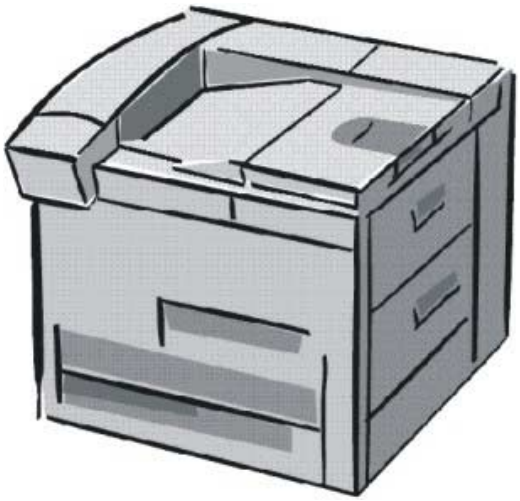
Software Technical Reference for the HP LaserJet 8150 Series Printers (8150, 8150N, 8150DN, 8150HN, 8150MFP)



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Purpose and scope

This technical reference provides information and troubleshooting tips for the printing system software for HP LaserJet 8150 series printers.

The following information is included in this technical reference:

- Descriptions of drivers and platforms with system modifications
- Procedures for installing and uninstalling software components
- Descriptions of problems that can arise while using the printer and known solutions to those problems
- Descriptions of known software bugs and workarounds

Each printer model is slightly different, as explained below. The system software is written to accommodate these differences:

- **HP LaserJet 8150.** The HP LaserJet 8150 printer (product number C4265A) comes standard with 32 megabytes of random-access memory (MB RAM),
wide-format printing, two 500-sheet trays, and a 100-sheet multipurpose tray. This is the base model.
- **HP LaserJet 8150N.** This model (product number C4266A) is similar to the HP LaserJet 8150 printer, but also includes an HP JetDirect enhanced input/output (EIO) print server and a printer embedded Web server.
- **HP LaserJet 8150DN.** This model (product number C4267A) is the same as the HP LaserJet 8150N printer with the addition of a duplexing unit for printing on both sides of media.
- **HP LaserJet 8150HN.** This model (product number C4269A) is the same as the HP LaserJet 8150DN printer with the addition of a 2000-sheet input tray (tray 4) and a 3000-sheet stacker.
- **HP LaserJet 8150MFP.** The HP LaserJet 8150MFP (multi-function product) printer (product number C4268A) comes standard with 64 MB RAM, wide-format printing, hard disk, two 500-sheet trays, a 100-sheet multipurpose tray, a 2000-sheet input tray (tray 4), a 3000-sheet stapler/stacker, an HP JetDirect EIO print server, a duplexing unit (for printing on both sides of media), a copy-connect EIO board, and an HP Digital Copy Module.

NOTE:	Bundle configurations might vary among geographic regions. The information in this document supports the in-box solution for product introduction. Version 2.0.0.0 of the HP LaserJet Printing System software is scheduled for release one month after product introduction.

This document is prepared in an electronic format to serve as a quick reference tool for support engineers, system administrators, management information systems (MIS) personnel, and HP LaserJet 8150 end-users, as appropriate.

Throughout this document, "you" refers to the customer or end-user.

Software description

Introduction

The printer comes with software and installers for Microsoft® Windows® and Apple Computer, Inc., Macintosh™ systems. UNIX® and OS/2 systems are supported but are available only through the Web. For particular information about a system's installer, drivers, and components, locate the section that corresponds to that system.

Supported operating systems

The following operating systems support a full-featured configuration of the HP LaserJet 8150 printer software, including standard printer command language (PCL) and PostScript® emulation drivers:

- Windows 3.1*x* (PCL 6 and PCL 5e supported through the use of the HP LaserJet 8100 printer drivers: PostScript supported with HP LaserJet 8150 PPD)
- Windows 95 and 98
- Windows NT 4.0 (Service Packs 1-6)
- Windows 2000 (Service Pack 1)
- Windows Me
- IBM OS/2 2.0 or greater
- Mac OS System 7.5.3 or higher (PostScript only)

NOTE:	The HP LaserJet 8100 PCL 6 and PCL 5e drivers necessary for Windows 3.1*x* systems are included on the HP LaserJet 8150 Printing System Installer compact disc (CD-ROM).

Supported network operating systems

The following network operating systems support a full-featured configuration of the HP LaserJet 8150 printer software, including standard PCL and PostScript emulation drivers:

- Windows NT 4.0
- Windows 2000
- Novell NetWare 4.*x*
- Novell NetWare 5.*x*
- HP-UX

Technology backgrounders

Bidirectional communication

The HP LaserJet 8150 printing system software uses a new bidirectional communication technology. Previous versions of printing system software used Cooperative Object Layering Abstraction (COLA) architecture.

Bidirectional communication describes the printer's ability to respond to data inquiries from your computer and report back information, such as what type of paper is available or what accessories are connected to the printer. If a printer does not have this capability (no bidirectional mode), it can only accept commands from the host and cannot report information back.

Driver Autoconfiguration and Job Status and Alerts use bidirectional communications software. The typical installation installs Driver Autoconfiguration in supported environments that contain the bidirectional software. Use the custom installation when you do not want these features.

Bidirectional communication depends on your network operating system and the method used to connect your printer to the network.

The following table provides information about the operating systems and network environments that support bidirectional communication for the HP LaserJet 8150 series printers.

			Client operating system					
Port type			**Windows 95**	**Windows 98**	**Windows Me**	**Windows NT 4.0**	**Windows 2000**	**Mac**
Direct	IR							AppleTalk
	USB							AppleTalk
	LocalTalk							AppleTalk
Local Port Monitor	JetDirect	TCP/IP	X	X	X	X	X	AppleTalk
		IPX/SPX	X	X	X	X	X	
	Standard	TCP/IP (HP)	X	X	X	X	X	
		TCP/IP (MS)					X	
		IPX/SPX (HP)	X	X	X	X	X	
	LPR					X	X	
Novell	NetWare 4.*x*	Bindery queue	X	X	X	X	X	
		NDS queue	X	X	X	X	X	
	NetWare 5.*x*	Bindery queue	X	X	X	X	X	
		NDS queue	X	X	X	X	X	
Microsoft Share	Windows 9.*x* host	TCP/IP	X	X	X	X	x	
		IPX/SPX	X	X	X	X	X	
	Windows NT 4.0 host	TCP/IP	X	X	X	X	X	
		IPX/SPX	X	X	X	X	X	
		LPR	X	X	X	X	X	

Euro character

The euro is the name for the currency of the European Union (EU). Use of this unit was launched on 01-January-1999. The euro has changed the way business is conducted in Europe and has affected every company and industry on the continent. It is vital that companies understand and prepare for the changes the Euro brings.

For the HP LaserJet 8150 printer series includes euro characters for each of the Internal fonts. The HP LaserJet 8150 series printers can print the euro character in the Windows 9x, Windows Me, Windows NT 4.0, and Windows 2000 environments. Hewlett-Packard is committed to maximizing document portability through supporting and promoting euro symbol standards.

Printing system components

Printing system and installer

Printing system version

HP LaserJet 8150 printing system version 1.0.0.0

Installer version

HP LaserJet 8150 installer version 1.0.0.0

Installer features

The common installer is designed to provide a simple and consistent installation method for the product line. The common installer is available for the Windows 9*x*, Windows Me, Windows NT 4.0, and Windows 2000 operating systems.

The HP LaserJet 8150 series printers feature a new common installer. This new installer offers several improvements over the HP LaserJet 8100 series:

- The HP LaserJet 8150 Printing System Installer CD-ROM features a CD-ROM browser from which you can install the printing system software, register your HP LaserJet 8150 series printer, view the user documentation and install Adobe® Acrobat™ Reader software if necessary, start a customization utility for custom software installations, or install optional software.
- Installation of Acrobat 4.05.
- The typical installation requires less interaction than previous versions.
- The installer is Web-enabled so you can check the HP Web site for the latest software components and drivers.
- Network connection is integrated so you can install drivers and connect to a network printer in a single process.

In addition to these new features, the common installer continues to offer:

- Automatic-sensing of the Windows operating system and language (Windows 95 and 98, Windows NT 4.0, Windows 2000, and Windows Me only). Though system language is automatically sensed, the installer lets you select from any of the languages on the HP LaserJet 8150 Printing System Installer CD-ROM.
- Full localization and enabling for double-byte fonts.
- The HP LaserJet Uninstaller utility.
- Product registration using the Web and e-mail.

All of the Windows system components are installed by using the HP LaserJet 8150 printing system installer. The installer automatically senses your native language and operating system. It offers selections for each printer model. You can select the type of installation you prefer: typical or custom.

If you have an Internet connection, the installer will sense the connection and provide you with the capability to connect to the HP Web site to download the latest printing system software. The installer compares the versions of the software components on the HP LaserJet 8150 Printing System Installer CD-ROM to those on the HP Web site. If there are newer versions on the HP Web site, the installer downloads them.

CD-ROM browser

In previous versions of the printing system software, you had to locate and run the SETUP.EXE file, which started the installer. For the Microsoft Windows environment (Windows 9*x*, Windows 2000, Windows Me, Windows NT 4.0), the HP LaserJet 8150 Printing System Installer CD-ROM provides an interactive CD-ROM browser that not only lets you install the printer drivers and related components, but also provides access to online product registration, user documentation, a customization utility, Adobe Acrobat Reader software, and optional HP software.

NOTE:	Windows 3.1*x* is not supported by the HP LaserJet 8150 Printing System CD-ROM browser or printing system installer. To install the PCL 6, PCL 5e, or PS printer drivers for Windows 3.1*x* use the Add Printer function in the Windows 3.1*x* Control Panel. The drivers are located on the software CD-ROM under the following filepath: X:\ENGLISH\DRIVERS\WIN3X\, where "X:" represents the letter designating your CD-ROM drive.

Figure 1: Installation CD-ROM browser main screen

The CD-ROM browser offers the following options. The text that follows each option is the same text shown when you put the cursor on the option button.

Install Printer. This wizard guides you through the installation of your HP LaserJet 8150 printing system. Only the necessary software will be installed.

Register Product. Register your HP LaserJet 8150 now to receive free:

- Notification of driver updates
- Technical support updates
- News on emerging technologies

View Documentation. View the HP LaserJet 8150 documentation.

NOTE:	For systems that do not have Adobe Acrobat Reader installed, clicking any of the links to documentation provided in Adobe Acrobat .PDF format opens a dialog box that provides the opportunity to install Adobe Acrobat Reader software from the HP LaserJet 8150 Printing System Installer CD-ROM.

Customization Utility. Create a custom software installer for the HP LaserJet 8150 that can be copied to other media like floppy disks, a local hard drive, or a network drive.

Optional Software. To increase productivity and get the most out of your HP LaserJet 8150 printer, view a list of Optional Software available for installation.

Installable components

This section provides information about the various installable components available either on the HP LaserJet 8150 Printing System Installer CD-ROM or the HP Web site.

Printer drivers

The printing system for the HP LaserJet 8150 series printers includes the following printer drivers:

PCL 6 and PCL 5e drivers

These drivers feature a graphical user interface that has a common look and feel. They provide access to the printer's paper-handling and print-quality features.

The PCL 6 and PCL 5e drivers included on the HP LaserJet 8150 Printing System Installer CD-ROM provide new functionality with features such as Job Retention (hard disk and RAM), Edge-to-Edge printing, and Print All Text As Black. For more information about features new to the HP LaserJet 8150, see "New features." For specific information about using PCL 6 and PCL 5e driver features, see "PCL 6 and PCL 5e driver features."

Windows 3.1*x* driver versions

NOTE:	PCL 6 and PCL 5e support for Windows 3.1*x* is provided by using the HP LaserJet 8100 printer drivers. These drivers are available on the HP LaserJet 8150 Printing System Installer CD-ROM. PostScript support is provided by an HP LaserJet 8150 PPD.

- HP LaserJet 8150 PCL 6, version 3.3.0.0
- HP LaserJet 8150 PCL 5e, version 1.30.5.0
- Microsoft PostScript emulation driver version 3.58

Windows 95, Windows 98, and Windows Me driver versions

- HP LaserJet 8150 PCL 6 version 4.3.2.54
- HP LaserJet 8150 PCL 5e version 4.3.2.54
- Microsoft PostScript emulation driver version. 4.58
- PostScript printer description (PPD) version 1.0.0.0

Windows NT 4.0 driver versions

- HP LaserJet 8150 PCL 6 version 4.3.2.54
- HP LaserJet 8150 PCL 5e version 4.3.2.54
- Microsoft PostScript emulation driver version 4.58
- PostScript PPD version 1.0.0.0

Windows 2000 driver versions

- HP LaserJet 8150 PCL 6 version 4.3.2.76
- HP LaserJet 8150 PCL 5e version 4.3.2.76
- Microsoft PostScript emulation driver version. 4.5
- PostScript PPD version 1.0.0.0

Macintosh and Macintosh-compatible system driver versions

HP LaserJet PostScript Emulation Printer Driver
(Macintosh System 7.5.3)

- Includes PPDs that the driver and printing system software use to determine the features and PostScript commands supported in the printer.
- This driver is bidirectional through AppleTalk.

AutoCAD driver versions

The HP LaserJet 8150 Printing System Installer CD-ROM contains printer drivers to support AutoCAD™ in the disk operating system (DOS), 16-bit Windows, and 32-bit Windows operating environments. The driver version numbers are the same for each of the three operating environments.

AutoCAD Versions Supported	Driver Version
10, 11, 12: For DOS 13 and 14: For Windows	4.1b

Additional driver availability

Additional drivers are available from your Hewlett-Packard distributor or from the http://www.hp.com Web site. These drivers are:

- IBM OS/2 drivers
- UNIX/HP-UX/LINUX driver sample scripts

Other software components

The HP LaserJet 8150 Printing System (version 1.0.0.0) includes the following other installable components. Following the table are descriptions of each component.

Windows Components	Version
Driver Autoconfiguration	5.0.41.2
Job Status and Alerts	1.0.0.31
Online User's Guide	1.0
Ready Reference Guide	Not applicable
HP LaserJet 8150 Printer Release Notes	Not applicable
Adobe Acrobat Reader	4.05
HP LaserJet 8150 Uninstaller	1.0.0.0
HP WebReg	1.0
HP Resource Manager	1.2

Macintosh Components	Version
HP LaserJet PPDs	Not applicable
HP LaserJet Utility	3.5.3
Installation notes	Not applicable
ColorSync profiles	Not applicable
Online Help	Not applicable
HP Auto Setup Utility	1.0
Screen fonts	Not applicable

Windows component descriptions

Driver Autoconfiguration. The HP LaserJet 8150 PCL 6 and PCL 5e drivers for Windows feature bidirectional communication technology that, in supported network environments, provides automatic discovery and driver configuration for printer accessories at the time of installation or later, if needed. The HP LaserJet 8150 installer senses whether or not the installation environment supports bidirectional communication. If the environment does support bidirectional communication, the installer presents Driver Autoconfiguration as an installable component for a typical installation and an optional installable component for a custom installation. The Driver Autoconfiguration component installs the bidirectional communication software. If the installation environment does not support bidirectional communication, the Driver Autoconfiguration option is not displayed during installation. However, installed drivers will configure automatically based on the HP LaserJet 8150 bundle selected during installation of the printing system software.

For detailed information about using Driver Autoconfiguration, see “Driver Autoconfiguration.”

NOTE:	USB and parallel connections do not support bidirectional communication. Therefore, Driver Autoconfiguration is not available with those types of connections.

Job Status and Alerts. The Job Status and Alerts provides printer and job status information such as printing history, job progress, toner and paper levels, consumable and supplies reorder information, and a simulated view of the printer control panel. This utility offers several options for configuring pop-up windows to view the status of the printer and individual print jobs. For more detailed information about how to use this feature, see ”Job Status and Alerts.”

Online User's Guide. The *HP LaserJet 8150 User Guide* is supplied in Adobe Acrobat printer description file (PDF) format for viewing on your computer. You can either view the guide from the HP LaserJet 8150 Printing System Installer CD-ROM browser or install the guide on your system. To install the online user's guide, select **Custom Installation** and then select the appropriate check box. You can also choose to install the guide later. The online user's guide is installed in the **Manuals** folder on the target system. To view the guide, you must have Adobe Acrobat Reader or another PDF reader installed. When you click on **Online User’s Guide** from the HP LaserJet 8150 CD-ROM browser, the installer scans the system for an installed PDF reader. If the installer cannot find a reader, the installer presents the option to install the Adobe Acrobat Reader.

Ready Reference Guide. The *HP LaserJet 8150 Ready Reference Guide* contains information about most printer operating and troubleshooting conditions. Like the user guide, it is supplied in PDF format. You can either view the guide from the browser of the HP LaserJet 8150 Printing System Installer or install the guide on your system. To install the ready reference guide, select **Custom Installation** and then select the appropriate check box. You can also choose to install the guide later. The ready reference guide is installed in the **Manuals** folder on the target system. To view the ready reference guide, you must have Adobe Acrobat Reader or another PDF reader installed. When you click on **Ready Reference Guide** from the HP LaserJet 8150 CD-ROM browser, the installer scans the system for an installed PDF reader. If the installer cannot find a reader, the installer presents the option to install the Adobe Acrobat Reader.

HP LaserJet 8150 Printer Release Notes. This text file is available on the HP LaserJet 8150 Printing System Installer CD-ROM. The printer release notes contain important information about printer features, instructions for installing the printing system software, and technical assistance. You can either view the file from the HP LaserJet 8150 Printing System Installer CD-ROM browser or install it on your system. To install the HP LaserJet 8150 Printer Release Notes, select **Custom Installation** and then select the appropriate check box. You can also choose to install the file later. The HP LaserJet 8150 Printer Release Notes are installed in the **Manuals** folder on the target system.

NOTE:	Adobe Acrobat 3.01 is not supported on Asian systems.

Adobe Acrobat Reader. The HP LaserJet 8150 Printing System Installer CD-ROM includes Adobe Acrobat Reader version 4.05 for viewing online documentation. When you click on any of the documentation links in the HP LaserJet 8150 Printing System Installer CD-ROM, the installer scans the system for an installed PDF reader. If the installer cannot find a reader, the installer presents the option to install the Adobe Acrobat Reader.

HP LaserJet 8150 Uninstaller. After you have successfully installed the printing system software, the uninstaller lets you select and remove any, or all of the printing system software components. To uninstall one or more software components, select the **HP LaserJet 8150 Uninstaller** icon from the **HP LaserJet 8150** program group.

NOTE:	The uninstaller easily and safely uninstalls printing system components and their related files without affecting other system components or shared system files. You should not remove printer files manually (without using the uninstaller). Doing so can affect the integrity of your system.

HP WebReg. This component lets you register your HP LaserJet 8150 printer on the HP Web site or through e-mail. After a successful installation of the software, the installer prompts you to ask if you want to register your HP LaserJet 8150 printer. Also, you can access HP WebReg from the HP LaserJet 8150 Printing System Installer CD-ROM browser by clicking **Register Product**. You can choose to complete the online registration at that time or later. If you want to register your printer later, select **WebReg** from the **HP LaserJet 8150** program group when you decide to complete your registration.

HP Resource Manager. This software utility lets you manage fonts, forms, and macros on the hard disk, RAM disk, or optional flash dual inline memory modules (DIMMs). The utility is also used for updating digital copy firmware and embedded Web server firmware. To install this software program, go to the main menu of the HP LaserJet 8150 Printing System Installer CD-ROM browser, click **Optional Software**, and then click **HP Resource Manager**.

HP Resource Manager is not localized for all languages. If the HP Resource Manager directory is not found under your language of choice, it is not available for that language.

Macintosh component descriptions

HP LaserJet PPDs. These PostScript printer definition files for HP LaserJet printers are installed to the Printer Descriptions folder, which is in the Extensions folder within the System folder.

HP LaserJet Utility. This Hewlett-Packard printer utility is installed to the **HP LaserJet** folder of Macintosh OS 8 and newer Macintosh systems. It provides support for PostScript and PCL printers.

Installation notes. This text file contains important information about printer features, instructions for installing the printing system software, and technical assistance.

ColorSync profiles. These text files contain color-matching information for the Macintosh system and HP color LaserJet printers.

Online Help. This HTML-based Help system replaces the Apple Guide Help system provided with earlier HP printers. The Help system can be viewed through a browser or in the **Mac OS Help Center**.

HP Auto Setup Utility. This utility is installed to the Startup Items folder of Macintosh OS 7 and newer Macintosh systems. It provides assistance to set up a new printer, then moves itself to the **Trash**.

Screen fonts. These screen fonts are available only for Macintosh computers and Macintosh compatibles. The screen fonts match your printer fonts, allowing you to see on screen how your printed page will look.

Windows installation

This section provides information about the installation dialog box sequence for installing the HP LaserJet 8150 printing system software in Microsoft Windows environments. You can choose to install the software by using either a typical installation or a custom installation.

Typical Installation dialog box sequence

The typical installation includes the following components:

- HP LaserJet 8150 PCL 6 driver.
- Screen fonts.
- Driver Autoconfiguration (in environments that support bidirectional communication). This option will not be displayed if the selected connection type is **Connected to the printer**.

NOTE:	The dialog boxes shown here appear in the Windows NT 4.0 installation sequence. The order and appearance of dialog boxes may vary among operating systems.

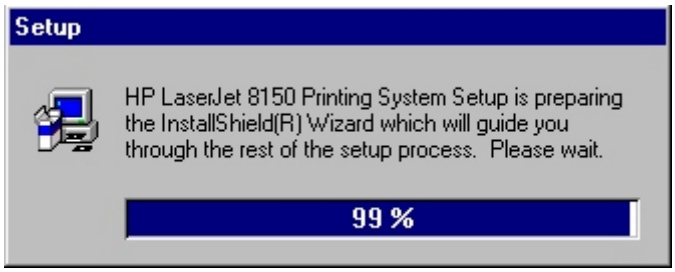
When you select the **Install Printer** option from the HP LaserJet 8150 Printing System Installer CD-ROM browser, the **Choose Setup Language** dialog box appears.

Figure 2: Choose setup language dialog box

NOTE: The Choose Setup Language dialog box only lists the languages available on the particular HP LaserJet 8150 Printing System Installer CD-ROM you are browsing.

Title of Dialog box	Text in Dialog box	User Options and Descriptions
Choose Setup Language	Select the language for this installation from the choices below: [Pull-down menu lists available languages for installation.] **OK** [button] **Cancel** [button]	The installer automatically detects your computer system's language and presents this choice as the default. You can select another language available on the CD-ROM by clicking the down arrow of the pull-down menu. Click **OK** to initiate the printing system setup. Click **Cancel** to go to the **Exit Setup** dialog box.

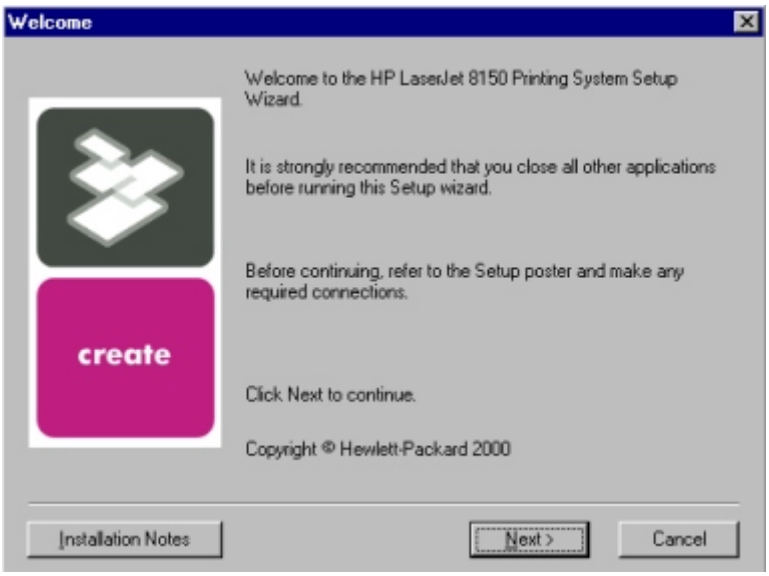
Figure 3: Setup dialog box



NOTE: While the Setup dialog box is displayed, the installer is decompressing files into the system's Temp directory. The elapsed time to complete this action depends on the performance of the system.

