Having More Than Five Desktop Printers

If you want to have more than five or six desktop printers, you must increase the Desktop PrintMonitor memory allocation by 10K for each additional desktop printer you want. To do so, select its icon--it's in the Extensions folder inside the System Folder--choose Get Info, type a larger number in the Preferred Size box, then close the Get Info window.

Apple Printer Utility Version 2.0

Installing the printer software creates the Apple LaserWriter Software folder and places within it this ReadMe file and the Apple Printer Utility program version 2.0. The Apple Printer Utility program is designed to work with all Apple PostScript Level 2 printers.

Downloading PostScript Fonts on a GX System with the Apple Printer Utility

When GX is installed any PostScript fonts (often called Type 1 fonts) in the

Fonts folder are converted to GX fonts, and the original PostScript fonts are copied to a folder called •Archived Type 1 Fonts• which is created in the System Folder. If you want to download these fonts to your printer using the Apple Printer Utility, you must send the fonts in the •Archived Type 1 Fonts• folder, not the GX-converted versions in the Fonts folder. Downloading GX fonts that have not been converted by GX works correctly.

Removing Fonts from a Hard Disk Attached to the Printer

If a font is downloaded to both the printer's RAM and the printer's hard disk with the same name, and you remove the font on the hard disk, the RAM font will also be removed. If you remove the RAM font, the font on the hard disk will not be removed.

LaserWriter 8 Printer Driver Version 8.3

The software includes version 8.3 of the Apple LaserWriter 8 printer driver, which works with many Apple LaserWriter printers. This section includes information about the software and information on using it with several of the printers.

What's new in version 8.3

LaserWriter 8 now provides support for color-matching and for embedded JPEG-compressed documents. LaserWriter 8 now supports ColorSync 2.0, Apple's latest system software for device-independent color-matching services, and PostScript Level 2 color-matching.

Using Color-matching

When ColorSync 2.0 is installed and when the ColorSync Profiles folder contains printer profile(s) there are two options for color/grayscale output:

- ColorSync Color Matching invokes the ColorSync system software to perform color matching for the printed document, matching your monitor and printer's profile and sending the correct CMYK information to the printer. With ColorSync Color Matching, most of the work is done by your Macintosh.
- PostScript Color Matching is an alternative to ColorSync Color Matching. This option is a good choice when printing to a PostScript Level 2 printer and when it is efficient to let the printer do most of the work.
- Documents that use ColorSync 1.0 embedded profiles convert to the profile set up in the ColorSync 2.0 System Profile control panel.
- When printing with PostScript Color Matching selected and ColorSync 2.0 is not installed, the driver uses the Apple 13" RGB Standard profile.
- Applications that generate their own PostScript may have problems color matching EPS or TIFF images correctly. Converting the image to a PICT corrects the problem.

PPD Files

The LaserWriter 8 driver uses PostScript Printer Description (PPD) files to determine the characteristics of the printers it uses. PPD files contain information about individual PostScript printers. For example, PPD files describe the paper-handling capabilities of printers: the number of paper trays, their capacity, and the paper sizes they handle.

To take full advantage of your printer's features, click the Setup button in the Chooser when selecting your printer for the first time, or after installing an additional option. This procedure causes the LaserWriter driver to query the printer for its characteristics and associate a particular PPD file with the printer.

Creating EPS Files

You can create an Encapsulated PostScript (EPS) file in many application programs by clicking File in the Print dialog box, then clicking Save. When you create an EPS file, note the following:

- Creating EPS files with the All option selected in the Font Inclusion pop-up menu in the EPS dialog box can result in very large files. If you include all fonts in an EPS file and save the file with the Unlimited Downloadable Fonts option selected, an extremely large file may be created.
- If you create an EPS file with no fonts included and open the document, fonts in the document appear on your screen, but Courier may be substituted when you print.
- When you create EPS files with preview information included, other applications that create their own PostScript code may not display the EPS file accurately on the screen.

Using the LaserWriter 8 Driver With LaserWriter Printers

When using the LaserWriter 8 driver, you should be aware of the following situations. Some happen with all LaserWriter printers, and others happen only with specific models.

