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## **Cartridges**

When you first run Control Panel to set up the PCL / HP LaserJet printer, you must select the appropriate font cartridge from the list of cartridges in the Cartridges list box. The driver offers many different cartridges for you to choose from. You can use additional cartridges if you have the appropriate Printer Cartridge Metric (PCM) file. PCM files may be obtained from your font cartridge vendor.

The type of cartridge you select affects the type of fonts and font sizes you will be able to use in your Windows applications. Be sure to select a cartridge before you format your documents.

For more information on installing font cartridge PCM files, select the Fonts button in the printer setup dialog box of Control Panel. Then choose the Help button in the Installer dialog box.

## **Copies**

The Copies option tells Windows how many uncollated copies you want to print from an application. This setting is independent of the Copies option that may be available in your Windows application, so you can either set this option in your application or in the printer setup dialog box. You should experiment to determine whether the option for the application or the driver works best. Do not use the two options simultaneously.

Generally, setting the number of copies in the printer setup dialog box will produce faster uncollated output. Setting the number of copies in your application will slow down printing, but the copies would be collated.

## **Defining Printer Memory**

The Memory option, which defines the amount of memory installed in a printer, must be configured for your specific printer. Windows uses this information to determine the amount of memory you have available for printing.

Most printers come with a minimum amount of memory as a standard configuration. If you are unsure how much memory is installed in your printer, accept the default setting. Or contact your printer manufacturer or dealer to find out how much memory your printer has.

## **Graphics Resolution**

The Graphics Resolution settings in the printer setup dialog box affect the resolution of graphic images only, not text. Graphics resolution is measured in dots per inch (dpi). Choosing 300 dpi will produce finer, higher-quality output. The output quality decreases as the resolution decreases to 150 and 75 dpi. However, on most printers, higher resolution output will take longer to print.

The amount of resident memory in your PCL / HP LaserJet printer determines the amount of graphics you can print on one page at higher resolutions (such as 300 dpi). The more memory your printer has, the more of a graphic image you can print at higher resolutions.

If the printer does not print the entire graphic image on one page and displays an error message, then most likely the printer has run out of memory. You either need to install more memory in your printer or choose a lower graphics resolution setting. In some cases, certain types of graphics (such as borders drawn around the edge of the paper) will take more memory at 75 dpi than at 150 or 300 dpi. Therefore, you might want to experiment with different resolutions before purchasing more memory. See your printer manufacturer or dealer for more information on how to obtain printer memory.

## **Gray Scale Graphics**

Gray scaling is a method the printer driver uses to define up to 32 intensities of gray in graphic images. When Gray Scale is turned on, the printed image will have a more realistic appearance. This is especially true when sending a color graphic image to a black and white printer because the different colors will be printed as different shades of gray.

Gray scaling does diminish the definition of the graphic image. If high definition is preferred, Gray Scale should be turned off.

## **Orientation**

Print orientation can be Portrait or Landscape. Portrait orientation means the page is taller than it is wide when you view the printed text upright. Landscape orientation means the page is wider than it is tall when you view the printed text upright.

## **Page Protection**

"Page Protection" refers to a LaserJet III / IIID printer setting that reserves additional memory for the creation of page images. Page protection is only available if you have installed at least 1 megabyte of optional memory in your LaserJet printer. The selection in this Window menu should correspond with the selection on your printer's control panel settings.

The default is OFF. Other selections are LTR (letter-size paper), A4, or LGL (legal-size paper). To verify how your printer is configured, you can run a Self Test on your LaserJet printer.

The page protection feature allows the printer to create an entire page image in memory before physically moving the paper through the printer. This process ensures that the entire page will be printed and helps eliminate the "21 PRINT OVERRUN" error that can sometimes appear on the display of your LaserJet printer.



## **Paper Source and Paper Size**

Support for different paper sources and paper sizes varies according to the printer model you have chosen. (Paper size is listed beside each entry.) You should choose the default paper source and size you plan to use when printing from a specific Windows application. If you select an automatic or autofeed option, Windows uses the default paper source configured for the printer. The default paper source is configured for the printer with the control panel menu on your printer or with switch settings.

If you choose Manual or Envelope for the paper source, Windows will use this option only until you exit Windows. The next time you start Windows, the paper source option will revert to the default paper tray for automatic feeding.

## **Selecting a Printer Model**

In order for Windows to print properly to your printer, you must select the appropriate printer model from the Printer list in the printer setup dialog box. This ensures that Windows will provide any unique support available on your printer, such as paper bins or trays, paper sizes, and fonts.

If your printer model is not listed, choose the printer model your PCL / HP LaserJet printer most closely emulates.

## **Setting Up Soft/Downloadable Fonts**

Soft/Downloadable fonts are printer fonts that you copy onto your computer's hard drive and download to your printer. To use soft fonts, your printer must have the proper hardware. The original HP LaserJet does not support soft fonts. However, the other printers in the LaserJet series do support soft fonts. If you have a printer that emulates an HP LaserJet printer and you want to use soft fonts, you should refer to your printer manual or contact your printer dealer or manufacturer to determine if your printer supports soft fonts.

Many soft fonts include installation programs of their own. We recommend that you use the installation program provided. If you use one of these installation programs, make sure that you install the font as a Windows-compatible font (if available).

If you have fonts that do not include their own installation program, you can use the Printer Font Installer to install the fonts in Windows. To do that, choose the Fonts button in the PCL / HP LaserJet dialog box.

For more information on using the Printer Font Installer, select Help from the Installer dialog box.

## **Special Options**

Special options are available supporting duplex (two-sided) printing for the HP LaserJet IID printer. The default selection is "None" for single-sided printing. If you want to print in duplex mode, you should determine how your finished document will be bound:

"Long-edge" binding setup in portrait orientation is used for conventional layouts in book binding. Long-edge in landscape orientation is often used in accounting and spreadsheet applications because pages can be flipped through as on a clipboard.

"Short-edge" binding setup in portrait orientation is often used for calendar-like books. Short-edge in landscape orientation is another variation of conventional book layouts.