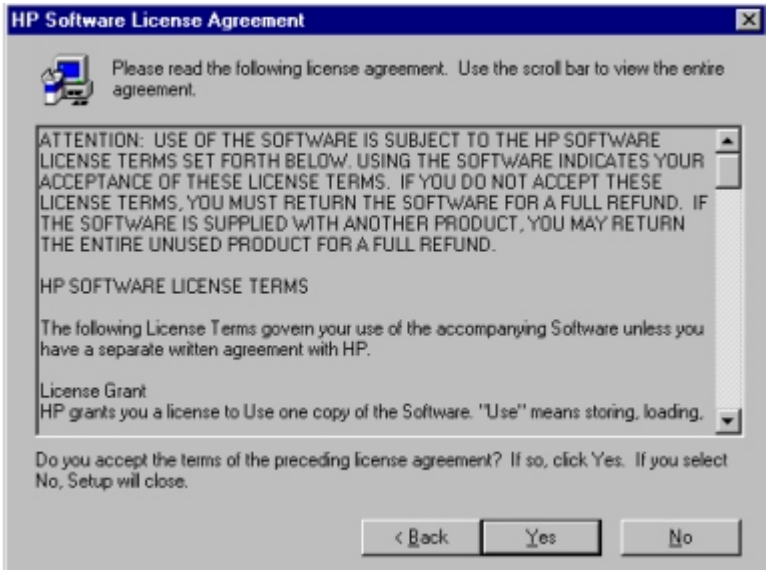
Title of Dialog box	Text in Dialog box	User Options and Descriptions
Setup	HP LaserJet 8150 Printing System Setup is preparing the InstallShield® Wizard which will guide you through the rest of the setup process. Please wait.	No user options. This is an information-only dialog box.

Figure 4: Welcome dialog box



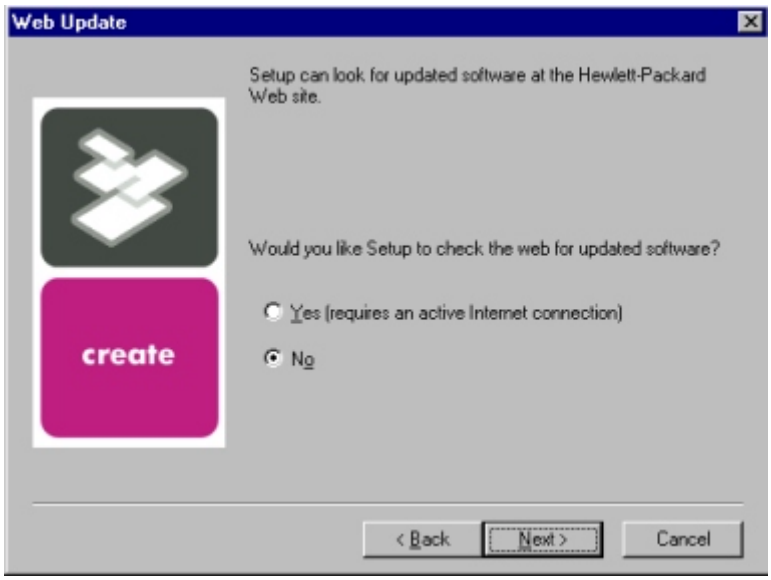
Title of Dialog box	Text in Dialog box	User Options and Descriptions
Welcome	Welcome to the HP LaserJet 8150 Printing System Setup Wizard. It is strongly recommend that you close all other applications before running this Setup wizard. Before continuing, refer to the Setup poster and make any required connections. Click **Next** to continue. Copyright Hewlett-Packard 2000	**Next** takes you to the **HP Software License Agreement** dialog box. Click **Installation Notes** to open the file READ8150.WRI. Click **Cancel** to go to the **Exit Setup** dialog box.

Figure 5: HP software license agreement dialog box



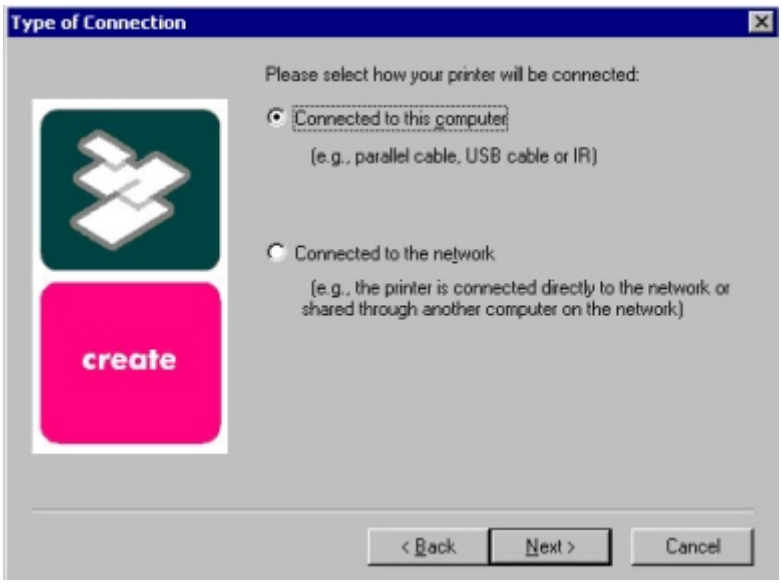
Title of Dialog box	**Text in Dialog box**	**User Options and Descriptions**
HP Software License Agreement	Please read the following license agreement. Use the scroll bar to view the entire agreement. [Scrolling fields with text of license agreement] Do you accept the terms of the preceding license agreement? If so, click **Yes**. If you select **No**, Setup will close.	**Yes** takes you to the **Type of Connection** dialog box. **Back** returns you to the **Welcome** dialog box. **No** takes you to the **Exit Setup** dialog box.

Figure 6: Web Update dialog box



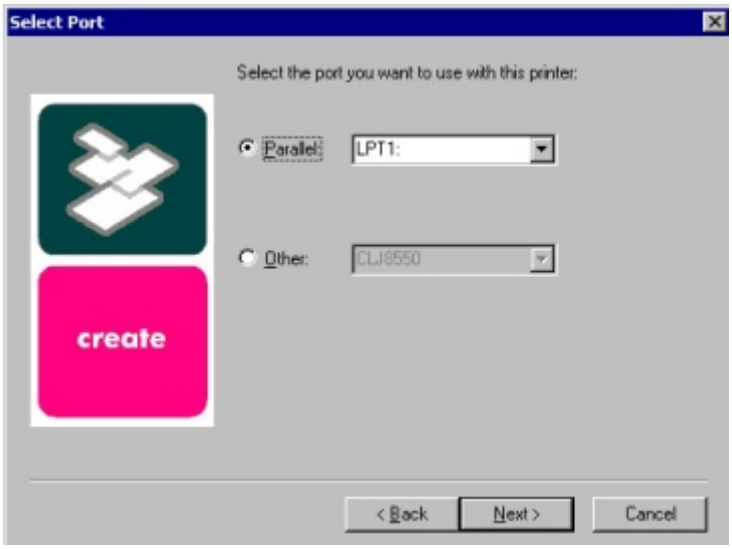
Title of Dialog box	Text in Dialog box	User Options and Descriptions
Web Update (Conditional)	Setup can look for updated software at the Hewlett-Packard Web site. Would you like Setup to check the Web for updated software? **Yes** (requires an active Internet connection) [radio button] **No** [radio button]	This is a conditional dialog box. It appears only if the Setup program determines there may be an Internet connection available. If **No** is selected, **Next** takes you to the **Type of Connection** dialog box. This is the default option. If **Yes** is selected, clicking **Next** starts the Web Update. Details of the Internet installation are not covered in this document. Web Update requires Internet Explorer 4.0 or higher. **Back** returns you to the **License Agreement** dialog box. **Cancel** takes you to the **Exit Setup** dialog box.

Figure 7: Type of connection dialog box



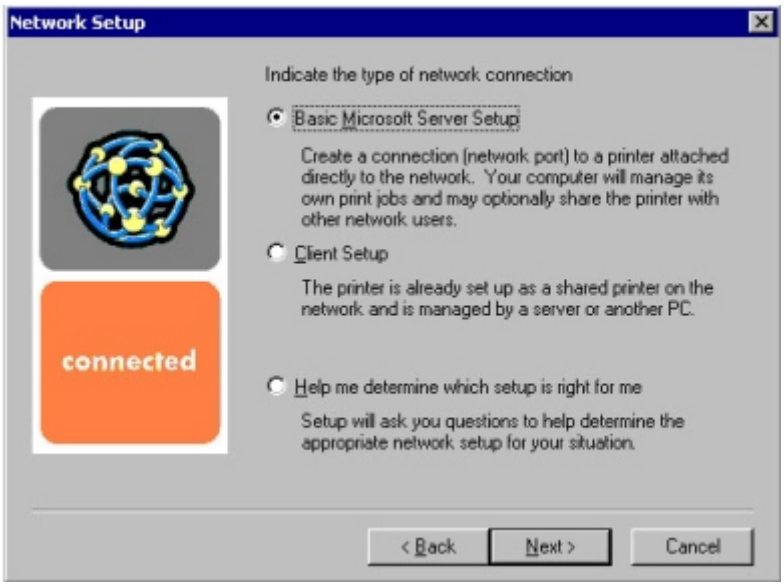
Title of Dialog box	Text in Dialog box	User Options and Descriptions
Type of Connection	Please select how your printer will be connected: **Connected to this computer** (e.g., parallel cable, USB cable, or IR) [radio button] **Connected to the network** (e.g., the printer is connected directly to the network or shared through another computer on the network) [radio button]	If **Connected to this computer** (a "direct connection") is selected, **Next** takes you to the **Select Port** dialog box. This is the default option. If **Connected to the network** is selected, **Next** takes you to the **Network Setup** dialog box. **Back** returns you to the **License Agreement** dialog box. **Cancel** takes you to the **Exit Setup** dialog box.

Figure 8: Select port dialog box (for direct connections)



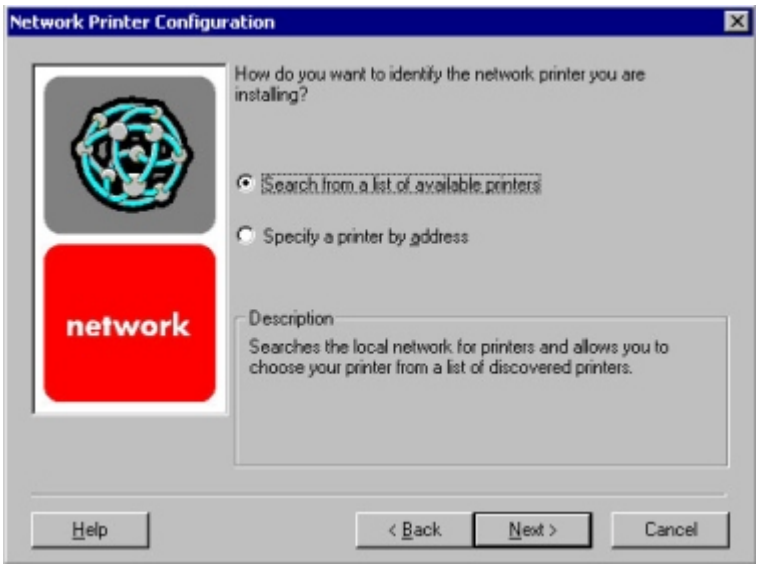
Title of Dialog box	Text in Dialog box	User Options and Descriptions
Select Port (If **Connected to this computer** was selected in the **Type of Connection** dialog box)	Select the Port you want to use with this printer: **Parallel** [radio button] [Default. When selected, a pull-down list of parallel ports is available.] **Other** [radio button] [When selected, a pull-down list of other port types is available.]	In either case, **Next** takes you to the **Printer Model** dialog box. **Back** returns you to the **Type of Connection** dialog box. **Cancel** takes you to the **Exit Setup** dialog box.

Figure 9: Network setup dialog box (for network connections)



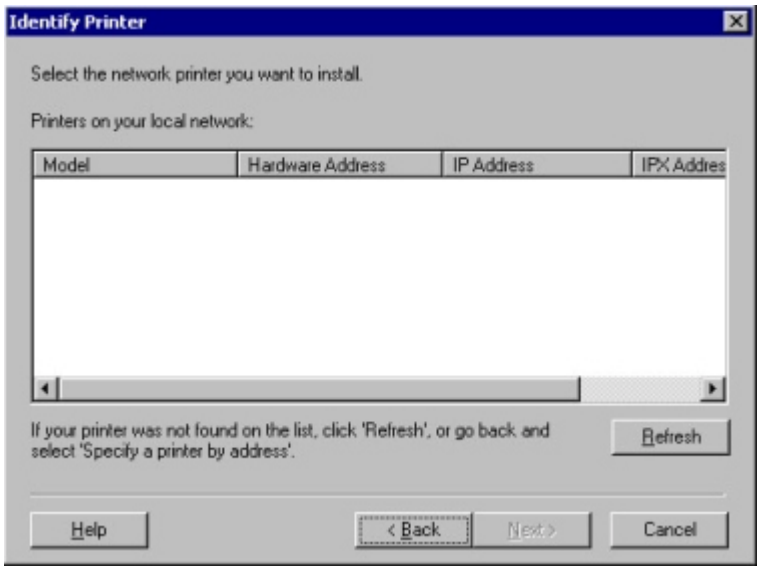
Title of Dialog box	Text in Dialog box	User Options and Descriptions
Network Setup [If Connected to the network was selected in the **Type of Connection** dialog box.]	Indicate the type of network connection **Basic Microsoft Server Setup** Create a connection (network port) to a printer attached directly to the network. Your computer will manage its own print jobs and may optionally share the printer with other network users. [radio button] **Client Setup** The printer is already set up as a shared printer on the network and is managed by a server or another PC. [radio button] **Help me determine which setup is right for me** Setup will ask you questions to help you determine the appropriate network setup for your situation. [radio button]	**Next** takes you to the **Network Printer Configuration** dialog box. If you choose the **Client Setup** option, **Next** takes you to the **Specify Network Path** dialog box, and then to the **Installation Type** dialog box. If the **Help me** option is chosen, **Next** initiates a series of question dialog boxes that help you determine the best connection type option to follow. This series begins with the **Cable Type Selection** dialog box. **Back** returns you to the **Type of Connection** dialog box (6). **Cancel** takes you to the **Exit Setup** dialog box.

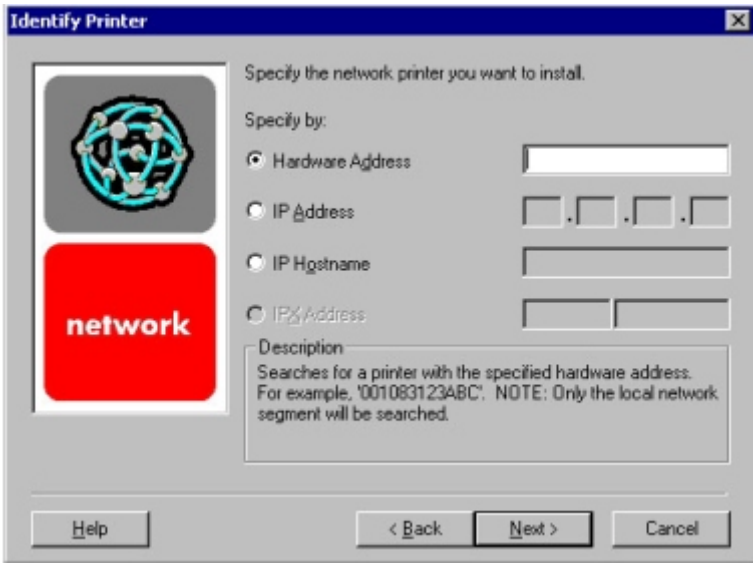
Figure 10: Network printer configuration dialog box



Title of Dialog box	Text in Dialog box	User Options and Descriptions
Network Printer Configuration	How do you want to identify the network printer you are installing? **Search from a list of available printers** [radio button] [Description] Searches the local network for printers and allows you to choose your printer from a list of discovered printers. **Specify a printer by address** [radio button] [Description] Allows you to specify your printer by entering one of the following attributes: Hardware Address, IP Address, IP Hostname, or IPX Address. **Description** [Conditional text]	If you select **Search from a list of available printers**, **Next** takes you to the **Identify Printer** dialog box. If you select **Specify a printer by address**, **Next** takes you to the **Identify Printer** dialog box. **Back** returns you to the **Network Setup** dialog box. **Cancel** takes you to the **Exit Setup** dialog box.

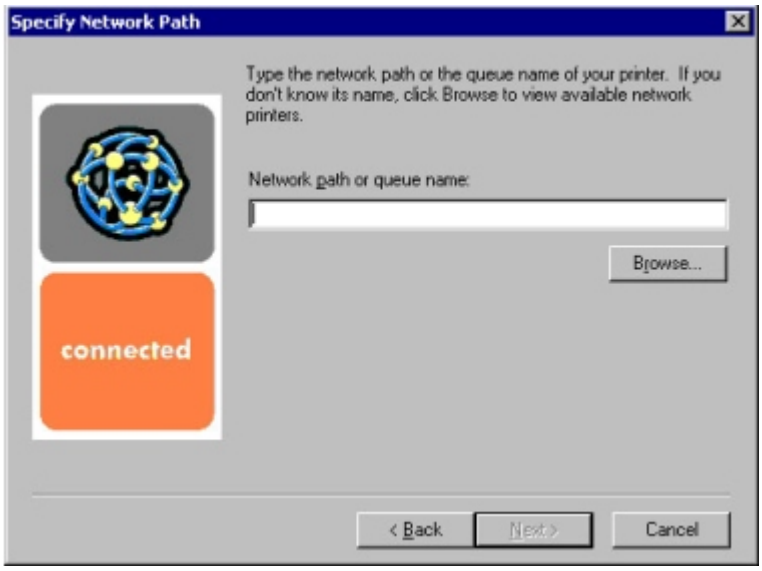
Figure 11: Identify printer dialog boxes





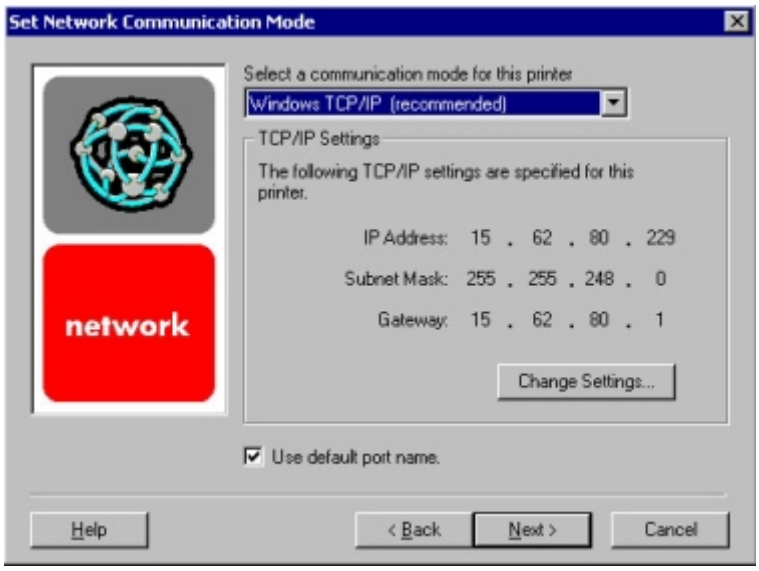
Title of Dialog box	Text in Dialog box	User Options and Descriptions
Identify Printer	Select the network printer you want to install. Printers on your local network: [List, with attributes of Hardware Address, IP Address, and IPX Address listed, if available.] If your printer is not found on the list, click 'Refresh', or go back and select 'Specify a printer by address.' OR Specify the network printer you want to install. Specify by: **Hardware Address** [radio button] [text field] **IP Address** [radio button} [text fields] **IP Hostname** [radio button] [text field] **IPX Address** [radio button} [text fields] **Description** [Conditional text]	If you identify the printer by selecting from the list, and the HP LaserJet 8150 appears in the list and is selected, **Next** takes you to the **Set Network Communication Mode** dialog box. If the HP LaserJet 8150 is not found on the network, click **Refresh** or go back to the **Network Printer Configuration** dialog box (9) to specify the device by address. **Refresh** updates the list of network printers. If you identify the printer by specifying a specific network address, **Next** takes you to the **Set Network Communication Mode** dialog box. **Back** returns you to the **Network Printer Configuration** dialog box. **Cancel** takes you to the **Exit Setup** dialog box.

Figure 12: Specify network path dialog box



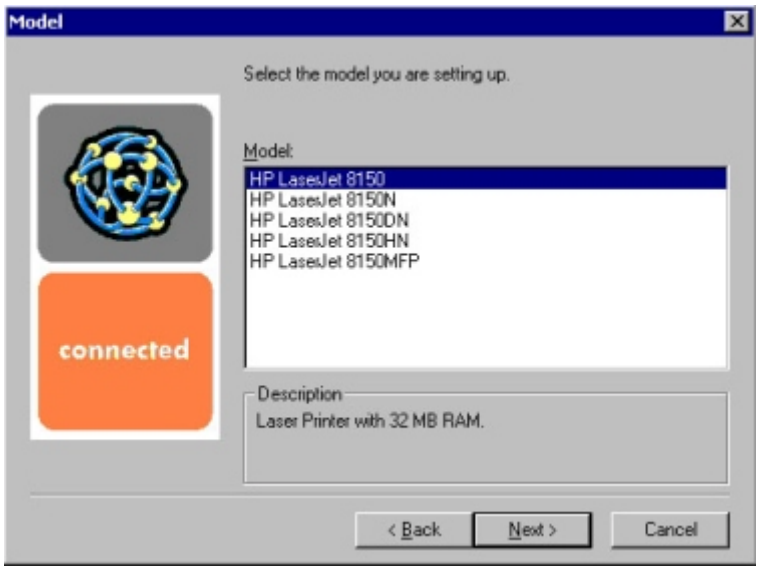
Title of Dialog box	Text in Dialog box	User Options and Descriptions
Specify Network Path	Type the network path or the queue name of your printer. If you do not know its name, click **Browse** to view the available network printers. **Network path or queue name**: [text field] **Browse** ...[button]	If a network path or queue name is entered, **Next** takes you to the **Cable Type Selection** dialog box. **NOTE:** If you reached this dialog box from the **Connected to Selection** dialog box, **Next** takes you to the **Installation Type** dialog box. Click **Browse** to bring up a list of devices available on the network. **Back** returns you to the **Network Setup** dialog box. **Cancel** takes you to the **Exit Setup** dialog box.

Figure 13: Set network communication mode dialog box



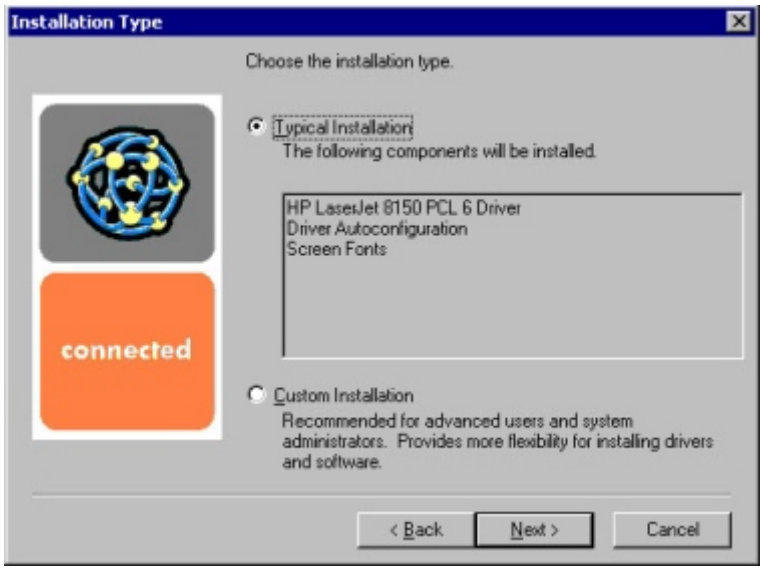
Title of Dialog box	Text in Dialog box	User Options and Descriptions
Set Network Communication Mode	**Select a communication mode for this printer** [dropdown menu: Windows TCP/IP (recommended) other modes listed] **TCP/IP Settings** [Conditional fields for entering TCP/IP or other address information] **Use default port name** [check box]	Select a communication mode and enter the appropriate address information. After you have specified a communications mode, **Next** takes you to the **Printer Model** dialog box. **Back** returns you to the **Identify Printer** dialog box. **Cancel** takes you to the **Exit Setup** dialog box.

Figure 14: Printer model dialog box



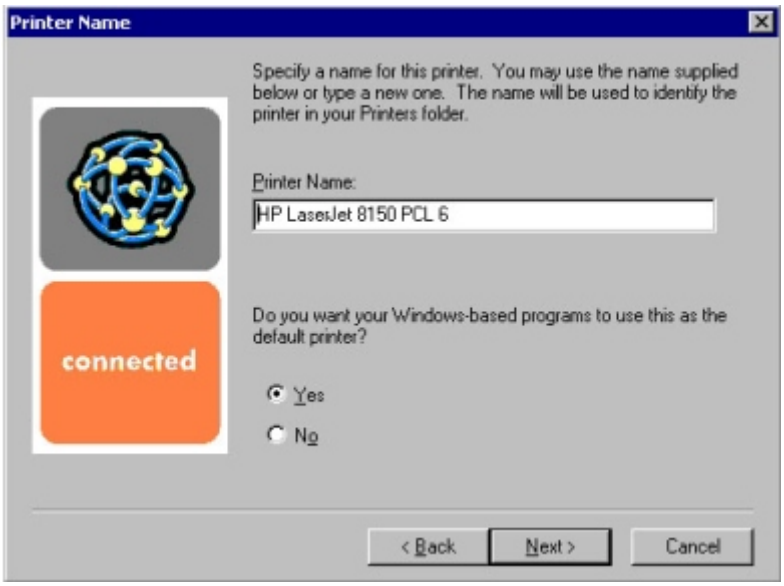
Title of Dialog box	Text in Dialog box	User Options and Descriptions
Model	Select the model you are setting up. **Model** [List of HP LaserJet 8150 models] **Description** [Conditional text, depending on which model is chosen in the list]	**Next** takes you to the **Installation Type** dialog box. **Back** returns you to the **Select Port** dialog box when performing a direct connection installation, or to the **Set Network Communication Mode** dialog box when performing a network installation. **Cancel** takes you to the **Exit Setup** dialog box.