All LaserWriter Printers

- The LaserWriter 8 driver allows some printers to print using a larger imageable print area on the page. If your printer does so, you may find that text in some documents reflows or is clipped to fit the new imageable area. To maintain your document format when printing to different printer models, deselect the Larger Print Area option in the Page Setup Options dialog box.
- Some older printers with small amounts of memory will not print documents containing large numbers of fonts unless you select the Unlimited Downloadable Fonts option in the Page Setup Options dialog box. If a document using multiple fonts doesn't print using the LaserWriter 8 driver, try selecting Unlimited Downloadable Fonts in the Page Setup Options dialog box and print again.

- Printing multiple documents with the Finder may not work if the documents have been created by different application programs.
- If you encounter a time-out (PostScript error -8993) when printing multiple copies of large and complex documents in the background, print the documents one at a time or select foreground printing to avoid this problem.

LaserWriter 16/600 PS

If Tray Switching is turned on and you have an optional 500-sheet feeder that contains the same size paper as the 250-sheet feeder, use the 500-sheet feeder as the preferred paper source for optimal printing performance. See Chapter 5 in the manual that came with your printer for instructions on selecting the 500-sheet feeder as the preferred paper source.

LaserWriter Pro 810

- With some graphics applications, bitmapped graphics printed with the Precision Bitmap Alignment option in the Page Setup Options dialog box will be reduced in size by 25%.
- When you create a PostScript file with a LaserWriter Pro 810 selected as the printer and send the file to a printer that uses PostScript Level 1, a PostScript error will occur.

LaserWriter Pro 600 and 630

- When you print envelopes from the optional envelope feeder, you cannot use Auto Select as the Paper Source (in the Print dialog box).
- When you print at a resolution of 600 dots per inch (dpi), bitmapped images may appear with lines across the image.

LaserWriter II NT and II NTX

- If you select both the Smooth Graphics and the Invert Image options in the Page Setup Options dialog box, a PostScript error results.
- $\bullet\,$ Do not use the B5 tray to print envelopes on a LaserWriter II NT. Use the letter tray instead.

LaserWriter IIg and IIf

- When you select paper sources from the First From and Remaining From pop-up menus in the Print dialog box, selecting Manual Feed for either source sets the driver to print the first page from the manual feed tray.
- The US Legal paper size has been changed on some LaserWriter IIf/IIg printers to be more compatible with other Apple LaserWriter printers. If your legal-sized documents no longer fit on the page, select Larger Print Area in the Page Setup Options dialog box.

• Some form-printing applications cannot print forms using the Layout settings in the Page Setup dialog box.

Using the LaserWriter 8 Driver With the Kanji System

To print Japanese characters using KanjiTalk or the Japanese Language Kit, your system must have WorldScript II version 7.5.1 or later.

Using the LaserWriter 8 Driver With Application Programs

Some application programs do not yet take advantage of the new features of the LaserWriter 8 driver or have small incompatibilities that result in printing problems. If you experience problems with a program, contact the publisher of the program. In some cases a newer version of the program may be available.

The following list describes some special cases that you should be aware of when working with some application programs. (There may be other problems with these programs, or with other programs, not mentioned in this document.)

- With many applications, you cannot use the Flip Horizontal, Flip Vertical, landscape page orientation, and Layout option in the Page Setup dialog box in combination.
- Some applications may not be able to print from the Finder or use the Drag and Drop printing feature.
- · Some applications may print in color when Black and White mode is selected.
- Applications that generate their own PostScript may have problems color matching EPS or TIFF images correctly. Converting the image to a PICT corrects the problem.

Adobe Illustrator 5.5

• Multiple-page documents may not print correctly when you choose a page layout from the Layout pop-up menu in the Page Setup dialog box.

Adobe Photoshop 2.5 and 3.0

· Photoshop may print in color when black-&-white mode is selected.

Aldus Freehand 4.0 & Freehand 5.0

- Documents do not print correctly when you choose a page layout from the Layout pop-up menu in the Page Setup dialog box.
- Some paper sizes in Freehand may not be supported by the printer and may generate Postscript errors.

Aldus PageMaker 5.0

• Rotated graphics may not print correctly when you hold down the Option key and click Print in the Print dialog box.

• You cannot print legal-size documents from the paper cassette of the Personal LaserWriter 320; print such documents by selecting Manual Feed or by holding down the Option key and clicking Print in the Print dialog box.

Aldus Personal Press 2.02

• Using several font style combinations in text can result in spacing problems.

Aldus SuperPaint 3.5

- · Rotated or filled polygons print as solid gray objects.
- Gradient fills may not print when copied into other programs.

Canvas 3.5.2

• When you select the Substitute Fonts option in the Page Setup Options dialog box, text may be incorrectly spaced if you use the Geneva, New York, or Monaco fonts.

