

AdobeSM Customer Services

Printing Documents with Created Instances

All applications that support fonts will allow you to use Multiple Master typefaces. Documents that contain only primary instances of Multiple Master fonts will print correctly from any Macintosh equipped with Multiple Master.

The Multiple Master font, the Multiple Master INIT, ATM™ 3.0, and Adobe Type Reunion™ 1.0.3 must be installed on the printing Macintosh.

Created instances, however, pose a potential problem for some applications. The created instance used in the document must be available on the printing computer, and there can be no Font ID conflicts between these instances and other fonts installed (see the section on Font ID conflicts at the end of this technical note). Some applications, such as Adobe Illustrator™, take care of this by creating the necessary instances automatically and referencing fonts by name rather than number. However, others do not yet adequately support Multiple Master typefaces.

If you use an application that does not fully support Multiple Master fonts, there are two workarounds:

- 1 The easiest way is to save the document as a PostScript™ file to a disk from the creating computer and download that document to the printer or imagesetter RIP. (See the section on creating a usable PostScript file at the end of this technical note for instructions.)
- 2 Or, save the Multiple Master font suitcase, and provide it, along with the document, to the person doing the output. Using a font utility such as Suitcase™ II, MasterJuggler™, or FontPorter™ to manage fonts makes this process much easier. Close *all* suitcase files that are not essential to the current document to minimize Font ID conflict problems. Load the suitcase onto the printing Macintosh, and open it with a font utility program. View the document. If the fonts do not appear correctly, create the instances by hand and specify them again in the document (using the replace option for styles and fonts is handy for this).

Detailed information for printing documents created on different Macintosh computers containing created font instances follows.

Adobe Illustrator 3.2

Adobe Illustrator 3.2 fully supports documents containing created instances. Adobe Illustrator will generate any Multiple Master fonts missing from the system and correctly place them in the document. The font will appear on the font menu, and be available for use in all applications until you restart the Macintosh, at which point the font will be flushed from the computer's RAM. To keep the font instance(s) for permanent use, restart the Macintosh and create it in the Font Creator.

Aldus FreeHand® 3.1

Aldus FreeHand 3.1 supports created instances within a document. Aldus FreeHand generates any Multiple Master fonts missing from the system and correctly places them in the document. However, fonts will not appear on the font menu until you exit Aldus FreeHand either by quitting or selecting Finder™ under System 7™ or Multifinder®. Back in Aldus FreeHand, the fonts will then appear in the font menu. Fonts generated by Aldus FreeHand will be available to other applications until you restart the Macintosh. Then the fonts will be flushed from the computer's RAM. To keep the font instance(s) for permanent use, restart the Macintosh and create it in the Font Creator.

Aldus PageMaker® 4.2

PageMaker 4.2 will not create instances needed in a document. It will, however, show in its font menu which instances were used within the document and any instances created during a session. Either create the necessary instances or use one of the two workarounds given on page 1 of this technical note.

Additionally, the Aldus driver does not currently recognize Multiple Master fonts unless the font is manually downloaded into the printer's RAM first. Use the Apple® LaserWriter® driver to print directly from PageMaker (hold down the option key while selecting Print from the File menu).

QuarkXPress® 3.1

QuarkXPress fully supports documents containing created instances. But first install the Multiple Master Utilities Extension (contact Quark for information about obtaining this extension). With the extension installed, QuarkXPress will generate any fonts missing from the Macintosh and correctly place them in the document. These font instances will appear on the font menu and be available for use in all applications until you restart the Macintosh, when the font will be flushed from the computer's RAM. To keep the font instance for permanent use, create it in the Font Creator. The Font Creator utility also appears on the QuarkXPress Utilities menu.

***Note:** If Adobe Illustrator files contain Multiple Master typefaces and are placed in the Quark document, you must be using QuarkXPress 3.11 or higher.*

All other applications

All other applications, including Microsoft® Word, Microsoft Excel™, WordPerfect®, and Claris® MacWrite® II do not yet fully support Multiple Master fonts. To print documents containing created instances of fonts from these applications, use one of the two workarounds given on page 1 of this technical note. Contact the application's manufacturer for further information regarding when the application will support Multiple Master fonts.

CREATING A POSTSCRIPT FILE TO DISK

For System 7

- 1 Go to the Print dialog box for the Apple LaserWriter driver by selecting Print from the application's menu.
- 2 Click the PostScript File radio button for the Destination selection.
- 3 Click the Print button.

For System 6

You must be in Finder, not in Multifinder.

- 1 Go to the print dialog box for the Apple LaserWriter driver by selecting Print from the application's menu.
- 2 Click the Print button, and then immediately press Command-F to write a PostScript file to disk. Do not press Command-K because this file will not print Multiple Master fonts.
- 3 Click on the Print button.

** Important note for PageMaker 4.2 users: Do not use the Aldus® driver to create a PostScript file. You must use the Apple LaserWriter driver because the Aldus driver is incompatible with Multiple Master fonts. To select the Apple driver, hold down the option key and select Print from the File menu.*

DIVIDING A LARGE POSTSCRIPT FILE INTO SMALLER FILES

To save a document in PostScript format that is too large to fit onto your disk, split the file into two or more smaller files.

- 1 Follow the above procedure, but before clicking the Print button, select a page range that will fit on your media. (Use trial and error to see what range works best.)
- 2 After saving the first section, repeat these steps with subsequent page ranges until the entire document has been saved.

FONT IDS

All screen fonts have a (supposedly) unique number associated with them called a Font ID number. The Macintosh operating system can accommodate more than 16,000 different numbers. Until recently, this has been adequate. However, especially with Multiple Master fonts where more than 16,000 different instances can be made from just one font, chances for a conflict between two fonts with the same ID # increase.

Whenever an instance is created, the system checks to see what Font IDs are being used on that specific system and then assigns a different number to the new instance. Applications that use Font ID numbers then reference that font by that number. This is no problem until you take the instance to another machine, which may have different fonts installed and may, therefore, have a Font ID conflict.

Apple encourages application software writers to reference fonts by name rather than ID number. This eliminates the potential for conflicts. Some applications do this, but most don't.

There are utilities that eliminate conflicts, but do not use these. Changing the ID number of the non-Multiple Master font will put it out of sync with the rest of the world because it will not have the correct ID number any longer. Changing the ID number of the Multiple Master instances makes more sense. But whether you change the instance's ID number or re-create the instance, respecify the font throughout the document.

Although there is a good chance that closing unused suitcases will avoid conflicts, the best way is for the person creating the document to supply it as a PostScript file(s) when using an application that does not fully support Multiple Master fonts.