Figure 15: Installation type dialog box



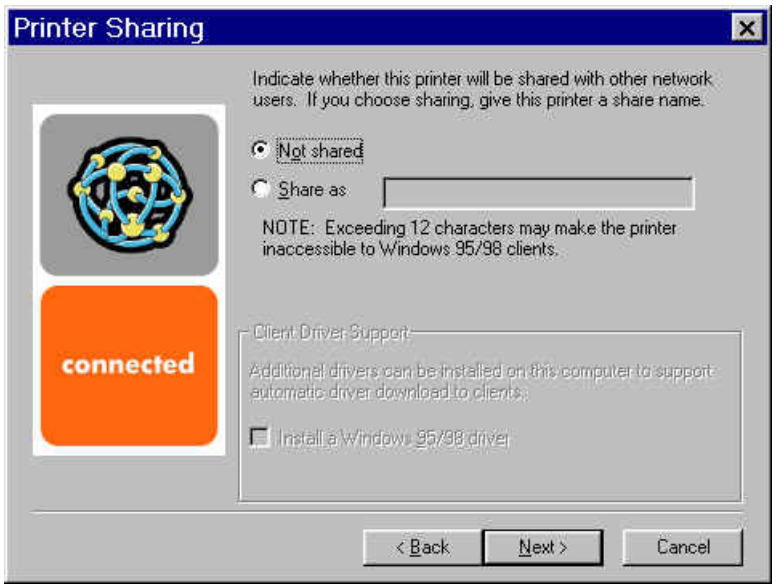
Title of Dialog box	Text in Dialog box	User Options and Descriptions
Installation Type	Choose the installation type. **Typical Installation** [radio button] The following components will be installed. HP LaserJet 8150 PCL 6 Driver Driver Autoconfiguration (if connecting to a network port) Screen Fonts **Custom Installation** [radio button] Recommended for advanced users and system administrators. Provides more flexibility for installing drivers and software.	If **Typical Installation** is selected, **Next** takes you to the **Printer Name** dialog box. If **Custom Installation** is selected, **Next** takes you to the **Components** dialog box. **Back** returns you to the **Printer Model** dialog box. **Cancel** takes you to the **Exit Setup** dialog box. **NOTE:** For direct connection installations, Driver Autoconfiguration is not an available option.

Figure 16: Printer name dialog box



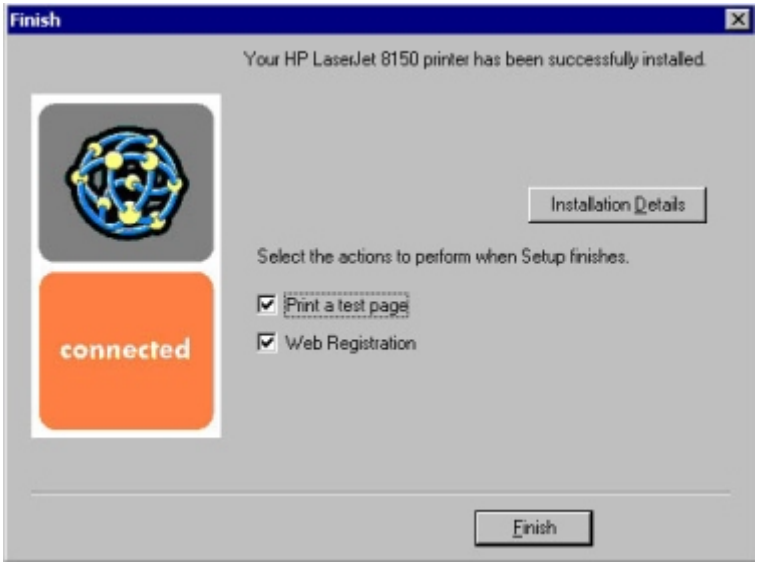
Title of Dialog box	Text in Dialog box	User Options and Descriptions
Printer Name	Specify a name for this printer. You may use the name supplied below or type a new one. The name will be used to identify the printer in your Printers folder. **Printer Name**: [text entry field] Do you want your Windows-based programs to use this as the default printer? **Yes** [radio button] **No** [radio button]	**Next** takes you to the **Printer Sharing** dialog box. The default printer name in the text field is HP LaserJet 8150 PCL 6. **Back** returns you to the **Installation Type** dialog box. **Cancel** takes you to the **Exit Setup** dialog box.

Figure 17: Printer sharing dialog box



Title of Dialog box	Text in Dialog box	User Options and Descriptions
Printer Sharing	Indicate whether this printer will be shared with other network users. If you choose sharing, give the printer a share name. **Not shared** [radio button] **Share as** [text entry field] NOTE: Exceeding 12 characters may make the printer inaccessible to Windows 95/98 clients. (Windows Me is not displayed but is supported.) **Client Driver Support** Additional drivers can be installed on this computer to support automated driver download to clients. **Install a Windows 95/98 driver** [check box]	**Next** starts the file copy process. **Back** returns you to the **Printer Name** dialog box. **Cancel** takes you to the **Exit Setup** dialog box.

Figure 18: Finish dialog box



Title of Dialog box	Text in Dialog box	User Options and Descriptions
Finish	Your HP LaserJet 8150 printer has been successfully installed. **Installation Details** [button] Select the actions to perform when Setup finishes. **Print a test page** [check box] **Web Registration** [check box]	**Finish** completes the installation process and initiates test-page printing and Web-page registration if those options are selected. **Installation Details**: click this button to display a modal dialog box that shows installation details. **NOTE:** If a reboot is required, the **Print a test page** and **Web Registration** functions will occur after the reboot.

Figure 19: Exit setup dialog box

Title of Dialog box	Text in Dialog box	User Options and Descriptions
Exit Setup [when **Cancel** is selected]	Setup is not complete. If you quit the Setup program now, the program will not be installed. You may run the Setup program at a later time to complete the installation. To continue installing the program, click **Resume**. To quit the Setup program, click **Exit Setup**.	**Exit Setup** quits the Installer program. **Resume** takes you to the dialog box from which you most recently canceled.

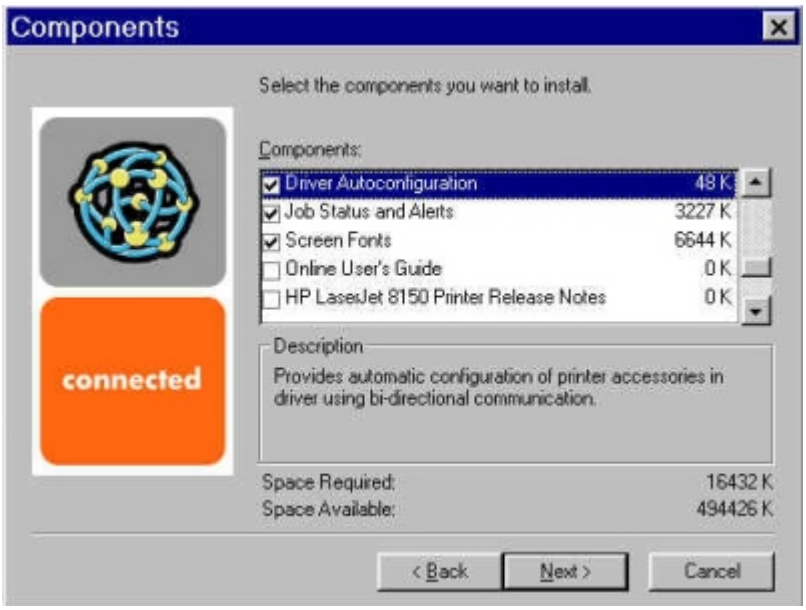
Custom installation

The custom installation gives you the option of installing the following components:

- HP LaserJet 8150 PCL 6 driver
- HP LaserJet 8150 PCL 5e driver
- HP LaserJet 8150 PostScript driver
- Driver Autoconfiguration
- Job Status and Alerts
- Screen fonts
- Online User's Guide
- HP LaserJet 8150 Printer Release Notes
- Ready Reference Guide

NOTE:	Windows NT 4.0 and Windows 2000 running terminal server do not support the **Job Status and Alerts** option.

Figure 20: Custom installation component selection dialog box



Title of Dialog box	Text in Dialog box	User Options and Descriptions
Components	Select the components you want to install. Components: **Description** [Conditional text, according to the item currently highlighted in the list] **Space Required** [Specifies disk space required to install components currently selected in list] **Space Available** [Specifies disk space available on disk drive specified in **Choose Destination Location** dialog box (00)]	**Next** takes you to the **Printer Name** dialog box. **Back** returns you to the **Installation Type** dialog box. **Cancel** takes you to the **Exit Setup** dialog box. **NOTE:** The Custom Installation automatically selects the options available in the typical installation. You can also select from among the following components: PCL 5e driver PostScript (PS) driver Job Status and Alerts Driver Autoconfiguration Online User's Guide Ready Reference Guide Printer release notes.

Macintosh (Mac OS) installation

This section provides information about the various installation dialog box sequences for the Macintosh operating system.

Main Install dialog box sequence

This section provides information about the Macintosh installation dialog box sequence for the Easy Install (the typical installation option).

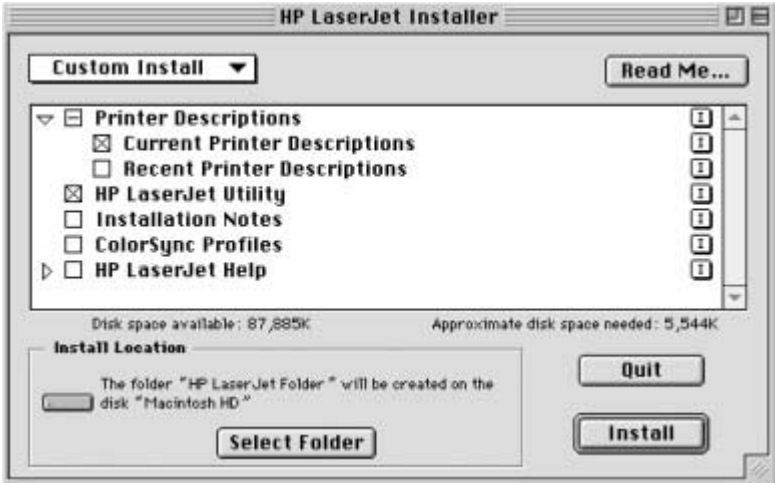
Figure 21: Installer splash screen dialog box

Title of Dialog box	Text in Dialog box	User Options and Descriptions
Splash screen [This title does not appear in the dialog box.]	HP LaserJet for Macintosh **Continue ...** [button}	Click **Continue** to invoke the HP LaserJet Installer dialog box.

Figure 22: HP LaserJet installer dialog box (Easy Install)

Title of Dialog box	Text in Dialog box	User Options and Descriptions
HP LaserJet Installer	**Easy Install** [pull-down menu] Click the Install button to install: • Printer Descriptions • HP LaserJet Utility • Installation Notes • ColorSync Profiles **Disk space available** [conditional] **Approximate disk space needed** [conditional] The folder "HP LaserJet Folder" will be created on the disk "Macintosh HD" **Select Folder** [button] **Quit** [button] **Install** [button] (default option)	If you want to install the files in a location other than the default “Macintosh HD,” click **Select Folder** to specify a location. You can also choose a Custom installation option from the pull-down menu at upper left. Click the **Read Me** button to open the Installer readme file. Click the **Install** button to start the installation on the selected disk. Click the **Quit** button to quit the Installer without making changes to the system.

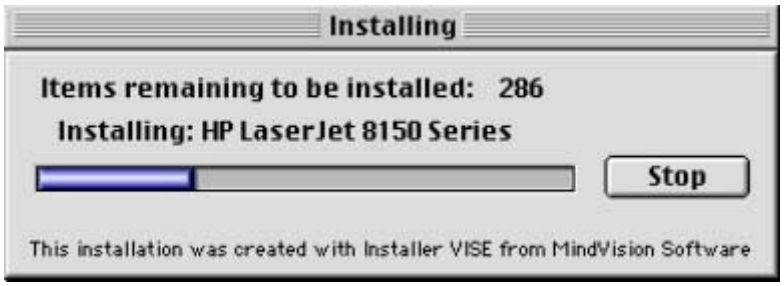
Figure 23: HP LaserJet installer dialog box (Custom Install)



Title of Dialog box	Text in Dialog box	User Options and Descriptions

HP LaserJet Installer	**Custom Install** [pull-down menu]
	• Printer Descriptions
	• Current Printer Descriptions
	• Recent Printer Descriptions
	• HP LaserJet Utility
	• Installation Notes
	• ColorSync Profiles
	• HP LaserJet Help
	  • LaserJet Printer Help
	  • Utility Help
	Disk space available: [conditional]
	Approximate disk space needed: [conditional]
	The HP LaserJet Folder will be created on the disk "Macintosh HD."
	Select Folder [button]
	Quit [button]
	Install [button] [default option]
		Select the install location using the **Select Folder** option (if the desired location is different from "Macintosh HD").
		Select available components to install by using the check boxes in the list.
		Click the **Read Me** button to open the Installer readme file.
		Clicking **Install** starts the installation on the selected disk.
		Click the **Quit** button to quit the Installer without making any changes to the system.

Figure 24: Installation progress dialog box



Title of Dialog box	Text in Dialog box	User Options and Descriptions
Installing	**Items remaining to be installed** [conditional number] **Installing** HP LaserJet 8150 Series **Stop** [button]	Click the **Stop** button to interrupt the install file copy process.

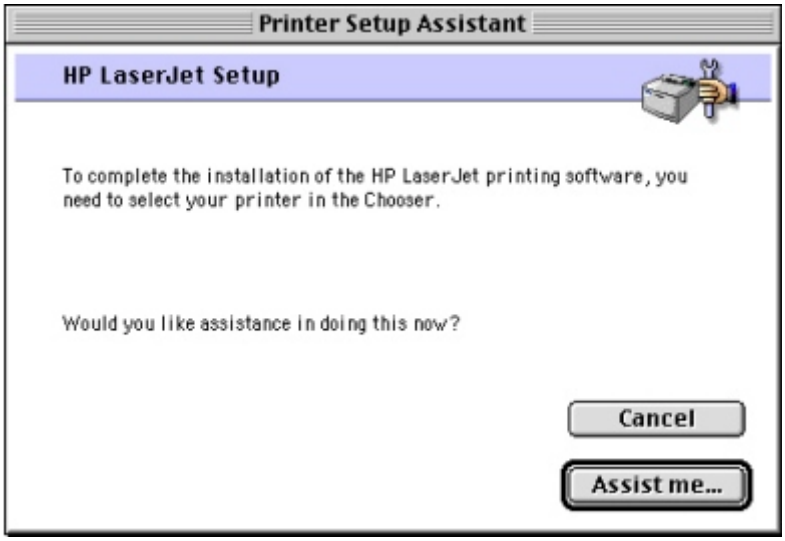
Figure 25: Finish dialog box

Title of Dialog box	Text in Dialog box	User Options and Descriptions
Finish [This title does not appear.]	Installation was successful. If you are finished, click Quit to leave the Installer. If you wish to perform additional installations, click Continue.	Click the **Quit** button to exit the Installer. The Printer Setup Assistant opens. Click the **Continue** button to return to the HP LaserJet Installer.

Printer setup assistant dialog box sequence

This section provides information about the installation dialog box sequence for the Printer Setup Assistant.

Figure 26: Printer Setup Assistant dialog box



Title of Dialog box	Text in Dialog box	User Options and Descriptions
Printer Setup Assistant	HP LaserJet Setup To complete the installation of the HP LaserJet printing software, you need to select your printer in the Chooser. Would you like assistance in doing this now? **Cancel** [button] **Assist me** [button] [default option]	Click the **Assist me** button to start an Apple Guide help sequence. Click the **Cancel** button to close the Printer Setup Assistant.

Figure 27: Apple Guide help sequence

Title of Dialog box	Text in Dialog box	User Options and Descriptions
How do I select my printer?	For instructions, click the right arrow. **Topics** [button] [An eight-panel Apple Guide sequence describes how to gain access to the Macintosh Chooser and how to select and set up the printer.]	This is a standard Mac OS help sequence.

HP LaserJet Screen Fonts Installer dialog box sequence

This section provides information on the installation dialog box sequence for the HP Screen Font Installer.

Figure 28: Screen fonts installer splash screen dialog box

Title of Dialog box	Text in Dialog box	User Options and Descriptions
HP LaserJet Screen Fonts	HP LaserJet Screen Fonts [The phrase "Screen Fonts" is repeated in multiple scripts and languages.] **Continue** [button]	Click the **Continue** button to open the **HP LaserJet Screen Fonts** dialog box.

Figure 29: HP LaserJet screen fonts installer dialog box

Title of Dialog box	Text in Dialog box	User Options and Descriptions
HP LaserJet Screen Fonts	Click the Install button to install: • Screen Fonts Items will be installed on the disk "Apple External HD" **Quit** [button] **Install** [button] (default option}	Click the **Install** button to start the installation. Click the **Quit** button to quit the Installer without making changes to the system.

When you click Install, an installation progress bar dialog box appears. The following table details the contents of that dialog box. (The dialog box appears so briefly that it was impossible to catch it in a screen shot.)

Title of Dialog box	Text in Dialog box	User Options and Descriptions
Installing	Items remaining to be installed: [conditional number] **Stop** [button]	Click the **Stop** button to interrupt the install file copy process.

Figure 30: Finish dialog box

Title of Dialog box	Text in Dialog box	User Options and Descriptions
Finish [This title is not displayed.]	Installation was successful. If you are finished, click Quit to leave the Installer. If you wish to perform additional installations, click Continue.	Click the **Quit** button to exit the Installer. Click the **Continue** button to return to the HP LaserJet Screen Fonts installer.

Additional user documentation

The following documentation is available for viewing from the HP LaserJet 8150 Printing System Installer CD-ROM browser. You can copy the text and PDF files to another location.

HP LaserJet 8150 Series Printer Printing System Late-Breaking Readme

To view this text file from the HP LaserJet 8150 Printing System Installer CD-ROM browser, click **View Documentation**, and then click **Release Notes**. When you have the file open in Notepad, you can click **File** and then click **Save As** to save a copy of the file to another location.

NOTE:	Be careful not to confuse this document with the HP LaserJet 8150 Printer Release Notes. The file name of that file is READ8150.WRI. You can view the release notes from the HP LaserJet 8150 Printing System Installer CD-ROM browser by clicking **View Documentation**, and then clicking **Readme**, or you can install the file on your system by selecting the appropriate check box during a custom installation.

HP JetDirect Administrator's Guide

This guide (part number 5969-6818) is available on the HP LaserJet 8150 Printing System Installer CD-ROM as an Adobe Acrobat .PDF file. You can view the document from the HP LaserJet 8150 Printing System Installer CD-ROM browser by clicking **View Documentation** and then clicking **HP JetDirect Guide**. Also, you can copy the .PDF file from the HP LaserJet 8150 Printing System Installer CD-ROM to another location.

HP 3000-Sheet Stapler/Stacker User Guide

This guide provides instructions for using the 3000-sheet stacker and 3000-sheet stapler/stacker output devices. The guide is available on the HP LaserJet 8150 Printing System Installer CD-ROM as an Adobe Acrobat .PDF file. You can view the document from the HP LaserJet 8150 Printing System Installer CD-ROM browser by selecting **View Documentation** and then clicking **Stacker/Stapler Guide**. Also, you can copy the .PDF file from the HP LaserJet 8150 Printing System Installer CD-ROM to another location.

Customization utility

The **Customization Utility** button lets you create your own customized installation printing system components. To start the utility, select **Customization Utility** from the main menu of the HP LaserJet 8150 Printing System Installer CD-ROM browser. The available options for creating a customized installation are:

- **Copy printer drivers only**. This option lets you copy the HP LaserJet 8150 Windows printer drivers to a selected form of media (disk, CD-ROM, network drive, etc.). You can use the resulting disk set with the Windows **Add Printer** wizard or the Windows 3.1*x* **Create Printer** option to install the printer drivers. The customization utility prompts you to choose:
  - Language
  - Operating system
  - Printer model
  - Drivers to copy
  - Destination path
- **Create customized installer**. This option lets you create an installer customized by any of the following selections:
  - Language
  - Operating system
  - Printer model
  - Printing system components
  - Interactive or silent (unattended) installer
- **Copy entire printing system installer**. This option lets you copy the HP LaserJet 8150 printing system installer to a selected form of high-capacity media such as a network drive. You can select the appropriate languages and operating system of your choice.

Silent installer

The HP LaserJet 8150 Printing System software lets you create a silent installer that runs the SETUP.EXE program without user interaction. This installation method is useful when you want to use the default selections provided by the installer or when you want to run the installation without being prompted. You also have the option of creating a custom disk image containing specific drivers and utilities, allowing users to run the installer without further interaction.

Silent installation can be performed in two ways:

- Customized silent installer
- Command line silent installer

Customized silent installer

This option lets you select the printing system components to include in the silent install. You can select the operating system, language, printer models, drivers, utilities, and documentation to install.

Command line silent install

This method cannot be customized and installs only the printing system components included in the typical installation.

NOTE:	Values that follow equal signs (=) in a command line must not contain intervening spaces.

Method 1: Command line

Type the following at the command line:

<CD-ROM-ROOT>/SETUP/SETUP.EXE /U /PORT=XXXX /PRINTER=N /PD=N

Method 2: SETUP.LST

Use the SETUP.LST file to specify command line arguments to the installer for an unattended installation. You can send command line arguments in one of the following ways:

- Send the command directly to the installer
- Send the command using the SETUP.LST file located in the setup directory, or
- Use a combination of the two

For example, this file contains two options: **/port** and **/printer**. The installer operates as normal because the **/u** option has not been specified. If you use setup **/u** for the installer, it operates in unattended mode and uses the two values specified in the defaults section of the SETUP.LST file. If you use **setup /u /printer=1** for the installer, it operates in unattended mode and chooses HP LaserJet 8150N. (The options specified on the command line override the options specified in the SETUP.LST file.)

The options available (see below) can also include the **/u** option. Using this option key makes the installer always operate as unattended.

The following descriptions explain the available options:

/u. Signals the installer to use the specified port and printer given on the command line (or in this file), and to use all default selections. Installation then proceeds without prompting the user.

/port=xxxx. Used to specify the default port when doing an unattended install. The value specified by **xxxx** should be a valid port and should contain no spaces.

/printer=n. Used to specify the default printer when doing an unattended install. The value specified by n is an integer that references the list of available printers. For example, the following printers are available for the HP LaserJet 8150 printer installation:

0 = HP LaserJet 8150 printer
1 = HP LaserJet 8150N printer
2 = HP LaserJet 8150DN printer
3 = HP LaserJet 8150HN printer
4 = HP LaserJet 8150MFP printer

/pd=n. Used to specify whether the selected printer is the default printer, when you have multiple printers connected to your network. The value specified by n is an integer (that is, 0 or 1). For this argument, entering one sets the selected printer as the default printer. Entering zero (0) or not specifying a value at all sets the printer as a non-default printer.

You can preset these options in the SETUP.LST file located in the root directory of the HP LaserJet 8150 Printing System Installer CD-ROM browser. In the defaults section, add the following syntax:

```
    [Defaults]
Options= /port=<value>  /printer=<number> /pd=<number>
```

Optional software

The HP LaserJet 8150 Printing System Installer CD-ROM browser provides links to install or download the following optional software:

- HP Web JetAdmin
- HP Resource Manager

HP Web JetAdmin

This software program is a printer management tool that allows network administrators to remotely install, configure, troubleshoot, manage, and set passwords for HP JetDirect-connected printers. The HP LaserJet 8150 Printing System Installer CD-ROM browser provides a link to the HP Web site (http://www.hp.com/go/webjetadmin) to download the latest version of the HP Web JetAdmin software. Select Optional Software from the CD-ROM browser, and then select **HP Web JetAdmin**. HP Web JetAdmin is available for the following network operating environments:

- Microsoft Windows 2000
- Microsoft Windows NT 4.0
- HP-UX 10.20 and 11.x
- Sun Solaris 2.5, 2.6, and 7
- Red Hat Linux
- SuSE Linux

HP Resource Manager

This software utility lets you manage fonts, forms, and macros on the hard disk, RAM disk, or optional flash DIMMs. The utility is also used for updating digital copy firmware and embedded Web server firmware. To install this software program, go to the main menu of the HP LaserJet Printing System Installer CD-ROM browser and click **Optional Software**, and then click **HP Resource Manager**.

HP Resource Manager is not localized in all languages. If the **HP Resource Manager** directory is not found under your language of choice, it is not available in that language.