ClarisDraw 1.0

· Some shapes that contain gradients may not print correctly.

CricketDraw III 2.01

• When you choose a page layout from the Layout pop-up menu in the Page Setup dialog box, underlined TrueType fonts may not print.

CricketPresents 2.1

• You cannot import an EPS file created with the LaserWriter 8 driver when it has been saved without preview information.

DeltaGraph Pro 3.0.4

• Printing with Unlimited Downloadable Fonts may cause some elements to be shifted and fonts to substitute Courier.

FileMaker Pro 2.1

• When you choose a page layout from the Layout pop-up menu in the Page Setup dialog box, documents that contain EPS graphics may appear clipped when printed.

Informed Designer/Manager 1.4.2

- Do not print documents that contain JPEG images in Black and White mode; your system will restart.
- When you select the Unlimited Downloadable Fonts option, some graphic elements may shift or disappear when printed.

MacDraft 3.01 and earlier versions

· When you print using the Cut Marks option, a PostScript error results.

MacDraw Pro 1.5

 Rotated text within a frame that is placed in another application may not print correctly.

MacWrite Pro

• Colored text with colored underlines may not print correctly from the Finder.

Microsoft Excel 5.0

• Colored horizontal cell borders will often not appear in the printout. This happens with any color printing option and on most printers.

Microsoft PowerPoint 3.0

• Polygons and ovals filled with gradients and without a border line may shift locations on the page when printed.

Microsoft Works 3.0

• Printing documents that have rotated objects with rounded corners results in a PostScript error.

Microsoft Works 4.0

• There are 24 new shapes available through the tools palette. Colored shadows for any of these shapes will appear correctly on screen. But these colored shadows will only print in gray, regardless of what the print color options might be.

Painter 3.0

• When you print using the Invert option, images do not print inverted correctly.

PixelPaint Pro 3.0

• When you print using the Invert option, images do not print inverted correctly.

Publish It!

• Use a pre-LaserWriter 8 version of the driver, or contact the publisher of the application program.

QuarkXPress 3.3.1

- Be sure to use the PPDs provided with QuarkXPress when you choose a page layout from the Layout pop-up menu in the Page Setup dialog box.
- With some PPDs (LW 630, PLW 320), cropped graphics may not print correctly.
- Some imported JPEG files may not print correctly.

RagTime 3.2

· You cannot print documents that contain PICT or TIFF files.

ReadySetGo! 6.0

- Use ReadySetGo! version 6.0 with the LaserWriter 8 printer driver; earlier versions will not work.
- When Unlimited Downloadable Fonts option is selected, ReadySetGo! will not print a document containing a JPEG, text, and polygons.
- You may not be able to print documents that contain layers of text, graphics, then text with Unlimited Downloadable Fonts option selected.
- · You cannot print documents that use pen patterns.

Studio/8 & Studio/32

• When creating an EPS file with these programs and the LaserWriter 8 driver, you must select the QuickDraw Printer option.

WordPerfect 3.0

- When you select the Unlimited Downloadable Fonts option and print rotated text in Watermark, the entire document rotates when printed.
- When you select the Unlimited Downloadable Fonts option, Watermark option, and Color/Grayscale option, black text prints as gray.

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How to Get Updated Printer Software
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The latest LaserWriter 8 software is posted to the following commercial online services and Internet sites.

- On the Internet at the following sites:
 - Worldwide Web: http://www.info.apple.com/swupdates
 - ftp: <ftp://ftp.info.apple.com/>
- On America Online, use keyword: applecomputer
- On CompuServe, use GO: APLSUP

Using the Apple Color LaserWriter 12/600 PS Printer

This section provides additional information on using the Color LaserWriter 12/600 PS Printer.

About the Demonstration Page

When the power is turned on, by default the Color LaserWriter 12/600 PS prints a startup page and a demonstration page. For legal and b5 paper sizes only the startup page prints; the demonstration page is not printed.