Printer features

New features

The printing system software for the HP LaserJet 8150 series printers includes the following new features:

- Driver Autoconfiguration
- Event log second page
- Include back cover
- Digital sending
- Configuration page copy quality
- Product registration (WebReg)
- Duplex registration
- Edge-to-Edge printing
- Job retention in RAM
- Job Status and Alerts

Driver Autoconfiguration

The HP LaserJet 8150 PCL 6 and PCL 5e drivers for Windows offer a new Driver Autoconfiguration feature. Driver Autoconfiguration works in three ways:

- In environments that do not support bidirectional communication, the driver automatically configures options based on the HP LaserJet 8150 printer bundle selected during the installation of the printing system software. For example, if the HP LaserJet 8150DN is selected, the driver automatically configures the duplexing unit. There is no communication between workstation and printer. Therefore, configuration is based solely on the definition of the printer bundle. Using the same example, if the HP LaserJet 8150DN is selected during installation, the duplexing unit is configured in the driver whether the unit is physically present or not.
- In environments that support bidirectional communication, the workstation communicates with the printer, determines the physical configuration, and configures the driver accordingly.
- If the configuration of the HP LaserJet 8150 printer changes after installation, the driver can be updated with the new configuration automatically in environments that support bidirectional communication. For example, if the base printer model is installed and a duplexing unit is added later, you can automatically configure the duplexing unit in the driver by clicking the **Update Now** button on the driver's **Configure** tab.

The bidirectional communication software necessary for the second and third methods of Driver Autoconfiguration is included in a typical installation when installing a network printer in supported environments. The feature is also a selectable option for a custom installation.

Event log second page

The first page of the event log remains the same as for the HP LaserJet 8100 Series. However, the HP LaserJet 8150 Series printers have an additional event log page that provides details about printer usage. Use the following legend to diagnose and troubleshoot possible usage problems:

L: = number of images printed in low fusing mode
N: = number of images printed in normal fusing mode
H1: = number of images printed in High 1 fusing mode
H2: = number of images printed in High 2 fusing mode
H3: = number of images printed in High 3 fusing mode
E2E: = number of images printed using Edge-to-Edge
TD: = toner density setting at the time this page is printed
FM: = fuser mode setting at the time this page is printed
AJL: = average job length
MJL: = maximum job length
S: = number of images printed in simplex
D: = number of images printed in duplex
TC: = number of toner cartridges used (when configured as new from the front panel)
PP/C: = images printed per toner cartridge (for up to the previous 20 toner cartridges)
PMK: = number of pages per preventive maintenance kit (for up to the last five kits)
PS: = PowerSave setting at the time this page is printed

NOTE: The printer might need to be cleaned more often when using the Edge-to-Edge feature, because excess toner can be deposited on the edge of the paper.

Include back cover

This feature lets you include a blank back cover on a document, or to include a back cover from a different paper source than used in the remainder of the document. You can also select a first page from an alternate paper source.

For more information on using this feature, see "Back Cover."

Digital sending

The HP Digital Sender Module software solution that is included with the HP LaserJet 8150MFP printer and copy module upgrade lets you send to e-mail. Send to e-mail is a solution that is a standard offering for the HP LaserJet MFP product families. The solution lets you scan and send paper documents as an attachment to e-mail at the touch of a button.

Sending to e-mail:

1. Press the **Send** icon on the digital copy module control panel.
2. Complete the **From, To,** and **Subject** fields. Press the button next to each field (for example, **Subject**) to open a touch-screen keyboard in which you can type in your desired entries. Documents can be sent to many recipients with a single scan.
3. Choose either to use the default document settings or to customize other document options (one- or two-sided scanning, paper size, file format, and so forth) by pressing the **Settings** button.
4. Place the document in the automatic document feeder (or on the glass) and press the **Send** icon to begin the send to e-mail process.

The HP LaserJet 8150 Digital Copy Module scans, compresses, and sends the page scans to the Windows NT workstation or server running the HP Digital Sender Module software. The HP Digital Sender Module processes the document and sends it to the e-mail addresses the user specified.

Additional digital sending services can be purchased separately. These additional services are send-to-fax and Windows NT authentication.

Configuration page copy quality

The printer configuration page usually includes the HP logo as a watermark. Because watermarks print in light shades, they often do not appear when documents are photocopied. The HP LaserJet 8150 senses whether or not an HP Digital Copy Module connect card is installed in one of the printer EIO slots. When the HP LaserJet 8150 printer senses an installed HP Digital Copy Module unit, the printer does not print the HP watermark on the configuration page.

Product registration (HP WebReg)

The HP LaserJet 8150 Printing System Installer CD-ROM browser provides two options for registering the HP LaserJet 8150 product:

- Registration through the Internet to the http://www.hp.com Web site
- Registration by e-mail

To gain access to the product registration options, go to the main menu of the HP LaserJet 8150 Printing System Installer CD-ROM browser and click **Register Product**. This starts the HP WebReg utility and opens the following window.

Figure 31: Hewlett-Packard's electronic registration

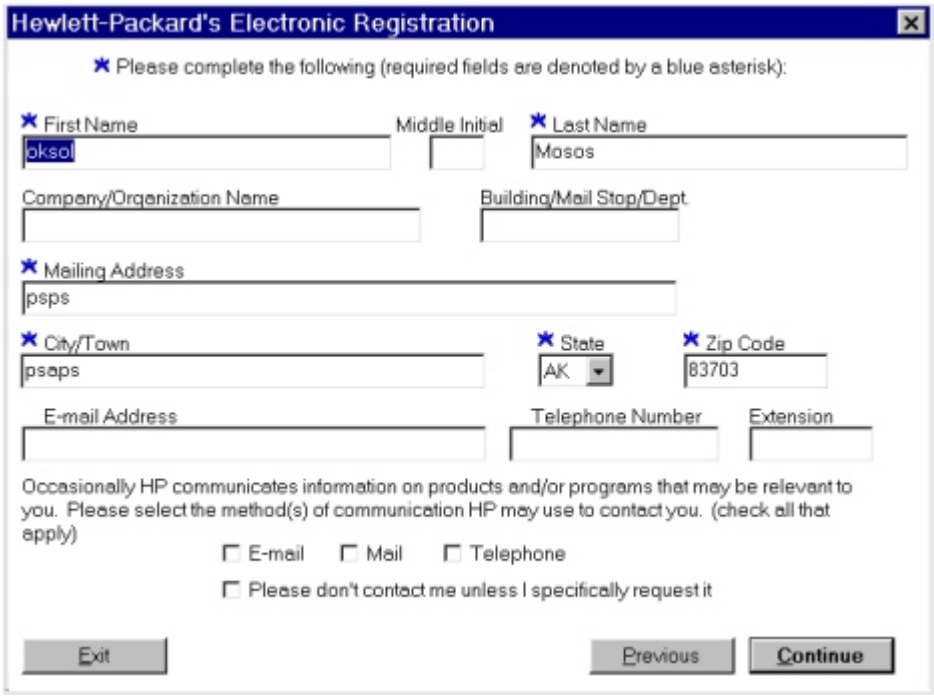
Title of Dialog box	Text in Dialog box	User Options and Descriptions
Hewlett-Packard's Electronic Registration	Welcome to HP's registration. This information is confidential and for HP registration purposes only. This is the fastest and easiest way for you to join our select group of HP owners who register to receive: • Direct-to-you details on: - Ideas and ways to use your new HP printer - Other exciting HP products - News on emerging technologies • Technical support updates	

Title of Dialog box	Text in Dialog box	User Options and Descriptions
	WWW Registration [button] [default option] If you do not have internet access or would rather register via e-mail, please click here to continue with Hewlett-Packard's Electronic Registration. **Electronic Registration** [button] **Exit** [button]	Click the **WWW Registration** button to open the default Web browser and connect to the product registration page on the http://www.hp.com Web site. Click the **Electronic Registration** button to open the **Welcome to Hewlett-Packard's Registration** dialog box. Click the **Exit** button to open the **Exiting Registration!** dialog box.

Figure 32: Welcome to Hewlett-Packard's registration dialog box

Title of Dialog box	**Text in Dialog box**	**User Options and Descriptions**
Welcome to Hewlett-Packard's Registration	Welcome to HP's electronic registration. This information is confidential and for HP registration purposes only. Please select the country where you are located. [Drop-down menu] Please continue to go to the next screen and begin your registration **Previous** [button] **Continue** [button] [default option] **Exit** [button]	Click the **Previous** button to return to the **Hewlett-Packard's Electronic Registration** dialog box. Click the **Continue** button to start a sequence of three screens. The first screen provides fields for entering your registration information. The second screen prompts you for information about your HP LaserJet 8150 printer. The third screen gives you the option of sending the e-mail message to register the product. Click the **Exit** button to open the **Exiting Registration!** dialog box.

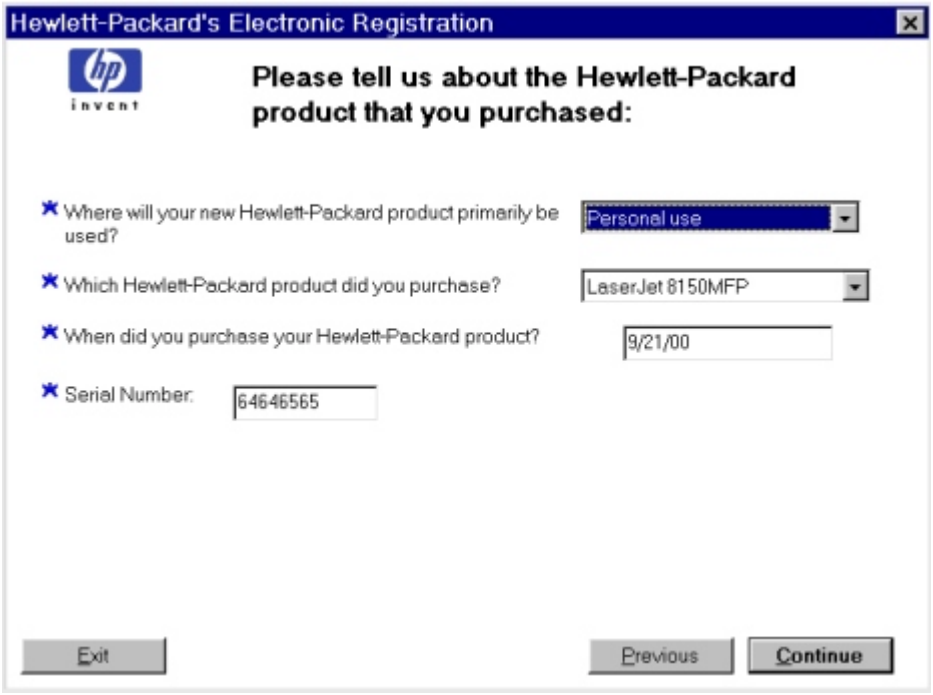
Figure 33: Hewlett-Packard's electronic registration dialog box (1 of 3)



Title of Dialog box	Text in Dialog box	User Options and Descriptions
Hewlett-Packard's Electronic Registration [This is the first of three screens.]	Please complete the following (required fields are denoted by a blue asterisk): [The following items are fields unless otherwise noted.] **First name*** **Middle Initial** **Last Name*** **Company/Organization Name*** **Building/Mail Stop/Dept.** **Mailing Address*** **City/Town*** **State*** [drop-down menu] **Zip Code*** **E-mail Address** **Telephone Number** **Extension**	Click the **Previous** button to go back to the **Welcome to Hewlett-Packard's Registration** dialog box.

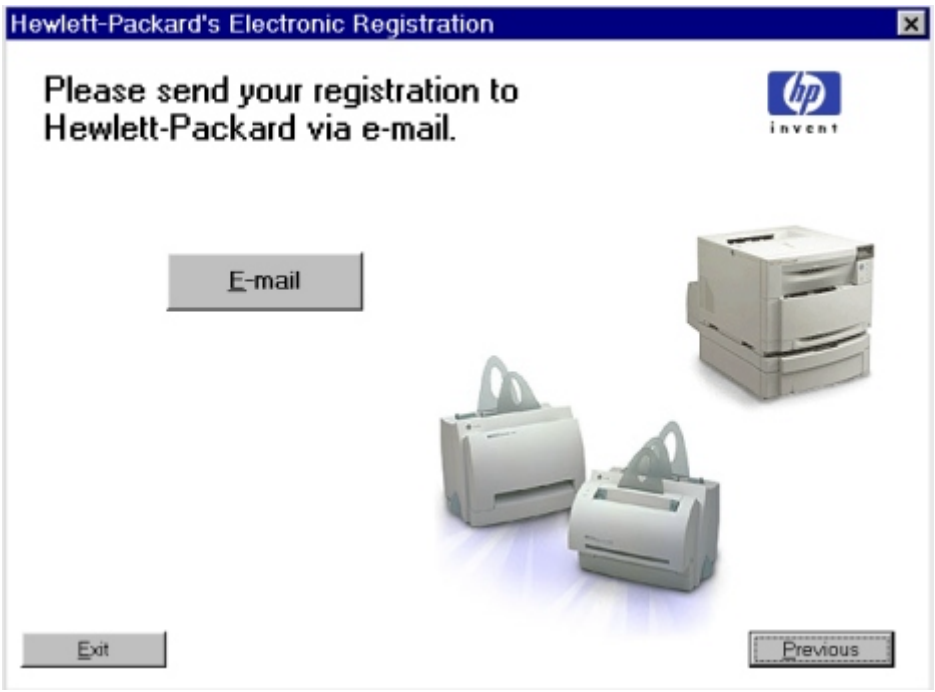
Title of Dialog box	Text in Dialog box	User Options and Descriptions
	Occasionally HP communicates information on products and/or programs that may be relevant to you. Please select the method(s) HP may use to contact you. (check all that apply) **E-mail** [check box] **Mail** [check box] **Telephone** [check box] **Please don't contact me unless I specifically request it** [check box] **Previous** [button] **Continue** [button] **Exit** [button]	Click the **Continue** button to go to the second screen in this sequence. Click the **Exit** button to open the **Exiting Registration!** dialog box.

Figure 34: Hewlett-Packard's electronic registration dialog box (2 of 3)



Title of Dialog box	Text in Dialog box	User Options and Descriptions
Hewlett-Packard's Electronic Registration [This is the second of three screens.]	Please tell us about the Hewlett-Packard product you purchased: **Where will your new Hewlett-Packard product primarily be used?** [drop-down menu] **Which Hewlett-Packard product did you purchase?** [drop-down menu] **When did you purchase your Hewlett-Packard product?** [field] **Serial Number** [field]	Click the **Previous** button to go back to the first screen in this sequence. Click the **Continue** button to go to the third screen in this sequence. Click the **Exit** button to open the **Exiting Registration!** dialog box.

Figure 35: Hewlett-Packard's electronic registration dialog box (3 of 3)



Title of Dialog box	Text in Dialog box	User Options and Descriptions
Hewlett-Packard's Electronic Registration [This is the second of three screens.]	Please send your registration to Hewlett-Packard via e-mail. **E-mail** [button] [default option] **Previous** [button] **Exit** [button]	Click the **E-mail** button to send an e-mail to HP containing the registration information you specified. A thank-you screen appears when the e-mail is sent. Click the **Previous** button to go back to the second screen in this sequence. Click the **Exit** button to open the **Exiting Registration!** dialog box.

Figure 36: Exiting Registration!

Title of Dialog box	Text in Dialog box	User Options and Descriptions
Exiting Registration!	You have selected to exit Hewlett-Packard's registration. If you would like to continue with registration, please press the continue button to return to the place where you exited. **Continue** [button] [default option] Otherwise, you may go to the URL below to register your product at any time. http://www.hp.com/go/register Thank you for your valuable time! **Exit** [button]	Click the **Continue** button to go back to the screen where you were when you clicked **Exit**. Click the **Exit** button to close the WebReg utility.

Duplex registration

When printed items are duplexed, or printed on both sides of the paper, a faint impression of the image on the back side of the page often shows through. If the images on the front and back of the page are misregistered (not in alignment), the result can be distracting and unpleasing. The Duplex Registration feature of the HP LaserJet 8150 printer provides a means to compensate for this effect.

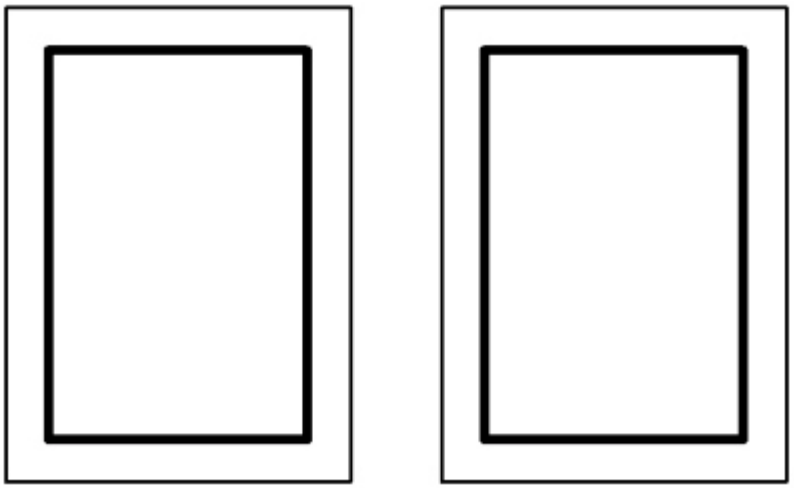
NOTE:	The Duplex Registration feature is *not* intended to compensate for misalignment that results from a large difference in the left and right or the top and bottom margins of pages set up in an application.

Misregistration of the images on the front and back of a duplex page can occur because the path the paper travels during a duplex print job is more complicated than when simplex printed. The duplexing unit itself might not be able to maintain registration (alignment) as closely as the regular cassette trays. It might also be out of alignment compared to one (or more) of the input trays. Even when a simplex job appears to be lined up, once the paper travels through the duplexing unit misregistration can occur.

For print jobs that are primarily text, the misalignment might not be particularly noticeable or troublesome. However, when borders, rules, and other graphics elements are used, undesirable misregistration can become more noticeable.

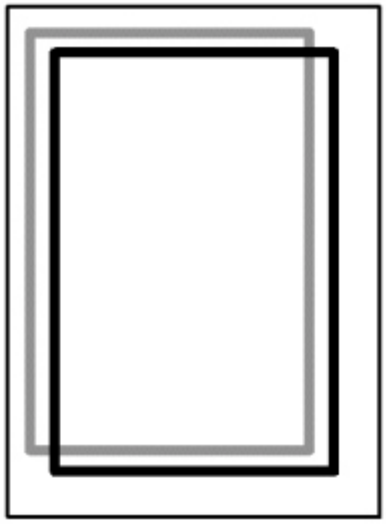
For example, a bounding box at the outside margins can be printed on each side of the page outlining the printable area. In this example, this would result in the following two single-sided pages from a simplex job:

Figure 37: Two single-sided pages



The same job, when printed duplex, could look like this illustration, where the gray box represents the image on the back side of the page.

Figure 38: Misregistration on a duplex print job



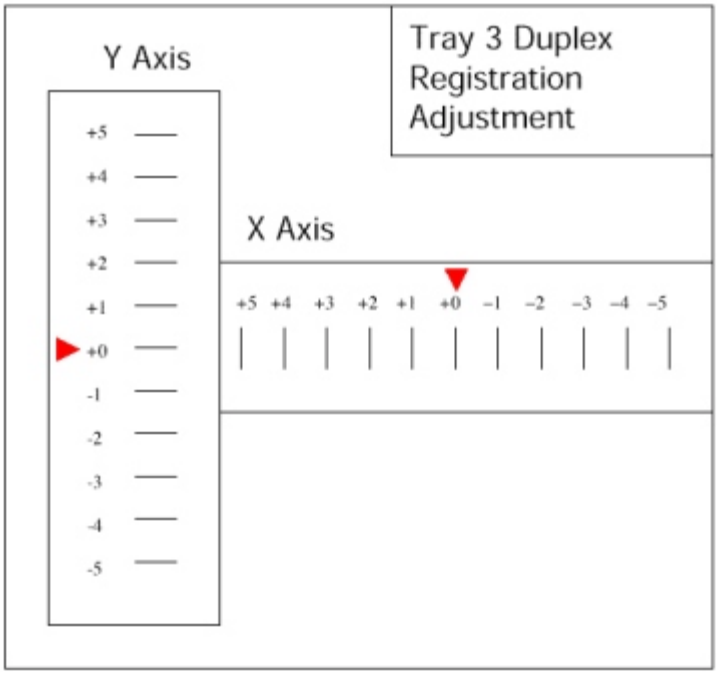
To compensate for this effect, the duplex registration feature allows an offset to be specified for each media tray (except for the multipurpose tray, tray 1). These offset values are used to adjust the alignment so that the top and left margins of a page line up on both sides of the page when the second side of a page is printed. These X and Y offset values are stored in the printer's non-volatile memory (NVRAM).

Calibration page

The duplex registration feature allows you to calculate the correct X and Y offsets for each tray using a special calibration page.

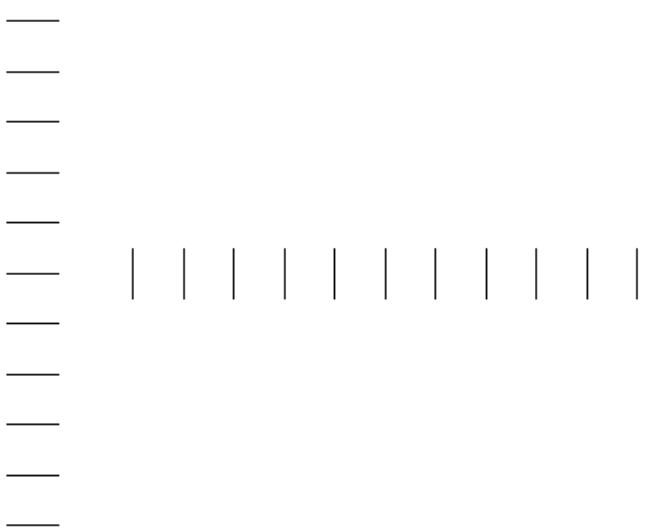
When a calibration page is printed, the following image is printed on the “front” side of the page.

Figure 39: Front side of the calibration page



The following lines are drawn on the second side of the page.

Figure 40: Back side of the calibration page



These lines are printed in such a way that when you hold the calibration page against a light source (such as a overhead light, a light table, or a window) the lines on the back side of the page are visible and appear to align with the grid lines on the front side. You then can choose the numbered lines on both the X axis and the Y axis where the front and back grid lines match up.

For each axis, one line from the back side of the page should appear to line up closely with a numbered line on the front side. The number on the front side is the value that should be entered for the appropriate tray's X and Y offset values. The lines on the front and back grids are spaced so that only one pair of lines in each axis will appear to line up better than the other ten pairs of lines. The arrows on the calibration page show the current offset value stored in the printer's NVRAM.

Accessing the duplex registration menus

Access to the Duplex Registration calibration pages and settings is provided through the printer's control panel.

On the HP LaserJet 8150 printer control panel display, use the MENU key to move through the available menus until DUPLEX 0REGISTRATION MENU appears. Press the ITEM key to scroll through the available media tray settings. Use the -VALUE+ key to enter the value for both the X and Y offsets. The valid range of values you can enter is from -5 to 5.

NOTE:	DUPLEX REGISTRATION menu appears only when a duplexing unit has been installed correctly in the printer.

The menu tree for the **Duplex Registration** menu appears as follows:

DUPLEX REGISTRATION MENU
- TRAY 2 PRINT TEST PAGE
- TRAY 2 X = 0 *
- TRAY 2 Y = 0 *
- TRAY 3 PRINT TEST PAGE
- TRAY 3 X = 0 *
- TRAY 3 Y = 0 *
- TRAY 4 PRINT TEST PAGE
- TRAY 4 X = 0 *
- TRAY 4 Y = 0

Menu items for TRAY 1 do not exist. This is because in most cases, the multipurpose or MP (manual feed) tray, otherwise known as tray 1, does not have close enough margin registration tolerances to make calibration attempts useful.

The menu items for TRAY 4 will only appear if an external paper-handling device is present. If an external input device has more than one paper tray, the TRAY 4 settings apply to all paper trays in the external device, because all the external input device trays feed through the VTU (vertical transfer unit), which is the registration point for external input devices.

Using the duplex registration calibration page

The following instructions appear on the calibration page to assist you in calibrating the duplexing unit with the printer's input paper trays.

Modifying the registration value

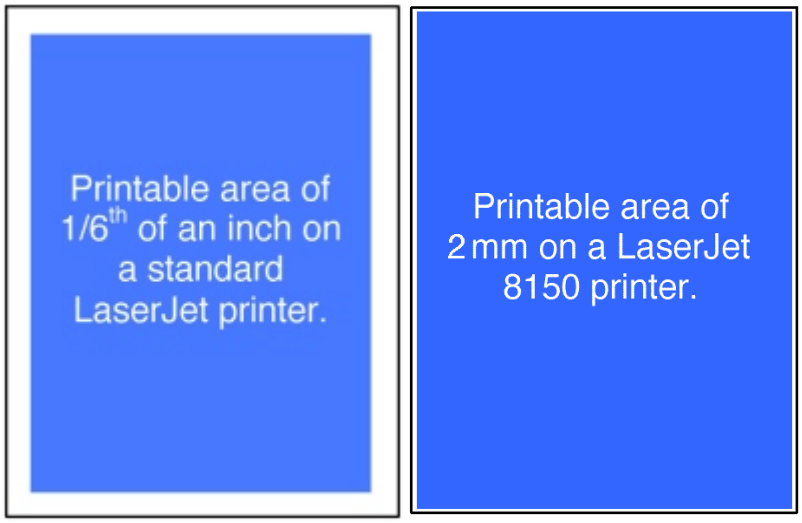
1. Hold this page up to a light source and choose the number on each axis where the lines on the front and back of the page align most accurately.
2. Press **Menu** until DUPLEX REGISTRATION MENU appears on the printer control panel display.
3. Press **Item** until TRAY *n* X = appears and use **–Value+** to enter the number you selected from this test page in step 1.
4. Press **Item** until TRAY *n* Y = appears and use **–Value+** to enter the number you selected from this test page in step 1.
5. Press **Item** to scroll up through the duplex registration menu until PRINT TEST PAGE appears for TRAY *n*.
6. Press **Select** to print the page.
7. Repeat step 1 to verify that the lines on the front and back of the page are properly aligned.

NOTE:	In steps 3, 4, and 5, the 'n' should be replaced with the number of the paper tray from which the test page was printed.

Edge-to-Edge printing

The Edge-to-Edge feature on the HP LaserJet 8150 printer allows you to expand the printable area on a page to within 2 millimeters (mm) of each edge (see illustration below). This feature allows you to print as close to the edge of the paper as possible, and is available for all supported media sizes. The HP LaserJet 8150 printer has a default margin size of about 4.2 mm (1/6 inch) when the Edge-to-Edge feature is not on. The following illustration shows a comparison between the standard printable area and that available using the HP LaserJet 8150 Edge-to-Edge feature.

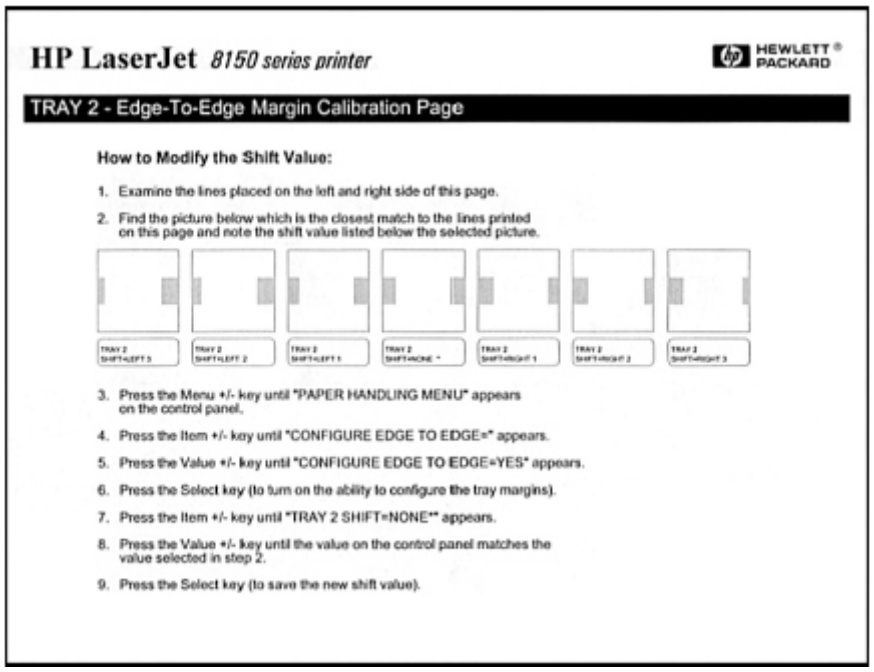
Figure 41: Comparison of standard and Edge-to-Edge printable areas



Calibration page

The Edge-to-Edge feature requires accurate registration of the paper trays. The *HP LaserJet 8150 Edge-to-Edge Calibration Page* is available through the printer to provide a visual tool for calibrating each tray on the printer. It provides instructions about how to calibrate each tray, a set of marking lines on each side of the page, and a set of thumbnails to use as a guide to compare against the marking lines. The calibration page can be printed from each Internal tray (except the envelope feeder) and from the topmost tray of an External input paper-handling device, such as the 2,000-sheet input tray or two 500-sheet input trays).

Figure 42: HP LaserJet 8150 Edge-to-Edge Calibration Page



Using the Edge-to-Edge feature menus

When navigating through the menus, the user sees the following menu tree:

PAPER HANDLING MENU
    CONFIGURE EDGE TO EDGE=NO*

When you change the CONFIGURE EDGE TO EDGE item to YES, the menu tree expands to display the following:

PAPER HANDLING MENU
    CONFIGURE EDGE TO EDGE=YES*
    PRINT TEST PAGE TRAY = ALL*
    TRAY 1 SHIFT = NONE*
    TRAY 2 SHIFT = NONE*
    TRAY 3 SHIFT = NONE*
        OPTIONAL TRAY SHIFT = NONE* (OPTIONAL TRAYS SHIFT = NONE*)

For the **Print test page** menu item, the possible tray values are: ALL, 1, 2, 3, and OPTIONAL.

For each of the TRAY *n* SHIFT items (where *n* is the tray number), the possible shift values can be: LEFT 3, LEFT 2, LEFT 1, NONE, RIGHT 1, RIGHT 2, or RIGHT 3. The values determine how the image is positioned on the page to allow Edge-to-Edge printing.

For optional paper-handling devices that have more than one input tray, only the first tray of the device can be calibrated for Edge-to-Edge printing. You can select other optional input trays to print Edge-to-Edge, but the resulting output may be unacceptable.

Using the Edge-to-Edge calibration page

The following instructions that appear on the calibration page assist you in calibrating the HP LaserJet 8150 printer's paper trays for Edge-to-Edge printing.

Modifying the Shift Value:

1. Examine the lines placed on the left and right side of this page.
2. Find the picture below which is the closest match to the lines printed on this page and note the shift value listed below the selected picture.
3. Press the **Menu +/-** key until "PAPER HANDLING MENU" appears on the control panel.
4. Press the **Item +/-** key until "CONFIGURE EDGE TO EDGE=" appears.
5. Press the **Value +/-** key until the "CONFIGURE EDGE TO EDGE=YES" appears.
6. Press the **Select** key (to turn on the ability to configure the tray margins).
7. Press the **Item +/-** key until "TRAY n SHIFT=NONE" appears.
8. Press the **Value +/-** key until the value on the control panel matches the value selected in Step 2.
9. Press the **Select** key (to save the new shift value).

NOTE:	In step 7, the 'n' should be replaced with the number of the paper tray from which the test page was printed.

Always On mode

Continuous or excessive use of the Edge-to-Edge feature might eventually result in toner deposited off the page, accumulating inside the printer on rollers/gears, and causing print quality issues. For this reason, the Edge-to-Edge feature is designed by default to be only turned on for a single job, and then automatically turned off at the end of the job.

Edge-to-Edge settings in the printer drivers will always override the Edge-to-Edge settings of the HP LaserJet 8150 control panel. An Edge-to-Edge override set to YES should be used only when you cannot use the printer driver's control of the feature, such as in a UNIX operating environment.

PRINTING MENU

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EDGE TO EDGE OVERRIDE=NO*

You can also send down the following PJL jobs to turn on or turn off the override mode:

To turn ON:

<ESC>%-12345X@PJL JOB
@PJL DEFAULT EDGETOEDGE=YES
<ESC>%-12345X@PJL EOJ

To turn OFF:

<ESC>%-12345X@PJL JOB
@PJL DEFAULT EDGETOEDGE=NO
<ESC>%-12345X@PJL EOJ

The HP LaserJet 8150 control panel settings should match the current PJL DEFAULT value, if set.

Enabling Edge-to-Edge printing in the printer driver software

The following instructions allow you to access the Edge-to-Edge feature in the printer driver preferences:

1. Open the **Printers** control panel.
2. Select the HP LaserJet 8150 PCL 6 driver and open the printer preferences dialog.
3. Choose the **Finishing** tab.
4. In the **Print Quality** group, click on the **Details** button.
5. Click on the **Edge to Edge** printing checkbox to enable the feature.

Job Retention in RAM

The HP LaserJet 8100 printer introduced job retention features that required the use of an EIO hard disk. A new feature of the HP LaserJet 8150, called Job Retention in RAM, lets you use some job retention options without an installed EIO hard disk in the printer.

The proof and hold and private job options are available with the Job Retention in RAM feature. Other options continue to require the installed EIO hard disk.

NOTE:	The Job Retention in RAM feature is not supported under Windows 3.1*x*.

For more information on the Job Retention feature, see “Destination Features”.

Job Status and Alerts

The HP LaserJet 8150 Printing System software includes a new utility called Job Status and Alerts that lets you monitor print jobs and printer status from the desktop. Job Status and Alerts is a selectable component of custom installation. To install Job Status and Alerts, choose the **Custom Installation** and select the appropriate check box.

NOTE: These features are available only for printers connected to a network. Parallel and universal serial bus (USB) connections do not support Job Status and Alerts.

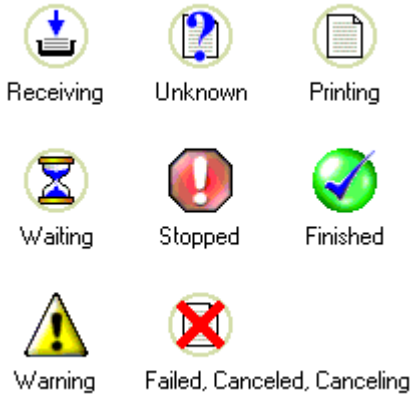
Windows NT 4.0 and Windows 2000 do not support Job Status and Alerts with Terminal Server.

On Windows 95, Internet Explorer 3.0 or lower does not support printer status.

Unlike HP Toolbox, HP Job Status and Alerts only polls the printer during an active print job to minimize network traffic.

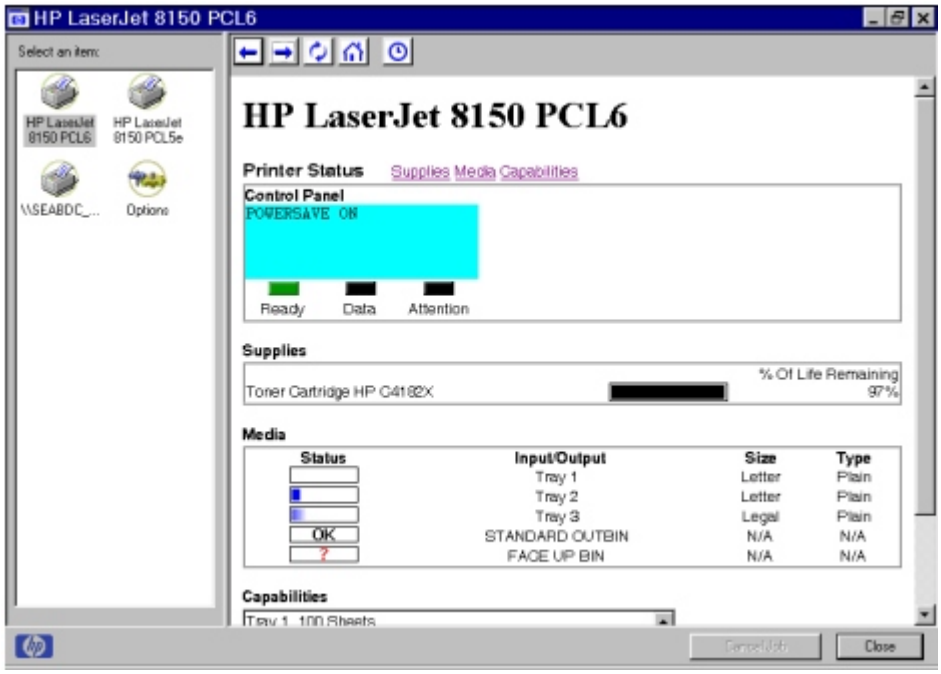
When the Job Status and Alerts feature is installed, a status icon in the form of a printer is included in the Windows system tray. The printer icon remains unchanged until you send a print job to the HP LaserJet 8150 printer. When you send a print job, the icon changes to alert you to the status of the print job. Nine icons exist in this feature. These eight show current printer status.

Figure 43: Job Status and Alerts icons



Double-click the status icon to open the **Job Status and Alerts** window shown in the following illustration.

Figure 44: Job Status and Alerts window



The **Job Status and Alerts** window consists of two panes. The left pane shows icons for the available printers, an icon for each current print job in progress, and an **Options** icon. The right pane provides information based on what is selected in the left pane.

Click a printer icon in the left pane to view information about the printer and supplies or to view a history of recent print jobs. The following printer information is available:

- **Printer Status** shows a replica of the printer control panel that indicates the current status of the HP LaserJet 8150 printer.
- **Supplies** shows information about the percentage of toner-cartridge life remaining.
- **Media** provides information about paper-handling devices and the status of each device. For example, this section of the window shows the level of media present in each input device, as well as the status of output devices. This section also provides information about the type and size of media loaded in each input device.
- **Capabilities** provides information about such things as installed trays, paper-handling accessories, and disk storage.

Click a print job icon to see information about the progress and status of the print job.

Click the **Option** icon to select options for configuring pop-up status windows and to set the refresh rate for displaying job status information.
There are four options for configuring pop-up status windows. You can choose to display pop-up status windows when:

- You've printed a new document (the print job was just sent to the printer).
- Your document has finished printing (the print job is complete).
- The printer has reported a warning condition (reports all warning conditions that *DO NOT* affect your current print job).
- Your document cannot be completed because of an error (reports all warning conditions that *DO* affect your current print job).

If the last two conditions occur, the printer status icon in the Windows system tray changes to the exclamation-point icon. Double-click the icon to open the **Job Status and Alerts** window and view information about the condition.

NOTE:	Depending on the options you select, a new status window will pop up for each job printed, each job completed, and each warning condition detected.

The following table lists the HP printer models and drivers that support Job Status and Alerts.

Printer model	Drivers supported
HP Color LaserJet 4500	PCL 6, PCL 5c, PS
HP Color LaserJet 8500	PS
HP Color LaserJet 8550	PCL 5c, PS
HP LaserJet 4000 series	PCL 6, PCL 5e, PS
HP LaserJet 4100 series	PCL 6, PCL 5e, PS
HP LaserJet 4050 series	PCL 6, PCL 5e, PS
HP LaserJet 4550	PCL 6, PCL 5e, PS
HP LaserJet 5000 series	PCL 6, PCL 5e, PS
HP LaserJet 8000	PCL 6, PCL 5e, PS
HP LaserJet 8100 series	PCL 6, PCL 5e, PS
HP LaserJet 8150 series	PCL 6, PCL 5e, PS
HP Mopier 240	PCL 6, PS
HP Mopier 320	PCL 6, PS

Remote firmware upgrade

The HP LaserJet 8150 series printers are the first to feature a remote firmware upgrade capability. The method for downloading remote firmware upgrades from the http://www.hp.com Web site is similar to that used to download the latest printing system software and printer drivers. The Web site features an “Email me when new software is available” option that sends e-mail when a new version of printer firmware is available. Also, if you used HP WebReg to register the HP LaserJet 8150 series printer, HP will send you e-mail notifications of new firmware releases.

The process for upgrading printer firmware remotely involves three steps:

1. Determine the current level of firmware installed on the HP LaserJet 8150 printer.
2. Go to the http://www.hp.com Web site and download the latest firmware.
3. Download the new firmware to the printer.

Determining the current level of firmware

To determine the current level of firmware installed on the printer:

1. Go to the printer control panel.
2. Press **Menu** until INFORMATION MENU appears on the control panel display.
3. Press **< Item >** until PRINT CONFIGURATION appears on the control panel display.
4. Press **Select** to print the Configuration Page.
5. Look in the section marked **Printer Information** for the **Firmware Datecode**. The **Firmware Datecode** will look something like this:

   20000605 MB7.84

Downloading the new firmware from the HP Web site

The .RFU file and an associated readme file are packaged together as a self-extracting .EXE file of approximately 4 MB in size. See the http://www.hp.com Web site for detailed instructions on how to download the .EXE file.

Downloading the new firmware to the printer

You can send an .RFU upgrade to a printer at any time; the printer will wait for all I/O channels to become idle before cycling power.

NOTE:	If the firmware upgrade involves a change in the format of NVRAM, the NVRAM settings will be lost and must be set again by the customer.

The elapsed time for an upgrade depends on the I/O transfer time as well as the time that it takes for the printer to reinitialize. The I/O transfer time will depend on a number of things including the speed of the host computer sending the upgrade, the I/O method (FIR, parallel, or network). The re-initialization time will depend on the specific hardware configuration of the printer, such as the number of EIO devices installed, the presence of External paper handling devices, and the amount of memory installed. Finally, any print jobs ahead of the .RFU job in the queue will be printed before the .RFU upgrade is processed.

NOTE:	The printer will automatically reboot after processing the upgrade.

For Windows systems: If the printer is shared on the network, then the following command can be issued from a command prompt:

```
copy /b c:/temp/mb785..RFU \\jsmith-nt\lj8150
```

where c:/temp/mb785..RFU is the name of the .RFU file, jsmith-nt is the machine name, and lj8150 is the printer's share name.

If the printer is attached locally, then the .RFU file can be sent directly to the printer with a COPY command from a command prompt or DOS window:

```
copy /b c:/temp/mb785..RFU lpt1:
```

where c:/temp/mb785..RFU is the name of the .RFU file and lpt1: is the appropriate port name.

You can also send the file via a Fast Infrared (FIR) port.

For UNIX systems: Any method that delivers the .RFU file to the printer will work, including:

```
$ hpnpf -x <IP address> /home/rring/mb785..RFU
```

and

```
$ cp /home/rring/mb785..RFU /dev/parallel
```

where /home/rring/mb785..RFU contains the .RFU file.

For Macintosh systems: The .RFU file can be sent to the printer using the HP LaserJet Utility to download as a file.

Using HP Web JetAdmin to download the firmware to the printer

This procedure requires that Web JetAdmin v. 6.1 or later be installed. The following steps will upgrade a single printer through HP Web JetAdmin after downloading the .RFU file from the HP Web site.

1. Start HP Web JetAdmin.
2. Enter the IP address or IP hostname of the printer in the **Quick Device Find** field, and then click **Go**. The printer's **Status** window appears.
3. Click the right arrow on the toolbar to display the **Update** button.
4. Click **Update**.
5. When prompted for the type of update to perform, select **Update Printers** and click **Continue**.
6. Under **Upload new firmware image:**, click **Browse** to locate the .RFU file you downloaded from the http://www.hp.com Web site.
7. Click **Upload** to move the .RFU file from your hard drive to the HP Web JetAdmin server.
8. Refresh the browser.
9. Select the .RFU file from the **Select new firmware version:** drop-down menu.
10. Click **Update Firmware**. HP Web JetAdmin sends the selected .RFU file to the printer.

Also, HP Web JetAdmin 6.1 can be used to perform multiple or unattended installations.

1. Start HP Web JetAdmin.
2. Create a device group. A simple way to do this is to:
   a. Select **Devices** from the **1. Choose:** drop-down menu.
   b. Select **Device Model** from the **2. Filter:** drop-down menu.
   c. Type **8150** in the 3**. Criteria (Optional):** field.
   d. Click Go.
3. In the **Device List,** select the printers you want to include in the group and click **Create Group**.
4. When prompted, type a name for the new device group and click **OK**.
5. Click **Update**.
6. When prompted for the type of update to perform, select **Update Printers** and click **Continue**.
7. From the list of HP Devices, select the printers to be upgraded, or click **Select All**.
8. Click **Update** to install the new printer firmware.

The printer displays three messages during a normal upgrade process:

Printer message	Explanation
RECEIVING UPGRADE	Displayed from the time the printer recognizes the beginning of an .RFU upgrade until the time the printer has verified the validity and integrity of the .RFU upgrade.
UPGRADING PRINTER	Displayed while the printer is actually reprogramming the DIMM with the .RFU upgrade.
WAIT FOR PRINTER TO REINITIALIZE	Displayed from the time the printer has finished re-programming the DIMM until the printer reinitializes.

NOTE: To verify that the firmware upgrade succeeded, print a Configuration page from the printer's control panel and verify that the firmware datecode shown on the Configuration page is the same as the datecode of the .RFU file you downloaded.

Troubleshooting a firmware upgrade

The following table lists causes and results for possible interruptions to the firmware upgrade.

Cause	Result
Job cancelled from printer control panel	No upgrade has occurred.
Break in I/O stream during send (for example, parallel cable removed)	No upgrade has occurred.
Power cycle during RECEIVING UPGRADE	No upgrade has occurred.
Power cycle during UPGRADING PRINTER	Resend upgrade.
Power cycle during WAIT FOR PRINTER TO REINITIALIZE	Upgrade completed.

Print jobs sent to the printer while an upgrade is in process will not interrupt the upgrade.

The following table lists possible reasons for the failure of a remote firmware upgrade and the corrective action to take for each situation.

Reason for firmware upgrade failure	Corrective action
.RFU file corrupted	The printer will recognize that the file is corrupted and will reject the upgrade. Download the image from the http://www.hp.com Web site again and send the new file to the printer.
Wrong printer model in .RFU file	The printer will recognize the model mismatch and will reject the upgrade. Download the correct image from the http://www.hp.com Web site and send it to the printer.
Upgrade interrupted	See previous table.
Flash hardware failure	Although extremely unlikely, the flash DIMM itself may have a hardware failure. In this case, order another flash DIMM from HP.

NOTE: All HP LaserJet 8150 series printers ship from the factory with the latest available firmware version installed in a backup partition on the flash DIMM. If a remote firmware upgrade fails, the printer can use the backup firmware to reboot. You can then attempt the remote firmware upgrade again.

PCL 6 and PCL 5e driver features

This section describes the options available on each tab of the HP LaserJet 8150 PCL 6 and PCL 5e driver interfaces.

NOTE:	The Windows 3.1*x* Print dialog does not offer a **Properties** button to access the HP LaserJet 8150 printer driver settings dialogs. Use the Print Setup command in the **File** menu to access the settings dialogs, and then click **Print**. .

Help system

The HP LaserJet 8150 PCL 6 and PCL 5e drivers include a full-featured Help system to provide assistance with printing and configuration options.

What's this? Help

Windows 9*x*, Windows Millennium Edition, Windows NT 4.0, and Windows 2000. **What's this?** Help is supported. To use **What's this?** Help:

- Right-click a control and select **What's this?** to display a pop-up help window.
- Click the **?** button located on the top-right corner of the frame next to the **X** to change the cursor to an arrow with a question mark. Selecting a control with this special cursor displays the pop-up **Help** window for that feature.
- Press the **F1** key to display the **Help** window for the control that currently has focus.

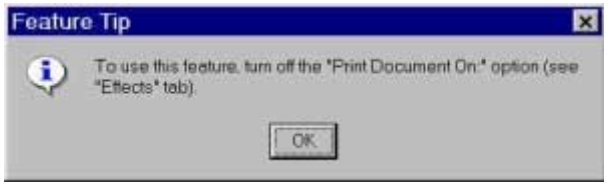
Page-sensitive Help

Press the **Help** button on a driver tab or dialog box to display context-sensitive Help.

Constraint messages

Constraint messages are unsolicited messages that appear in response to specific actions you take. These messages alert you to selections that are illogical or impossible given the capabilities of the printer or the current settings of other controls. For example, if you select duplex printing and then change the paper type to transparencies, a message appears asking you to resolve this conflict.