About the Apple Color LaserWriter 12/600 PS Status Panel

As described in the Color LaserWriter 12/600 PS manual, Appendix G, the status panel lights aid in indicating hardware service problems found during printer startup. If the Paper Out and Paper Jam lights are blinking alternately, a hardware problem has been detected. To identify the specific problem, notice which toner lights (C, M, Y, Bk) and how many of the maintenance lights (in the area on the right-hand side of the status panel) are lit, and refer to the table below:

Toner Lights ON	# Maintenance Lights ON	Problem
С	0	I/O Controller Board
С	1	SIMM, Slot J11
С	2	SIMM, Slot J10
M	2	Hard Drive
M	3	I/O Controller ROM
Y	0	Fuser
Y	1	Oil Pump in Fuser
Y	2	Thermal Sensor in Fuser
Y	3	Paper Feed Unit
K	0	DC Controller
K	1	Power Supply
K	2	Toner Carousel
K	3	Laser/Scanner Circuit
M & Bk	0	Main Motor
M & Bk	1	Drum Motor
M & Bk	2	Laser/Scanner
C & Bk	0	Controller Fan
C & Bk	1	Fuser Fan
C & Bk	2	Main Fan

Obtaining the Best Results for Business Graphics

To obtain the best results for business graphics, colors should be 100% saturated. For example, to print pure yellow, define yellow as 100% red and 100% green without any blue. Then print your document, selecting the Color/Grayscale option in the Options Print dialog.

Printing on Legal-sized Paper

In the standard memory configuration, the Color LaserWriter 12/600 PS uses a higher compression technique for legal-sized paper using only the cyan, magenta and yellow color planes. As a result of this compression technique, very complex pages may show missing pixels in fine lines or small text, "jaggies" (edges with low-resolution appearance) and color changes. To improve the image quality of such pages, you can increase the printer's memory to 16 MB or more. With at least 16 MB of printer memory, the Color LaserWriter 12/600 PS can

achieve the same quality with legal-size pages as with letter and A4 sizes using all four color planes (cyan, magenta, yellow and black.)

Printing Images on the Color LaserWriter 12/600 PS Printer

The Color LaserWriter 12/600 PS Printer's highest resolution for printing images is 150×150 dpi. No gain in image quality is achieved if higher resolution images are used. All other types of documents print at 600×600 dpi.

The Density Control Panel

The printer has been adjusted at the factory to produce the best possible image quality. There are always small variations in color between different printers. You can use the density control panel on the back of the printer to make subtle changes. Changing the settings however may produce images of an inferior quality. To return to the factory settings, press both the + and - buttons on the density control panel together.

Setting Your ColorSync System Profile for Best Printing Results

Before using ColorSync color-matching to print to the Color LaserWriter 12/600 PS printer, set the ColorSync System Profile for the monitor connected to your system. To do this open Control Panels in the System Folder and double-click ColorSync System Profile. Make sure the following settings are selected:

- Set the profile for the monitor connected to your system. For the best color match when printing, select the "page-white" or "D50" system profile for your type of monitor if one is available.
- For the best visual match between the colors on your monitor and printed colors, select the Page-White Gamma option in the Monitors control panel. To select a gamma option, open the Monitors control panel, then hold down the Option key while you click the Options button. In the Options window, click the Use Special Gamma checkbox to put a check in it. Then choose Page-White Gamma from the menu.
- On a multiscan monitor, make sure that the color temperature, or intensity, is set to 9300K (the default setting). See the monitor manual for instructions. If the Page-White Gamma option is selected with a color temperature other than 9300K, your monitor colors could look too red or too blue compared to printed colors.

Obtaining Printer Supplies for the Apple Color LaserWriter 12/600 PS**

To order printer supplies for the Color LaserWriter 12/600 PS direct from Apple, call 1-800-600-7805. For order numbers, see Appendix A of the printer manual:

- toner cartridges
- transparencies
- photoconductor cartridge (includes toner disposal boxes)
- fuser oil
- fuser

Instructions for replacing the fuser are in Appendix F of the printer manual. Instructions for replacing other printer parts come in the new packages.

For the location of the nearest Apple-authorized dealer, call 1-800-538-9696,

extension 525.

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End ReadME File

**This is not included in the original ReadMe file: Here are the parts available through 1-800-600-7805:

Color LaserWriter Cyan Toner Cartridge: M3757G/A
Color LaserWriter Magenta Toner Cartridge: M3760G/A
Color LaserWriter Yellow Toner Cartridge: M3758G/A
Color LaserWriter Black Toner Cartridge: M3756G/A
Color LaserWriter Photoconductor Replacement Kit: M3761G/A
Color LaserWriter Fuser Oil: M3755G/A

Cassettes, transparencies, and networking options are not available through this number.

Part numbers mentioned in this article are accurate as of this writing. Before ordering, verify that they are still correct as they are subject to change.

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