Figure 45: A typical constraint message with an OK button



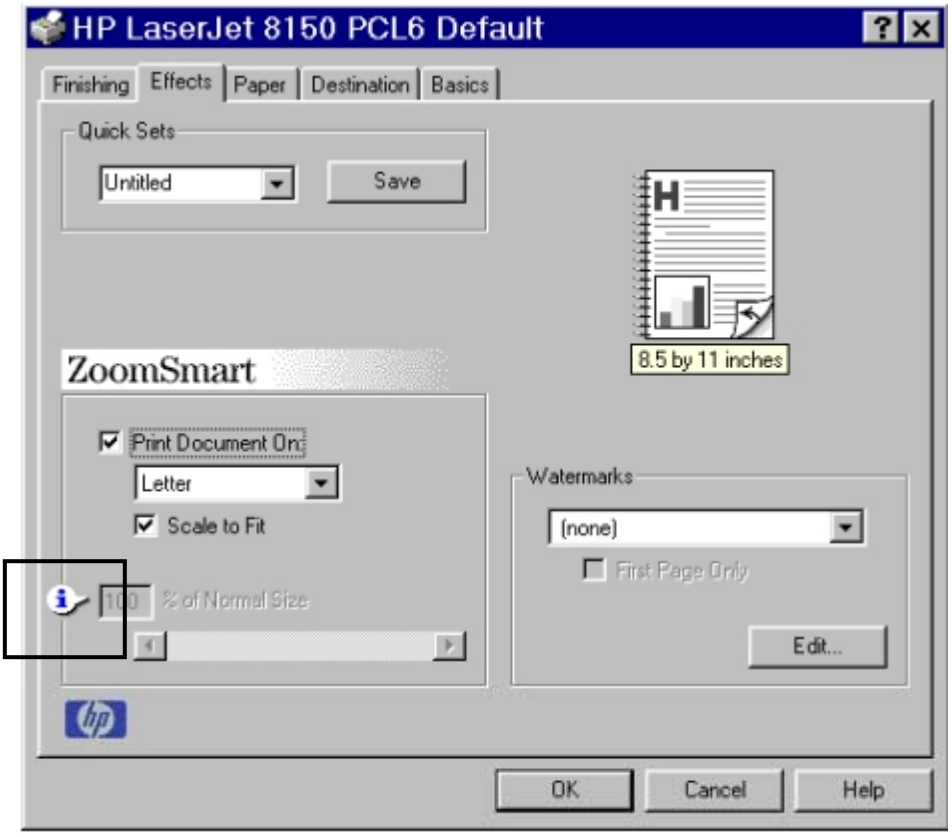
Whenever a constraint message appears with an **OK** and a **Cancel** button, the interpretation of the buttons is as follows:

- Selecting **OK** accepts the change that was just made, and the driver then resets the conflicting control to a setting that is compatible with the new value.
- Selecting **Cancel** rejects the change that was just made, setting the control back to its previous value.

Bubble Help

Bubble Help features a graphical icon resembling a cartoon speech bubble with a small **i** in it, representing the international symbol for information. (See below for a list of the Bubble Help messages.) The following illustration shows Bubble Help icons on a driver tab.

Figure 46: A property page with a Bubble Help icon

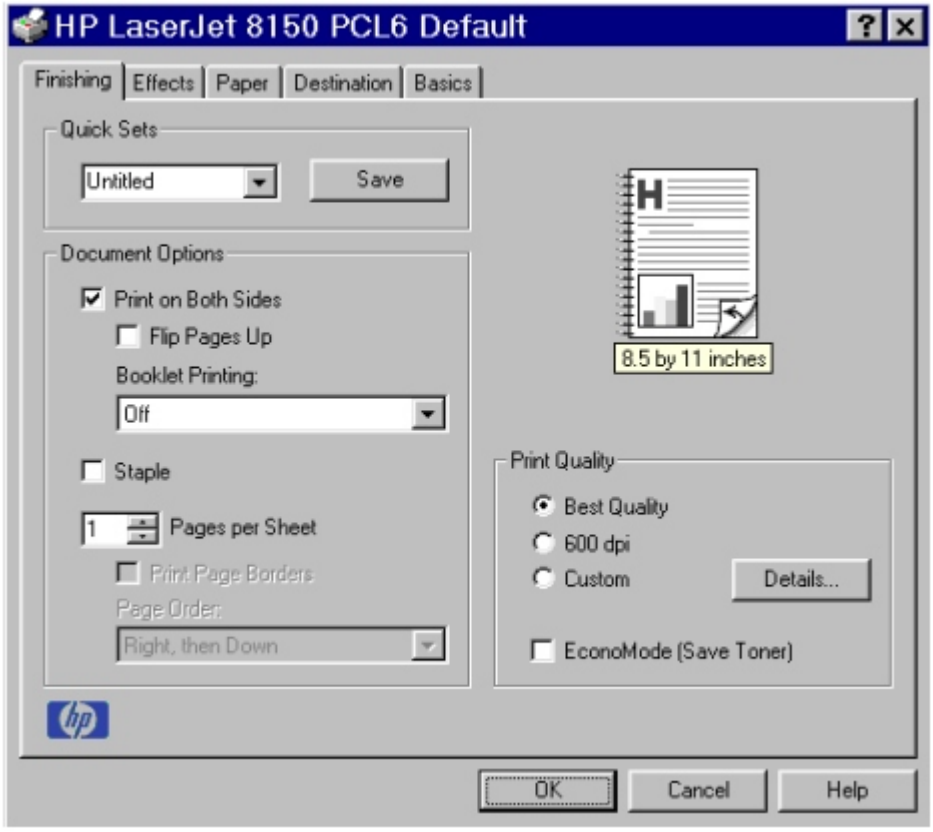


The bubble typically appears next to a disabled control, although it can also accompany an enabled control if there is an important note concerning its use. Moving the pointer over the bubble changes the arrow to a gloved hand, which indicates that the area underneath the pointer is selectable. You can select the bubble using either the mouse or the keyboard, and a message box will appear with a brief explanation of why the control is disabled and what can be done to enable it. If the control is not disabled, the message is a tip or precaution to be aware of when using that particular feature.

Finishing tab features

The **Finishing** tab is the default tab shown when you select **Properties** for the driver or a software application.

Figure 47: The default appearance of the Finishing tab



The **Finishing** tab contains three group boxes:

- **Quick Sets**
- **Document Options**
- **Print Quality**

Quick Sets

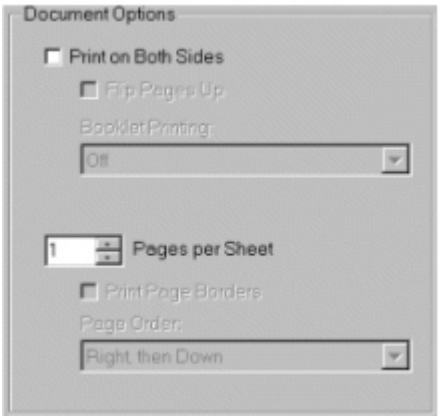
This group box is present on each tab for the driver. Quick Sets are preset or user-defined printing specifications (such as paper size, pages per sheet, etc.). The default setting is Factory Defaults. The driver also provides a Quick Set for printing the user guide.

When you change any of the default settings on the **Finishing** tab or any of the other tabs, the name in the **Quick Sets** drop-down menu dynamically changes to **Untitled**. If you want to save this configuration as a Quick Set, highlight the word **Untitled**, type the name you want for your new Quick Set, and click **Save**. Quick Sets are saved in the system registry. To delete a Quick Set, select it from the drop-down menu and click **Delete**.

Document Options

The **Document Options** group box dynamically sizes itself and positions controls to reflect configuration options of the HP LaserJet 8150 printer that affect the **Document Options** controls. For example, if a duplexing unit is installed and is selected on the driver's **Configure** tab, the group box dynamically changes to include the **Print on Both Sides** option. The following illustration shows the **Document Option** group box with the **Print on Both Sides** option available.

Figure 48: The Document Options group box



The default setting for the **Print on Both Sides** option is OFF (not selected). **Print on Both Sides** is not available when:

- **Paper Type** is set to transparency, cardstock, or labels.
- **Paper Size** is anything but letter, legal, A4, B5 (JIS), executive, and custom sizes greater than or equal to 127 mm by 190.5 mm (5.0 inches by 7.5 inches).

When **Paper Size** is set to letter, legal, or A4, selecting **Print on Both Sides** makes the **Flip Pages Up** and **Booklet Printing** options available. The default for both of these options is OFF.

The **Flip Pages Up** check box, visible only when **Print on Both Sides** is visible, is used to specify the duplex-binding option. The following table demonstrates the results of selecting this box, depending on the orientation of paper:

Orientation	Flip Pages Up selected	Flip Pages Up not selected
Portrait	Short-edge binding	Long-edge binding
Landscape	Long-edge binding	Short-edge binding

The preview document image shows a spiral binding along either the left or the top edge of the page to indicate how the pages will be flipped when **Print on Both Sides** is selected. Also, a turned up corner appears in the lower right of the preview image with an arrow that points in the direction that the page is flipped.

The **Booklet Printing** drop-down menu, visible when **Print on Both Sides** is visible, offers five choices, four of which are based on the current paper size. The list contains the following items:

- Off
- [paper size] (Left Binding)
- [paper size] (Right Binding)

Where [paper size] is dependant on the paper size set on the **Paper** tab. The following table shows the appropriate entries in the Booklet Printing drop-down menu for each selected paper size.

Paper Size selected	Entries in Booklet Printing drop-down menu
Letter	Off Letter (Left Binding) Letter (Right Binding) Legal (Left Binding) Legal (Right Binding) 11 x 17 (Left Binding) 11 x 17 (Right Binding)
Legal	Off Legal (Left Binding) Legal (Right Binding)
A4	Off A4 (Left Binding) A4 (Right Binding) A3 (Left Binding) A3 (Right Binding)

NOTE: Booklet printing is disabled when the following paper sizes are selected: executive, A3, A5, B4, B5, 11 x 17.

The **Booklet Printing** drop-down menu appears only when:

- **Print on Both Sides** is selected.
- **Percent of Normal Size (**on the **Effects** tab) is 100.
- **Pages per Sheet** is 1.
- **Paper Size** is letter, legal, or A4.
- **Print Document On**: (on the **Effects** tab) is not selected.

If any but the first of these conditions is not met, Bubble Help appears next to **Booklet Printing** to tell you why it is disabled.

The **Pages per Sheet** drop-down menu provides six settings: 1 (default), 2, 4, 6, 9, and 16. If you type another value into the box (for example, 3), the control will round the entered value down to the nearest valid value (in this example, 2). Related controls indented beneath the edit box are **Print Page Borders** and **Page Order**, which become active when **Pages Per Sheet** is greater than 1.

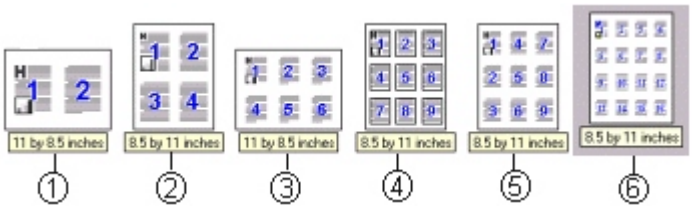
Print Page Borders sets a line around each page image on a printed sheet to help visually define the borders of each logical page.

The **Page Order** drop-down menu contains four selections:

- Right, then Down
- Down, then Right
- Left, then Down
- Down, then Left

The preview document image changes to reflect changes in these settings, as shown in the following illustration.

Figure 49: Page Order Preview image



1: 2 Pages per sheet (2-up)

2: 4-up

3: 6-up

4: 9-up with Print page borders

5: 9-up with Page order (Down, then Right)

6: 16-up

Print Quality

The HP LaserJet 8150 Series printer driver **Print Quality** group box provides options to control resolution, graphics settings, and font settings. The group box includes three options:

- Best Quality (settings predefined)
- 600 dpi (settings predefined)
- Custom (automatically selected when any changes are made to Best Quality or 600 dpi)

The **Print Quality** group box also includes a **Details** button. Clicking this button opens the **Print Quality Details** dialog box. The **Print Quality Details** dialog box provides options for various print quality settings. If you select either **Best Quality** or **600 dpi** and then change their default settings in the **Print Quality Details** dialog box, the selected option in the **Print Quality** group box of the **Finishing** tab automatically changes to **Custom**.

The following screens show the default settings for **Best Quality** and **600 dpi**.

Figure 50: Print Quality Details dialog box showing Best Quality settings

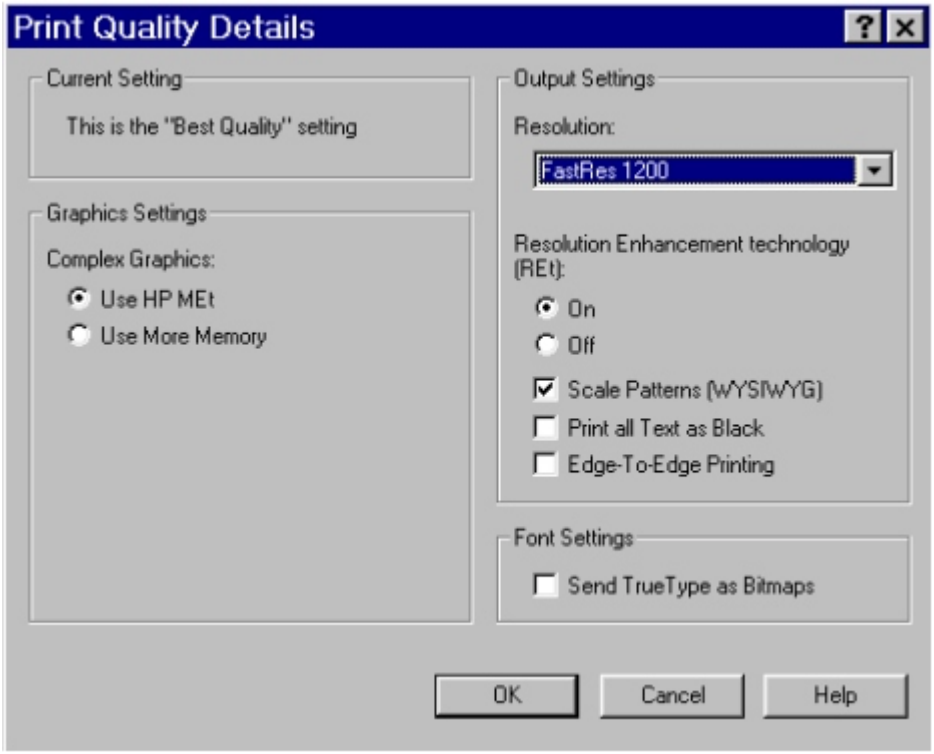
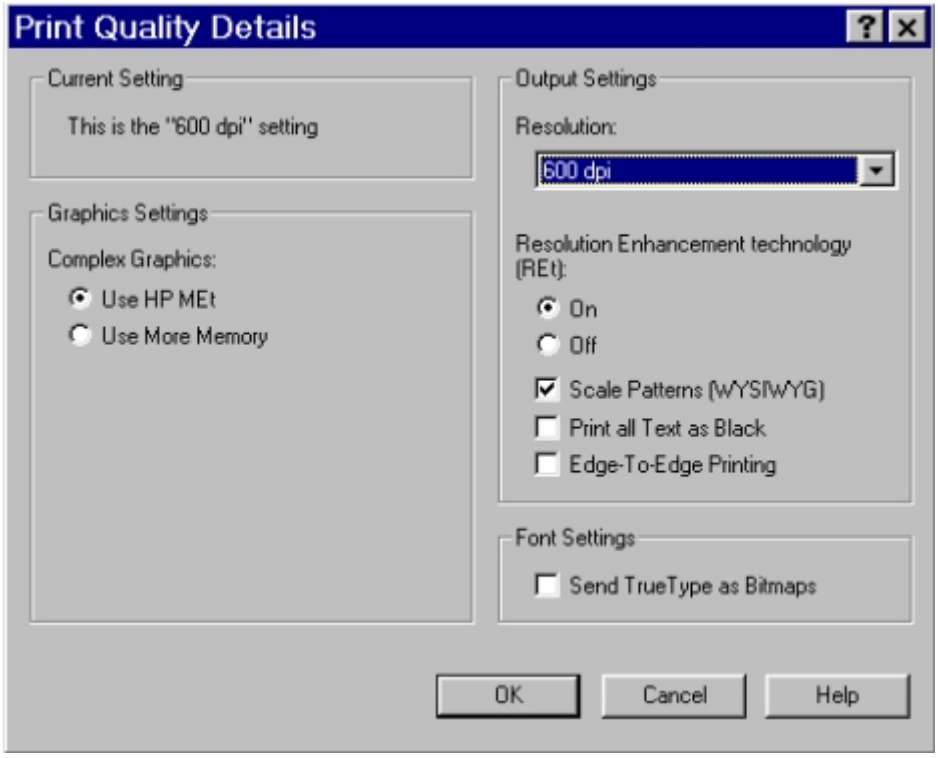


Figure 51: Print Quality Details dialog box showing 600 dpi settings



The **Graphics Settings** group box includes two options for **Complex Graphics**. These options let you determine which method to use for managing memory for print jobs. **Use HP MEt** (Memory Enhancement technology) is the default selection. This is the best choice unless you are receiving printer memory error messages. If you receive such error messages, change this setting to **Use More Memory** to complete the current print job. Then, change the setting back to the default: **Use HP MEt**.

The **Output Settings** group box contains controls for selecting **Resolution Enhancement Technology (REt), Scale Patterns (WYSIWYG)**, **Print all Text as Black**, and **Edge-to-Edge Printing**.

The HP LaserJet 8150 printer supports **Resolution Enhancement technology (REt)**. The REt feature is on by default, but you can choose to turn it off.

The **Scale Patterns (WYSIWYG)** feature is implemented to address the moiré effect created when certain applications encounter certain patterns. This feature allows you to turn off the pattern scaling. What you lose is WYSIWYG with patterns, but the printed result might look better. The feature works only with programs that use vector hatch patterns. This option is on by default.

Print all Text as Black is off by default. When selected, this option will cause the driver to image all text as black regardless of the original document text color. White text remains white. This setting does not affect graphic images on the page. **Print all Text as Black**remains selected only for the current print job. When the current print job is completed, **Print all Text as Black** is turned off automatically.

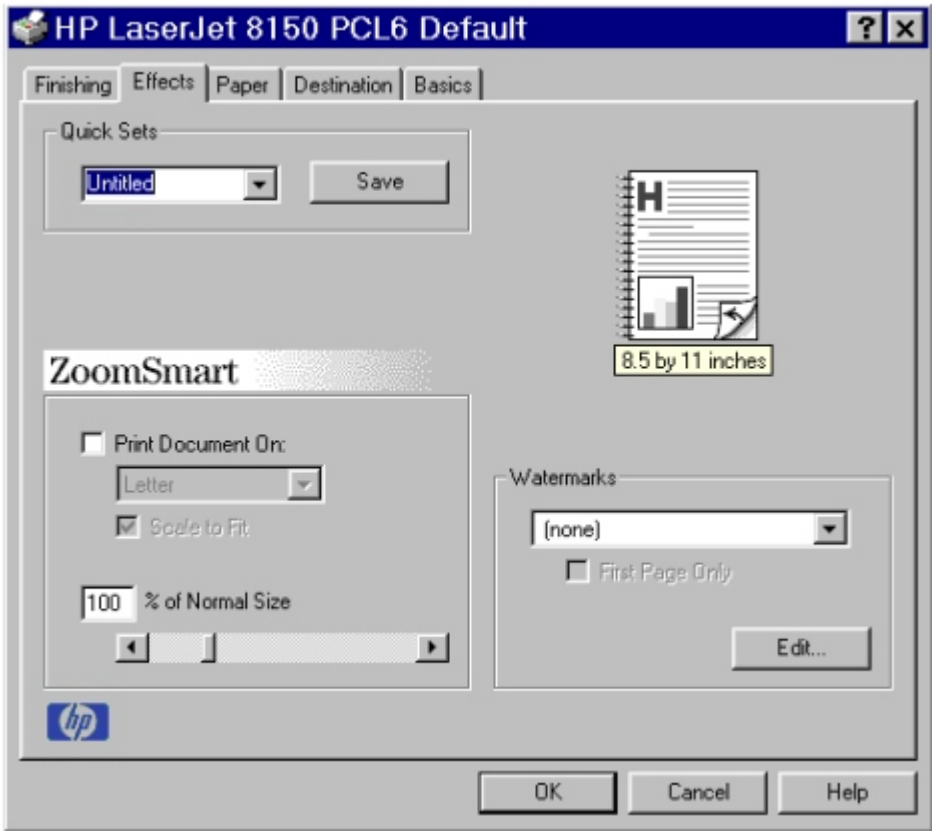
Edge-to-Edge printing is off by default. When selected, this option lets you increase the default printable area to within 2 mm of the edge of the selected media. This setting remains selected only for the current print job. When the current print job is completed, **Edge-to-Edge printing** defaults is turned off automatically.

In the **Font Settings** group box, the only available options is **Send TrueType as Bitmaps**, which provides a safety net for applications that have trouble using TrueType fonts for special graphic purposes, such as shading, rotation, or slanting.

Effects tab features

The **Effects** tab is used to create unique paper effects such as scaling and watermarks.

Figure 52: The Effects tab



ZoomSmart

The **ZoomSmart** group box includes features that scale the image on the page, either by a numeric percentage or by specifying a scale change to a different paper size. **ZoomSmart** handles scale transformations.

Print Document On: lets you format the document for one paper size, but print the document on a different paper size with or without scaling the page image to fit the new paper size.

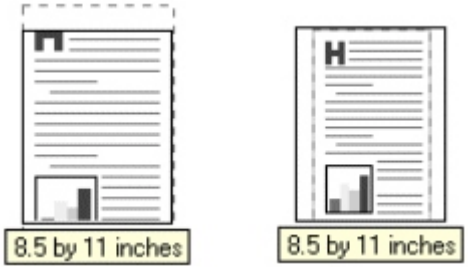
The **Print Document On:** control is disabled by any of the following:

- **Percent of Normal Size** is not 100.
- **Pages per Sheet** is not 1.
- **Booklet Printing** is on.

When **Print Document On:** is selected, the drop-down menu specifies the media size on which to print. The list contains all standard media sizes supported by the selected media source and any custom sizes that you have created (if the currently selected media source is Manual, Auto, or any Tray). When **Print Document On:** is selected, **Scale to Fit** is automatically selected.

The **Scale to Fit** option specifies whether each formatted document page image is scaled to fit the target paper size. By default, **Scale to Fit** is selected when **Print Document On:** is selected. If the setting is turned off, then the document page images will not be scaled, and are instead centered at full size on the target paper. If the document size is larger than the target paper size, then the document image is clipped. If it is smaller, then it is centered within the target paper. The following illustration shows preview images for a document formatted for Legal paper with the **Print Document On:** option selected, and the target size specified as **Letter**.

Figure 53: Preview images - legal on letter; Scale to Fit off (left) and on (right)



When the size for which the document is formatted (that is, the logical size) differs from the target size, the preview image uses a dashed gray line to show the boundaries of the logical page in relation to the target page size.

The **% of Normal Size** option provides a slider bar for scaling the percentage setting. The default setting in the entry box is 100 percent of normal size. Normal size is defined as the paper size selected within the driver or what the driver receives from the application (if the application does not negotiate paper size with the driver). The driver will scale the page by the appropriate factor and send it to the printer.

The limits of the range are from 25 percent to 400 percent, and any values outside the range are clipped to those limits as soon as the focus is removed from the control (that is, when the TAB key is pressed or another control is selected).
Any change to the scale will also change the page preview, which increases or decreases from the top left corner of the preview.

The slider bar controls the scale directly. The value in the edit box changes as the scroll bar indicator is dragged, and the preview image updates to the new image scale. Each click on the scroll bar arrows increases or decreases the scale by one percent. Each click on the slider bar affects the scale by 10 percent.

You cannot achieve an exact value by dragging the scroll bar indicator at the default Windows resolution; use the scroll bar indicator to approximate the desired value, and then use the scroll bar arrows to refine the value.

The following settings disable **% of Normal Size**:

- **Print Document On:** is selected.
- **Pages per Sheet** is not 1.
- **Booklet Printing** is on.

Watermarks

The Watermarks feature allows you to choose a watermark, create your own custom watermarks (text only), or edit an existing watermark. The following watermarks are preset in the driver:

- Confidential
- Draft
- SAMPLE

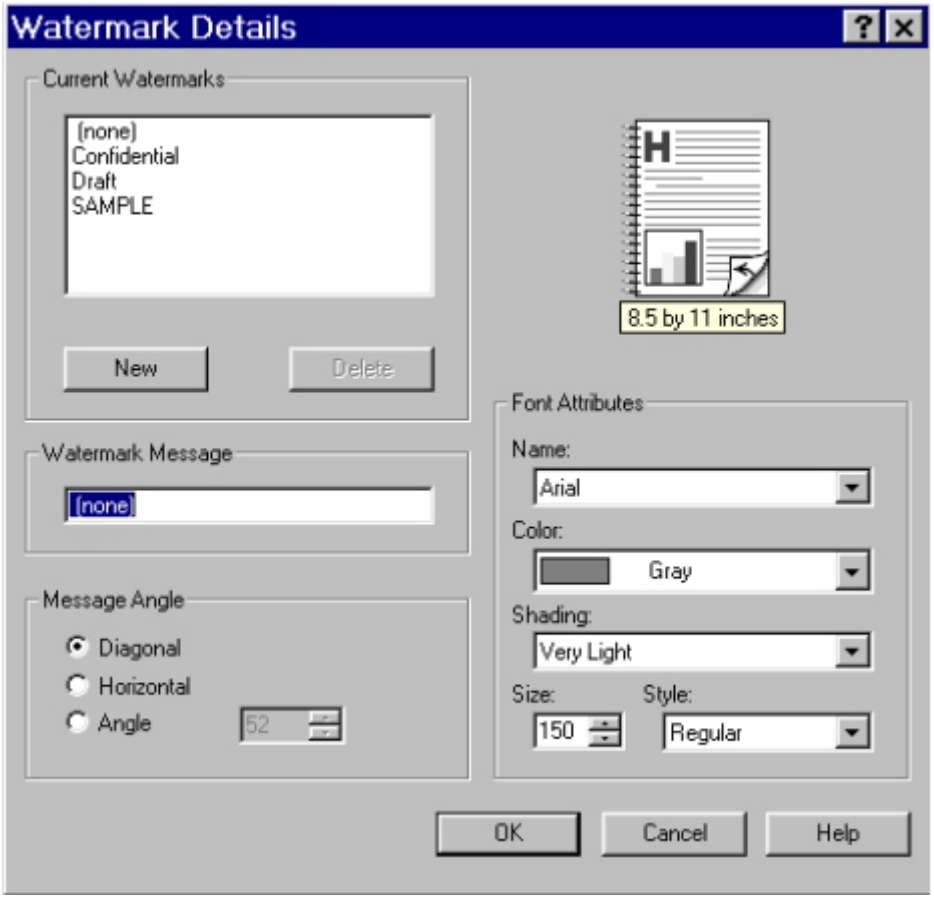
The drop-down menu shows alphabetically sorted watermarks currently available on the system, plus the string **{none},** which represents that no watermark is selected. This is the default setting. Any watermark selected from this list is displayed in the preview image.

When **First Page Only** is selected, the watermark is printed only on the first page of the document. The **First Page Only** check box is disabled when the current Watermark selection is **(none**).

Watermarks are applied to logical pages. For example, when **Pages per Sheet** is set to 4 and **First Page Only** is turned off, there are four watermarks on the physical page (one on each logical page).

Select the **Edit** button to display the **Watermark Details** dialog box.

Figure 54: Watermark Details dialog box



The dialog box shows a preview image and provides options creating new watermark and for controlling the message angle and font attributes.

Click **OK** to accept all changes made in the **Watermark Details** dialog box. However, clicking **Cancel** does not cancel all changes. If you make changes to a watermark, and then select a different watermark or select **New**, all changes made to the previous watermark are saved, and only the current unsaved changes can be canceled.

The **Current Watermarks** group box contains a list of available watermarks, both pre-defined watermarks made available in the driver and any new watermarks you have created. To create a new watermark, click **New**. The new watermark appears in the **Current Watermarks** list and in the **Watermark Message** edit box as **Untitled** until you name it. To name the new watermark, type the selected watermark text in the **Watermark Message** edit box. To delete a watermark, select the watermark in the **Current Watermarks** list and click **Delete**.

NOTE:	You can have no more that 30 watermarks in the **Current Watermarks** list at one time. When the limit of 30 watermarks is reached, the **New** button is disabled, and a Help bubble appears to explain why the button is disabled and how to enable it.

To edit an existing watermark, select the watermark in the **Current Watermarks** list. If you change the **Watermark Message** for that watermark, you are, in effect, creating a new watermark.

The **Watermark Message** is also the name that identifies the watermark in the **Current Watermarks** list, except when more than one watermark has the same message. For example, you might want several different watermarks with the message DRAFT, each with a different font or size. When this occurs, the string is appended with a space, a pound sign, and a number. The number two is used first, but if the resulting name is also in the list, then the number increases until the name is unique.

The controls in the **Message Angle** group box let you print the watermark in a diagonal, horizontal, or angle (custom) orientation to the page's text. The default is **Diagonal**. While all three settings automatically center the watermark string within the page, these settings affect only the angle of the string placement. **Diagonal** places the text along a line that spans the lower-left to upper-right corners of the page.

The **Font Attributes** group box provides controls to let you change the font and the color, shading, size, and style of the font.

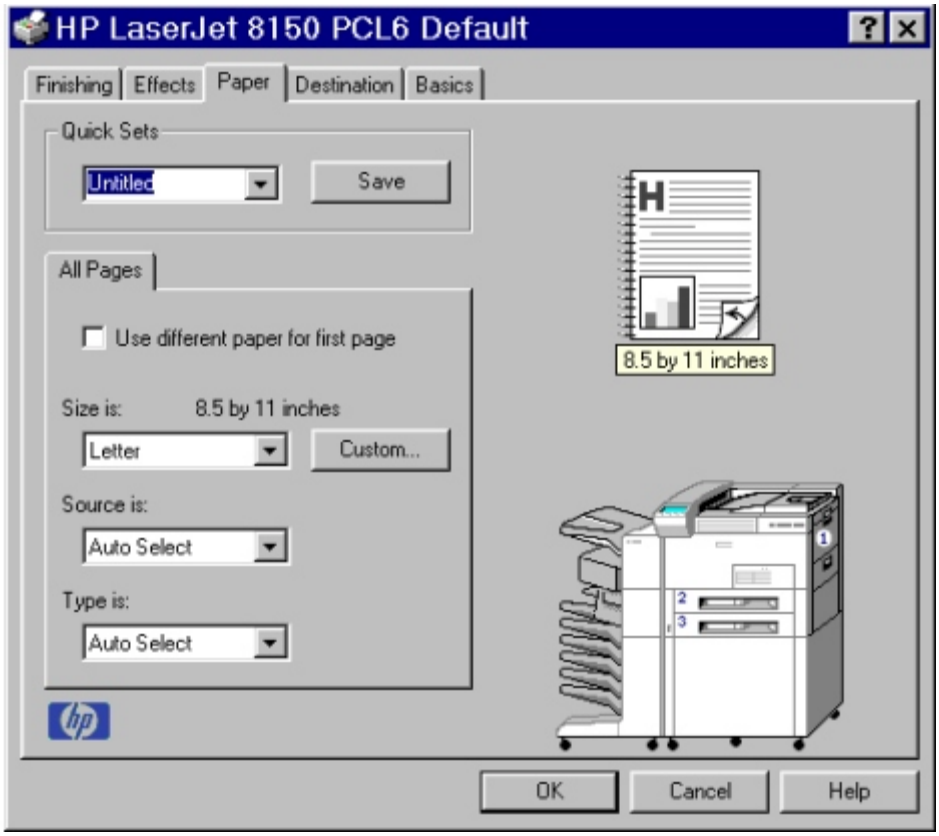
The **Name** drop-down menu lists TrueType fonts currently installed on the system. For the HP LaserJet 8150 series printers, the only **Color** selection is Gray. The **Shading** drop-down menu offers a range of shades from **Lightest** to **Darkest**. The **Size** selection allows sizes from 1 to 999 points. The **Style** drop-down menu offers a choice of regular, bold, italic, and bold italic.

The default settings for watermarks on the HP LaserJet 8150 printer are Arial, Regular Style, 150 point, Gray, and Very Light shading.

Paper tab features

The **Paper** tab lets you specify the size, type, and source of the media. You can also use the **Paper** tab to define a custom paper size. If desired, you can indicate different paper selection choices for the first page and back cover of the document.

Figure 55: The Paper tab



All Pages

The controls on this tab are contained in an **All Pages** mini-tab. As the name implies, this means that the settings specified on that tab apply to all pages of the document. However, when you select the **Use different paper for first page** check box, the mini-tab becomes three mini-tabs. These three mini-tabs are:

- **First Page**, which contains the same controls as **All Pages.**
- **Other Pages**, which contains different controls, as noted in the following sections.
- **Back Cover**, which also contains different controls, as noted in the following sections.

Other Pages

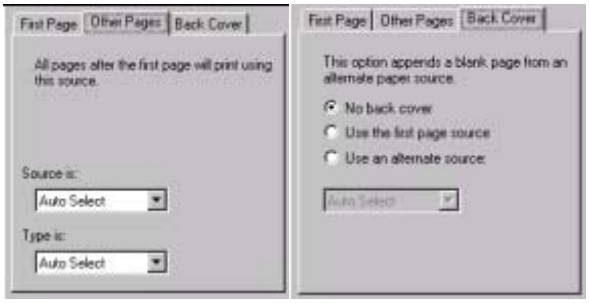
The **Other Pages** mini-tab allows you to select an alternate media type or source for the pages of a document following the first page. The choices and defaults for **Source is:** and **Type is:** are the same as for **First Page**.

Back Cover

The **Back Cover** mini-tab allows you to select an alternate media source (or the same source as **First Page**) from which a blank page is drawn and placed after the last page of a document. The mini-tab contains three radio buttons and a drop-down menu. **No Back Cover** is selected as the default, with the drop-down source selection box disabled. Selecting **Use an Alternate Source** activates the drop-down menu. The drop-down menu value defaults to the same source as that chosen for the **First Page** tab. Selecting **Use the First Page Source** changes the drop-down value to match the first page, if necessary, but the drop-down menu remains inactive.

When the **Back Cover** tab is active, selecting **No Back Cover** deactivates the drop-down menu, but does not change its value. No help bubble is available for the inactive drop-down menu. The settings will revert to defaults when **Use Different Paper for First Page** is selected again.

Figure 56: Other pages (left) and back cover (right)



Size is:

This feature is actually two controls: a drop-down menu that contains all the supported media sizes (including any user-defined custom sizes) and a text label that indicates the dimensions of the selected size.

Moving the pointer over the text label causes the arrow to change to a gloved hand, which indicates that the area beneath the pointer is selectable. Selecting here toggles the units of measure between inches and millimeters, offering the same options on the dimensions label in the preview image. Selecting a new size from the drop-down menu updates the media dimensions text label as well as the preview image. Changing the orientation also updates the dimensions text label.

Size can be specified only for the first page or for all pages. On the **Other Pages** and **Back Cover** tabs, the **Size** drop-down menu does not appear because the media size must be consistent for all pages of the job. Certain applications can override this command and specify different media sizes within a single document. Any change in the media size selection causes the **Booklet Printing** feature to be turned off.

The following table shows the standard paper sizes for the driver as they appear in the list.

NOTE: The following table lists the media size order for Windows NT 4.0. The order of the list may vary for other operating systems. The list will contain all the sizes shown below, and might contain sizes from other drivers.

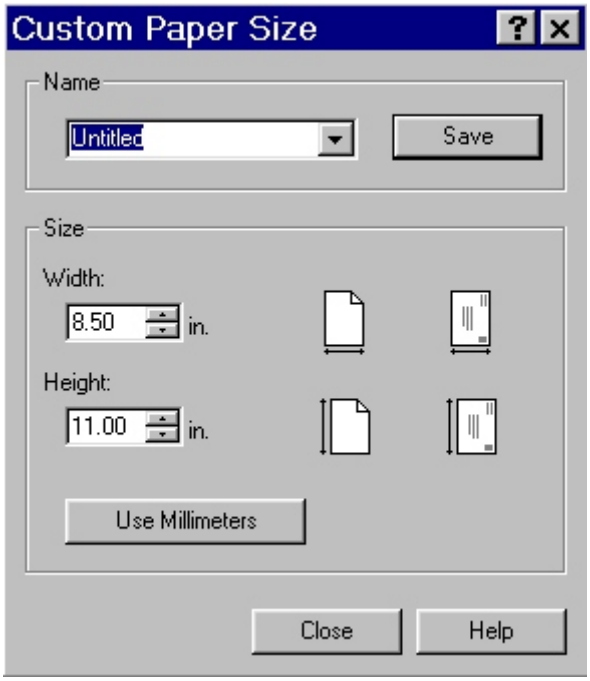
Size is:	Width	Height
Letter	216 mm (8.5 inches)	279 mm (11.0 inches)
Legal	215.9 mm (8.5 inches)	355.6 mm (14.0 inches)
Executive	184 mm (7.25 inches)	267 mm (10.5 inches)
A3	297 mm (11.69 inches)	420 mm (16.54 inches)
A4	210 mm (8.26 inches)	297 mm (11.70 inches)
A5	148 mm (5.83 inches)	210 mm (8.27 inches)
B4 (JIS)	257 mm (10.12 inches)	364 mm (14.33 inches)
B5 (JIS)	182 mm (7.17 inches)	257 mm (10.12 inches)
11 x 17	279.4 mm (11.00 inches)	431.8 mm (17.00 inches)
Envelope #10	104.9 mm (4.13 inches)	241.3 mm (9.50 inches)
Envelope DL	110 mm (4.33 inches)	220 mm (8.66 inches)
Envelope C5	162 mm (6.38 inches)	229 mm (9.02 inches)
Envelope B5	176 mm (6.93 inches)	250 mm (9.84 inches)

Size is:	Width	Height
Envelope Monarch	98.4 mm (3.88 inches)	190.5 mm (7.50 inches)
Double Post Card	148 mm (5.83 inches)	200 mm (7.87 inches)
Executive (JIS)	215.9 mm (8.50 inches)	330.2 mm (13.00 inches)
16K	196.85 mm (7.75 inches)	273 mm (10.75 inches)
8K	273 mm (10.75 inches)	393.7 mm (15.5 inches)
11 x 17 Oversize	297 mm (11.69 inches)	449 mm (17.69 inches)

Custom ...

The **Custom Paper Size** dialog box appears when you click the **Custom …** button on the **Paper** tab. The following illustration shows the initial appearance of the **Custom Paper Size** dialog box.

Figure 57: The Custom Paper Size dialog box



When the **Custom Paper Size** dialog box appears, the drop-down menu in the **Name** group contains one of two things, depending on the current paper size selection in the **Paper** tab:

- If the paper size selection is a custom size previously defined, then the drop-down menu contains the name of that custom size.
- If the paper size selection is a standard paper size, then the drop-down menu shows the default name for a custom paper size, **Untitled**.

NOTE:	In Windows 9x and Windows Me, the custom paper size entry and storage are case sensitive; For example, the names “Big” and “BIG” can co-exist. However, in Windows NT 4.0 and Windows 2000, the custom paper size entry is case sensitive but storage is not. Therefore, “Big” and “BIG” cannot co-exist. The new name is compared only against the list of user-defined custom paper names, and not against the standard paper size names.

The complete set of titles for this button and the specific characteristics that determine its title and behavior are discussed in the dynamic command button section

Name drop-down menu

The **Name** drop-down menu displays the name of the last selected custom paper size, allows you to enter new names for custom paper sizes, and allows you to select from the list of currently defined custom paper sizes.

The name displayed in the **Name** drop-down menu is one of three things, depending on the following conditions:

- If a saved custom paper size has been selected from the drop-down menu and the other controls in the dialog box have not been changed since then, the **Name** drop-down menu displays the name of the last selected custom paper size.
- If the width or height controls have been changed since a custom size was selected or saved, or if a saved paper size has just been deleted, then the **Name** drop-down menu displays the default name of Untitled.
- If a new name has been typed into the **Name** drop-down menu for the purpose of saving a new size or renaming an existing size, then that new name will remain in the drop-down menu display until a saved custom paper size has been selected from the drop-down menu.

If a new name is typed into the **Name** drop-down menu, but the **Save** button is not clicked, you should be able to change the width and height values without losing the name. However, if a saved paper size name is selected from the drop-down menu, any unsaved name or size values is lost without warning, and replaced by the values of the selected custom paper size.

Dynamic command button

The button located to the right of the **Name** drop-down menu has three possible labels: **Save**, **Delete**, and **Rename**.

- **Save** is the button title whenever the height and width values have been changed since the last save or the selection of an existing custom paper size. Selecting the button causes the name in the **Name** drop-down menu to be compared against each of the saved names. If a duplicate is found, a dialog box appears asking you if it is okay to replace the existing item. If you select **Yes**, the old item is updated with the new values. If you select **No**, the driver returns to the **Custom Paper Size** dialog box for you to type a different name. Whenever the command button has the **Save** title, it is the default button.

NOTE: In Windows 9*x*, the custom paper size entry and storage are case sensitive; “Big” and “BIG” can co-exist. However, in Windows NT 4.0 and 2000, the custom paper size entry is case sensitive but storage is not. Therefore, “Big” and “BIG” cannot co-exist.

The new name is compared only against the list of user-defined custom paper names, and not against the standard paper size names.

- **Delete** is the button title whenever the name of an existing (previously saved) custom paper size appears in the **Name** drop-down menu, such as immediately after selecting an item from the drop-down menu or selecting the **Save** button. Selecting the **Delete** button causes the saved custom paper size to be deleted, after which the **Name** drop-down menu changes to **Untitled**, the height and width controls are unchanged, and the button title changes to **Save**.
- **Rename** is the button title when you type something into the **Name** drop-down menu after selecting an existing custom paper size from the drop-down menu. If no duplicate is found, the name of the stored custom paper size changes to match the contents of the **Name** drop-down menu. Whenever the command button has the **Rename** title, it is also the default button.

The following state table illustrates the relationships between the **Name** drop-down menu, the command button, and the actions that take users from one state to another.

State	Drop-down menu contents	Button label	Action	Next State
1	Untitled	Save	Click **Save**.	3
			Type something into **Name** drop-down menu.	2
			Change the width or height values.	1
			Select a saved item from the drop-down menu.	3
2	<user-typed text>	Save	Click **Save**.	3
			Type something into **Name** drop-down menu.	2
			Change the width or height values.	2
			Select a saved item from the drop-down menu.	3
3	<name of saved item>	Delete	Click **Delete**.	1
			Type something into **Name** drop-down menu.	4
			Change the width or height values.	1
			Select a saved item from the drop-down menu.	3
4	<user-typed text>	Rename	Click **Rename** (when the name is unique).	3
			Click **Rename** (when the name is a duplicate).	4
			Type something into the **Name** drop-down menu.	4
			Change the width or height values.	2
			Select a saved item from the drop-down menu.	3

Width and height controls

The width and height values can be changed either by typing numeric strings into the edit boxes, or by selecting the up and down arrows.

Any entry that is greater than the width and height control maximum limits (see below) will round down to the maximum valid entry, while any entry that is smaller than the width and height control minimum limits (see below) will round up to the minimum valid entry.

NOTE: If units are in millimeters, the custom paper size range minimum is the limit rounded up to the nearest whole millimeter. Custom paper size range maximum is the limit rounded down to the nearest whole millimeter. Any non-numerical entry will revert to the last valid entry. Width and height entries are validated when the focus has changed.

The resolution of each control is one tenth of an inch or one millimeter, depending on the current measurement units. Clicking the up and down arrows increases or decreases the current value by the increment amount (within the allowed range of values). The computer determines the rate at which the values change.

Unit indicator labels change dynamically to indicate inches or millimeters, depending on the measurement units the driver is currently using. To change measurement units, click the **Measurement Units** button.

Custom width and height control limits

The minimum paper size for the HP LaserJet 8150 printer is 98mm by 191mm (3.87 inches by 7.5 inches) and the maximum is 297 mm by 450 mm (11.7 inches by 17.7 inches). The following table summarizes paper size limits for each paper-handling device.

Media Source or Paper Handling Accessory	Minimum Size - Width by Height	Maximum Size - Width by Height
Tray 1 (multi-purpose)	98mm by 191mm (3.87 inches by 7.5 inches)	297mm by 450mm (11.7 inches by 17.7 inches)
Optional custom media tray (Tray 3 or Tray 5)	148mm by 210mm (5.83 inches by 8.26 inches)	297mm by 432mm (11.7 inches by 17.0 inches)

Icons

The paper and envelope icons visually define width and height.

Measurement Units button

Like the dynamic command button previously described, the **Measurement Units** button is also multi-titled, although its function is always to toggle the unit of measurement between standard (inches) and metric (millimeters) units of measurement.

Close button

The **Close** button closes the **Custom Paper Size** dialog box according to the logic in the table below. In all cases, any custom paper sizes successfully saved (and not renamed or deleted) while the dialog box is open will remain in the paper size list in the **Paper** tab. The following table lists options that appear when you click the **Close** button.

If the drop-down menu contains …	And the button says …	Then it will do this when the Close button is clicked
Untitled	Save	The dialog box closes, but you lose the changes that were not saved. The current paper size remains the same as it was when the Custom button was selected.
<user-typed text>	Save	The dialog box closes, but you lose the changes that were not saved. The current paper size remains the same as it was when the Custom button was selected.
<name of saved item>	Delete	The dialog box closes, and the current paper size is set to that which was last displayed in the drop-down menu.
<user-typed text>	Rename	The dialog box closes, but you lose the changes that were not saved. The current paper size remains the same as it was when the Custom button was selected.

Source Is:

The **Source Is:** drop-down menu shows the input trays available according to **Configure** tab settings. The minimum list contains:

- Auto Select
- Manual Feed
- Tray 1
- Tray 2
- Tray 3

The default setting is **Auto Select**, which allows the printer firmware to select the media source. Any optional paper trays that are installed through the **Configure** tab are also shown here. For the HP LaserJet 8150 series printers, the optional input devices available from other companies are:

- 2000-sheet input tray (tray 4)
- 2 by 500-sheet input tray (trays 4 and 5)

If a conflict exists among paper source, size, or type, and you choose to keep the conflicting settings, the settings are processed in the following order: paper size, paper type, paper source.

The following tables provide information on paper-handling constraints for the HP LaserJet 8150 series printers.

Feature	Constraints							
Media Types (PS string)	**Tray 1**	**Tray 2**	**Tray 3**	**Tray 4 HCI**	**Tray 4 MIT**	**Tray 5 MIT**	**XY Tray**	**Envelope Feeder**
Plain	Y	Y	Y	Y	Y	Y		Y
Preprinted	Y	Y	Y	Y	Y	Y		Y
Letterhead	Y	Y	Y	Y	Y	Y		Y
Transparency	Y	N	N	N	N	N		N
Prepunched	Y	Y	Y	Y	Y	Y		Y
Labels	Y	N	N	N	N	N		N
Bond	Y	Y	Y	Y	Y	Y		Y
Recycled	Y	Y	Y	Y	Y	Y		Y
Color	Y	Y	Y	Y	Y	Y		Y
Cardstock*	Y	Y*	Y*	Y*	Y*	Y*		Y
Rough	Y	Y	Y	Y	Y	Y		Y

* 16 to 28 lbs.

Media types	Duplexing unit	Face down	Face up*	MBM/7	MBM/8	MBM5s (with Stapler)	3000-sheet Stacker	3000-sheet Stacker/ Stapler	Duplo Booklet maker
Plain	Y	Y	Y	Y	Y	Y	Y	Y	Y
Preprinted	Y	Y	Y	Y	Y	Y	Y	Y	Y
Letterhead	Y	Y	Y	Y	Y	Y	Y	Y	Y
Transparency	N	Y	Y	N	N	N	N	N	N
Prepunched	Y	Y	Y	Y	Y	Y	Y	Y	Y
Labels	N	Y	Y	N	N	N	N	N	N
Bond	Y	Y	Y	Y	Y	Y	Y	Y	Y
Recycled	Y	Y	Y	Y	Y	Y	Y	Y	Y
Color	Y	Y	Y	Y	Y	Y	Y	Y	Y
Card Stock	Y	Y	Y	N	N	N	N	N	N
Rough	Y	Y	Y	Y	Y	Y	Y	Y	Y

*Includes Face up bin in the optional (c-link) devices

Feature / Attributes					Constraints							
Paper Sizes	**Width**	**Height**	**PS PageSize**	**PCL5 value**	**Tray 1**	**Tray 2**	**Tray 3**	**Tray 4 HCI**	**Tray 4 MIT**	**Tray 5 MIT**	**XY Tray**	**Envelope Feeder**
Letter*	216mm (8.5 inches)	279mm (11.0 inches)	[612 792]	2	Y	Y	Y	Y	Y	Y		N
Legal	216mm (8.5 inches)	356mm (14.0 inches)	[612 1008]	3	Y	Y	Y	Y	Y	Y		N
Executive	184mm (7.25 inches)	267mm (10.5 inches)	[522 756]	1	Y	N	N	N	N	N		N
A5	148.0mm (5.83 inches)	210.0mm (8.27 inches)	[420 595]	25	Y	N	N	N	N	N		N
A4*	210.0mm (8.27 inches)	297.0mm (11.69 inches)	[595 842]	26	Y	Y	Y	Y	Y	Y		N
A3	297.0mm (11.69 inches)	420.0mm (16.53 inches)	[842 1191]	27	Y	N	Y	Y	N	Y		N
Envelope #10	105mm (4.12 inches)	241mm (9.5 inches)	[297 684]	81	Y	N	N	N	N	N		Y
Envelope DL	110mm (4.33 inches)	220mm (8.66 inches)	[312 624]	90	Y	N	N	N	N	N		Y
Envelope C5	162mm (6.38 inches)	229mm (9.01 inches)	[459 649]	91	Y	N	N	N	N	N		Y
Envelope B5	176mm (6.93 inches)	250mm (9.84 inches)	[499 708]	100	Y	N	N	N	N	N		Y
Envelope Monarch	98mm (3.87 inches)	190mm (7.5 inches)	[279 540]	80	Y	N	N	N	N	N		Y
11 x 17	279mm (11.0 inches)	432mm (17.0 inches)	[792 1224]	6	Y	N	Y	Y	N	Y		N

Feature / Attributes					Constraints							
Paper Sizes	**Width**	**Height**	**PS PageSize**	**PCL5 value**	**Tray 1**	**Tray 2**	**Tray 3**	**Tray 4 HCI**	**Tray 4 MIT**	**Tray 5 MIT**	**XY Tray**	**Envelope Feeder**
B4 (JIS)	257.0mm (10.12 inches)	364.0mm (14.33 inches)	[729 1032]	46	Y	Y	Y	Y	Y	Y		N
B5 (JIS)	182.0mm (7.16 inches)	257.0mm (10.12 inches)	[516 729]	45	Y	N	N	N	N	N		N
Double Post Card	200.0mm (5.83 inches)	148.0mm (7.87 inches)	[420 567]	72	Y	N	N	N	N	N		Y
16K	197mm (7.75 inches)	273mm (10.75 inches)	[558 774]	17	Y	N	N	N	N	N		N
8K	273mm (10.75 inches)	394mm (15.5 inches)	[774 1116]	19	Y	N	N	N	N	N		N
Oversize 11.7 x 17.7	297mm (11.7 inches)	450mm (17.7 inches)	[842 1274]	101	Y	N	N	N	N	N		N
Custom	Min: 98mm (3.87 inches) Max: 297mm (11.7 inches)	Min: 191mm (7.5 inches) Max: 450mm (17.7 inches)	NA	101	Y	N	N	N	N	N		N

* Long-edge feed (rest are Short-edge feed)

Feature	Constraints/Remarks									
Paper Sizes	**Duplexing unit**	**Face Down**	**Face Up****	**MBM/7**	**MBM/8**	**MBM5s Face Down bins**	**MBM5s Stapler bin**	**3000-sheet Stacker*****	**3000-sheet Stapler/ Stacker*****	**Duplo Booklet maker**
Letter*	Y	Y	Y	Y	Y	Y	Y	Y	Y[1]	N
Legal	Y	Y	Y	Y	Y	Y	N	Y	Y	Y
Executive	N	Y	Y	N	Y	Y	N	Y	Y	N
A5	N	Y	Y	N	Y	Y	N	Y	Y	N
A4*	Y	Y	Y	Y	Y	Y	Y	Y	Y[1]	N
A3	Y	Y	Y	N	Y	Y	N	Y	Y[2]	Y
Envelope #10	N	Y	Y	N	N	N	N	N	N	N
Envelope DL	N	Y	Y	N	N	N	N	N	N	N
Envelope C5	N	Y	Y	N	N	N	N	N	N	N
Envelope B5	N	Y	Y	N	N	N	N	N	N	N
Envelope Monarch	N	Y	Y	N	N	N	N	N	N	N
11 x 17	N	Y	Y	N	Y	Y	N	Y	Y[2]	Y
B4 (JIS)	Y	Y	Y	N	Y	Y	N	Y	Y[2]	Y
B5 (JIS)	N	Y	Y	N	Y	Y	N	Y	Y	V
Double Post Card	N	Y	Y	N	N	N	N	N	N	N
16K	N	Y	Y	N	N	N	N	Y	Y	N

Feature	Constraints/Remarks									
Paper Sizes	**Duplexing unit**	**Face Down**	**Face Up****	**MBM/7**	**MBM/8**	**MBM5s Face Down bins**	**MBM5s Stapler bin**	**3000-sheet Stacker*****	**3000-sheet Stapler/ Stacker*****	**Duplo Booklet maker**
8K	N	Y	Y	N	N	N	N	Y	Y[2]	Y
Executive (JIS)	N	Y	Y	N	N	N	N	Y	Y	Y
Oversize 11.7 x 17.7	N	Y	Y	N	N	N	N	Y	Y	N
Custom	N	Y	Y	N	Min: 210 by 297mm (8.26 by 11.7 inches) Max: 216 by 356mm (8.5 by 14 inches)	Min: 210 by 297mm (8.26 by 11.7 inches) Max: 216 by 356mm (8.5 by 14 inches)	N	Min: 100 by 148mm (3.94 by 5.83 inches) Max: 279 by 432mm (11 by 17 inches)	Min: 100 by 148mm (3.94 by 5.83 inches) Max: 279 by 432mm (11 by 17 inches)	

* Long-edge feed (rest are Short-edge feed)
** Includes Face-up bin in the optional (c-link) device
***These devices support a longer maximum length than the HP LaserJet 8150 engine
[1] Angled staple available when viewing orientation is portrait
[2] Angled staple available when viewing orientation is landscape

Paper source commands

The PCL 5e escape sequence for paper source is Esc&l#H. The table below shows values of #.

Paper source	PCL 5e
Tray 1	4
Tray 2	1
Tray 3	5
Tray 4	20
Tray 5	21
Auto Select	7
Manual Feed (paper)	2
Manual Feed (envelope)	3
Envelope Feeder	6
External trays	22-69

Type Is:

The **Type Is:** drop-down menu shows all the paper types supported by the HP LaserJet 8150 printer, as well as any user-defined types created by a printer administrator. The default setting is **Auto Select**, which allows the application to select the paper type.

No mechanism exists for manually adding custom paper types from the driver. Custom sizes can be added only using the bidirectional communication mechanism, so they must already exist in the printer when the bidirectional query occurs. If bidirectional communication is enabled, then the information returned is an updated list of paper types. If bidirectional communication is not enabled, then the driver looks for custom paper types saved from a previous bidirectional communication query, and uses those. Otherwise, no custom paper types are accessible through the driver.

The standard types that appear in the lists are:

- Auto select
- Bond
- Cardstock
- Color
- Labels
- Letterhead
- Plain
- Preprinted
- Prepunched
- Recycled
- Rough
- Transparency

Paper Type commands

The PCL 5e escape sequence for paper type is Esc&n#Wd [operation][string], where operation byte 100 and string ('d') are as follows. The table below shows values of #.

Paper type	#
Bond	5
Cardstock	10
Color	6
Labels	7
Letterhead	11
Plain	6
Preprinted	11
Prepunched	11
Recycled	9
Rough	6
Transparency	13

For example, to select preprinted paper, the command is:

Esc&n11WdPreprinted

Printer image

The bitmap image in the lower-right portion of the **Paper** tab represents the current physical configuration of the printer and corresponds to its configuration data, obtained either automatically through bidirectional communication or manually configured. It should look the same as the image that appears in the same location on the **Destination** tab and the **Configure** tab.

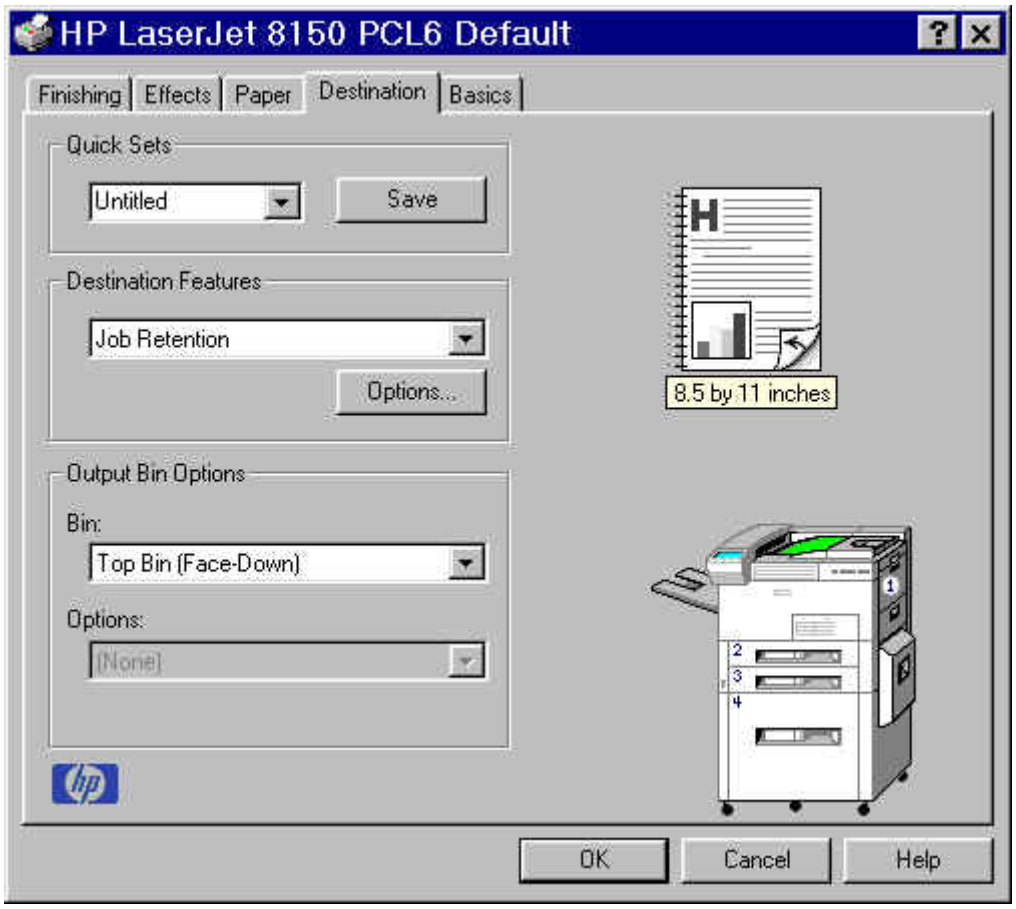
On the **Paper** tab, the printer image contains hot spots where you can select a paper source. When the pointer moves over a hot spot, the arrow reverts to the gloved hand used in the bubble Help, the preview image, and other areas. The current paper source, whether selected from the drop-down menu or from a hot spot, is highlighted in bright green on the printer bitmap. The following points are worth noting:

- **Auto Select** does not have a corresponding area to highlight on the bitmap.
- Selecting manual feed or tray 1 highlights the same part of the bitmap.
- Selecting on the area that represents Tray 1 in the bitmap will always select tray 1. **Manual Feed** cannot be selected by selecting the bitmap.
- On the **Paper** tab, only input trays have hot spots and can be highlighted. Output bins must be selected from the **Destination** tab.

Destination tab features

The **Destination** tab provides options for job retention and output bins.

Figure 58: The Destination tab



Destination Features

The **Destination Features** group box provides controls for job retention. This group box is only visible if **Printer Hard Disk** or **Job Retention Enabled** are selected in the **More Configuration Options** dialog box available on the **Configure** tab.

Hardware configuration and availability of Job Retention options

NOTE:	The Job Retention in RAM feature is not supported under Windows 3.1*x*.

The **Job Retention** options available to you will depend on whether your printer has an optional hard disk installed. Some of the **Job Retention** options require a printer hard disk (an optional HP EIO disk drive). However, a new feature of the HP LaserJet 8150 printer, called **Job Retention in RAM**, allows you to use some of the job retention options without installing a printer hard disk.

The **Proof and Hold** and **Private Job** options are available under the **Job Retention in RAM** feature, and do not require the installation of a hard disk.

The **Quick Copy** and **Stored Job** options require the installation of a printer hard disk. In order to use all four of the job retention options the printer must have the optional hard disk installed, the **Printer Hard Disk** checked on the **More** dialog box of the **Configure** tab, and the print driver configured to use hard disk storage.

Configuring the printer driver for a printer hard disk

If the print driver on your computer is not yet configured to use the hard disk, follow these simple steps:

NOTE:	These steps must be completed for each driver.

1. Double-click on the **My Computer** icon. This opens the **My Computer** window.
2. Open the **Printers** window.
3. Right-click on the printer icon. This opens a drop-down menu. Select **Properties**. The **Properties** dialog box appears.
4. Click on the **Configure** tab.
5. Click **Other Options**.
6. Under **Storage**, select the **Printer Hard Disk** check box.
7. Close all dialog boxes by clicking **OK**.

Your PCL printer driver is now configured to use the hard disk and job retention features of your Hewlett-Packard LaserJet 8150 Printer.

Job retention modes

NOTE:	The Job Retention in RAM feature is not supported under Windows 3.1*x*.

Using the HP LaserJet 8150's job retention feature, you can store documents in the printer's memory and then control the printing of these documents using the printer's control panel. This feature is intended to provide greater flexibility, convenience, security, and cost savings.

Once the job retention feature has been enabled, you can access its features in the **Destination** tab of the printer driver.

NOTE:	The job retention options available to you will depend on whether your printer has an optional hard disk installed. For details, see "Hardware configuration and availability of Job Retention options."

The HP LaserJet 8150 printer offers the following job retention options:

Off: This option turns the Job Retention feature off (it is disabled), which means the print job will not be stored in the printer.

Quick Copy: This option is available only when a printer hard disk is installed. **Quick Copy** stores a copy of a printed job on the hard disk, and allows you to print additional copies of a print job using the control panel. The number of quick copy print jobs that can be stored in the printer is set from the printer's control panel.

NOTE:	The printer configuration can be set to hold a maximum of 50 quick copy or proof and hold jobs. The number is set on the printer control panel in the **Configuration** menu, and the default is 32. When this preset limit is reached, a newer document will overwrite the oldest. Also, a document that has the same user and job name as one already stored on the hard disk will overwrite the existing document. Quick copy jobs are deleted if the printer’s power is removed.

Proof and Hold: This option allows you to print and check the first copy of a print job before printing the remaining copies. If the document prints correctly, you can print the remaining copies of the print job from the printer's control panel. The number of proof and hold print jobs that can be stored in the printer is set from the printer's control panel.

Proof and Hold will store the print job on the printer hard disk or in printer RAM memory, and print only the first copy of the job. You must release subsequent copies from the control panel.

NOTE:	The printer configuration can be set to hold a maximum of 50 quick copy or proof and hold jobs. The number is set on the printer control panel in the configuration menu, and default is 32. When this preset limit is reached, a newer document will overwrite the oldest. Also, a document that has the same user and job name as one already stored will overwrite the existing document. Proof and hold jobs are deleted if the printer’s power is removed.

Private Job: This option allows you to send a print job directly to the printer's memory and can be printed only after you enter a personal identification number (PIN) in the printer's control panel. (You can set the PIN in the **Print** dialog box.) After the job is printed, the printer removes it from the printer's memory. This feature is useful when you are printing sensitive or confidential documents you do not want to leave in an output bin after printing.

Private Job will store the print job on the hard disk or in printer RAM memory, and will release it only after you type in the personal identification number (PIN) on the printer’s front panel. Selection of **Private Job** activates the **PIN** field, and a PIN number must be entered to complete the selection.

Once released for print, the private job is immediately deleted from the printer. If more copies are desired, it will be necessary to reprint the job from the application. If you send a second private job to the printer with the same user name and job name as an existing private job (and you have not released the original job for printing), the second job will overwrite the older job, regardless of the PIN. Private jobs are deleted if the printer’s power is removed.

Stored Job: This option is available only when a printer hard disk is installed. **Stored Job** allows you to send a print job directly to the printer's hard disk. The print job will be stored in the printer as if it is an electronic file cabinet. After the print job is stored in the printer's hard disk, you can print the job from the printer control panel. Nothing will be printed until the job is requested from the printer control panel.

The stored job remains on the printer until it is deleted or overwritten by a document with the same user and job names. Stored jobs remain on the printer's hard disk when power is interrupted. Use this feature for forms and other common or shared documents.

A stored job can be handled in two ways, in either private or public. A private stored job allows you to send a print job directly to the printer's memory and can be printed only after you enter a personal identification number (PIN) in the printer control panel. (You can set the PIN in the **Print** dialog box.) After the job is printed, the job remains in the printer's memory and can be printed again from the printer control panel. This feature is useful when you are printing sensitive or confidential documents you do not want to leave in an output bin after printing. **Private** mode is initiated by selecting the **Require PIN to Print** check box. In this mode, a PIN entry at the front panel is required to release the job.

The box labeled **PIN** is usually inactive. The **Require PIN to Print** option activates if you select **Stored Job**. If selected, you must enter a PIN to make the stored job private. This generates the commands @PJL SET HOLDTYPE=PRIVATE and @PJL SET HOLDKEY="xxxx" in addition to the stored job commands.

NOTE:	A private stored job is *not* the same as a private job (see above). Private jobs are deleted from the printer's memory after they are printed. Private stored jobs are retained in the printer's memory after printing, but require a PIN to be entered each time it is printed.

Document identifiers used in job retention

When you use a job retention feature, your document is identified in the printer control panel by the following information:

The **User Name** edit box allows you to identify the job at the printer control panel. When the driver is first installed (or when the **Factory Defaults Quick Set** is selected), this string initializes to the empty string (" "), but the dialog box detects this condition and replaces the string with your login name in Windows NT 4.0 and Windows 2000. It replaces it with **UNTITLED** in Windows 98, Windows Me, Windows 95, and Windows 3.1*x*. Restrictions for the **User Name** field are described below.

The **Job Name** is used for specifying a name to identify the job on the printer control panel. When the driver is installed, or when the **Factory Defaults Quick Set** is selected, this string is initialized to the empty string (" "), but the dialog box will detect this condition and replace the string with **UNTITLED**. Restrictions for the job name field are described below.

The **Job Name** and the **User Name** field can contain no more than 16 characters, and are limited to A-Z and 0- 9, because the name is displayed on the printer control panel. If you try to enter a lower-case character, it automatically shifts to upper case. If you try to enter a character with an ASCII code of less than 32 or greater than 126 characters, the character is removed from the edit field, along with all characters that follow it. If you try to enter more than 16 characters, any characters beyond 16 is truncated. When the

dialog box is closed, or the edit box loses focus, an empty string is replaced with **UNTITLED**. In those languages for which **UNTITLED** cannot be translated without the use of invalid characters, the driver will use a string of three dashes. The acceptable characters for job name and user name vary for each operating system. The string must be displayable on the printer control panel.

PIN

Private print jobs are secured by a 4-digit personal identification number (PIN), which you can assign to a print job when you are using the Private Job feature. This number must be entered in the printer control panel before it prints the job. You can choose a predefined PIN or you can also create a custom PIN.

The box labeled **PIN** is usually inactive. Selecting **Private Job** or **Stored Job** along with **Require PIN to Print**, activates the **PIN** box. The **Stored Job/PIN** coupling has a PIN restriction of four ASCII numeric characters (ASCII 0-30 through 0-39). If you enter non-numeric characters, they are removed immediately. If you enter more than four characters, the characters past the fourth are truncated. The field temporarily allows fewer than four digits in the string, but when the edit field loses focus, the zeroes pad the left end until there are exactly four digits. The default initialized value for PIN is 0000 for **Private Job** and Stored Job with **Require PIN to Print** checked.

Accessing Job Retention options when printing

You can access job retention options in the **Destination** tab of the printer driver.

NOTE:	The printer driver installed on your computer must be configured to use the job retention features.

1. Select **Print** from the software application. The **Print** dialog box appears.
2. Click **Properties**. The **Properties** dialog box appears.
3. Click on the **Destination** tab to display the destination options.
4. Select **Job Retention** from the drop-down menu under **Destination Features**.
5. Click **Options**. The **Job Retention Options** dialog box appears.

You can then select one of the job retention options described above by clicking on the appropriate radio button.

NOTE:	These instructions are specific to the Windows NT 4.0, Windows 200, Windows 95 Windows 98, and Windows Me environments using the latest available PCL 6 and PCL 5e drivers. While the basic concepts of job retention are the same for PostScript print jobs, there are significant differences in the driver user interface. Also, there are some limitations in naming and PIN selection.

Releasing stored jobs at the printer

Once you send a print job using job retention, you can release the job to print using the printer control panel.

1. At the printer, press the **Menu** button on the control panel.
2. Use the right arrow to display **Private/Stored** menu.
3. Select **Item** to scroll through the **Private/Stored** jobs.
4. After scrolling to your job, use the **Select** button to choose the print job.
5. Use the **Value+/-** button to choose the number of copies to print.
6. Use the **Select** button to start printing.

Deleting a print job

Sometimes it is necessary to delete a print job from the printer memory or hard disk. This can be done from the printer control panel.

1. Press MENU until PRIVATE STORED JOBS MENU appears.
2. Press ITEM until the job name of the private stored job appears, then press SELECT.
3. Use the –VALUE+ and SELECT keys to enter the PIN for the job.
4. Press –VALUE+ to decrease the number of copies to zero. The control panel will display the number of copies as DELETE.
5. Press SELECT to delete the job.

Output Bin Options

The **Output Bin Options** group box contains a drop-down menu that lets you select from a list of configured output bins. Only output bins configured on the **Configure** tab appear in this drop-down menu.

The HP LaserJet 8150 printer has two default output bins that can be selected in the driver:

- Top Bin (face-down) refers to the main output bin at the top of the printer and is the default setting for the HP LaserJet 8150 printer. Jobs sent to this bin are printed face down. This option is always available, and there are no paper size or type constraints.
- Left Bin (face up) refers to the secondary output bin that extends from the left side of the printer. Jobs sent to this bin are printed face up. This option is always available and there are no paper size or type constraints.

In addition, depending on the bundle and the driver configurations, the HP LaserJet 8150 printer offers the following optional output devices:

- Optional 5-bin mailbox with stapler. Each of the five bins holds up to 250 sheets of paper.
- Optional 7-bin tabletop mailbox. Each of the seven bins holds up to 120 sheets of paper. This device is designed for tabletop printing.
- Optional 8-bin mailbox. Each of the eight bins holds up to 250 sheets of paper.
- Duplo DBM-80 Booklet Maker.
- Optional 3000-sheet stapler/stacker. This single 3000-sheet stacking device provides multi-position stapling for up to 50 sheets of paper per document.
- Optional 3000-sheet stacker. This single 3000-sheet stacking device accommodates up to 3000 sheets of letter-sized paper or 1500 sheets of ledger-sized paper.

Options

The **Options** drop-down menu is inactive.

Printer image

The bitmap image in the lower-right portion of the **Destination** tab screen represents the current physical configuration of the printer according to the driver configuration data (obtained automatically through bidirectional communication, or configured manually through the driver). It should have the same appearance as the image in the same location on the **Paper** tab and the **Configure** tab.

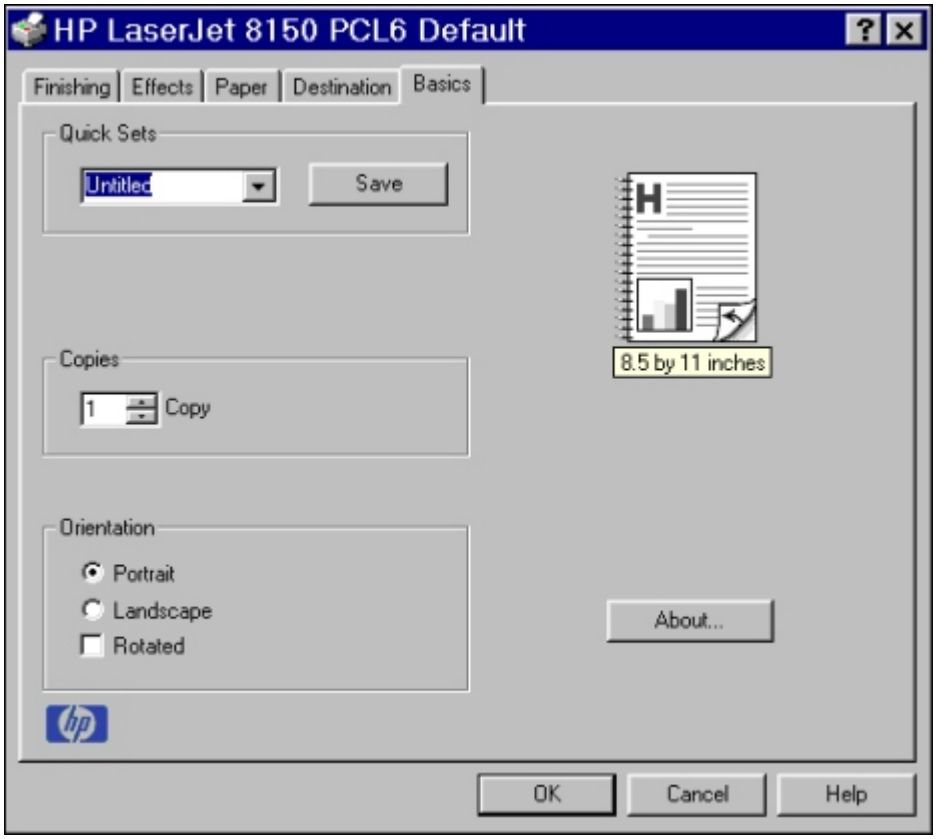
On the **Destination** tab, the printer image contains hot spots for selecting an output bin. When the pointer moves over a hot spot, the arrow reverts to the gloved hand used in the bubble help, the preview image, and other areas. The current output bin is highlighted in a bright green color on the printer bitmap.

NOTE:	On the **Destination** tab, only output bins have hot spots and can be highlighted; source trays must be selected from the **Paper** tab.

Basics tab features

The **Basics** tab provides options for setting the number of copies to be printed and for the orientation of the print job. It also lets you get to information about the driver.

Figure 59: The Basics tab



Copies

The **Copies** feature allows you to specify the number of copies to print.

The number of copies you request appears in the **Copies** box. You can select the number by typing in the box or by using the up and down arrows to the right of the edit box. Valid entries are numbers from 1 to 999. The copies value will not advance from 999 to 1 or change from 1 to 999 when the down arrow is used. Invalid entries into the edit box (such as, non-numerical input, numbers less than 1 or greater than 999) are changed to the last valid value when focus is removed from the control. The default number of copies is 1.

Because applications can also be used to set the desired number of copies, conflicts between the application and the driver can arise. In most cases, the application and the driver communicate, so that the number of copies set in one location (such as, the application) will appear in the other (such as, the driver). For some applications, this communication does not take place, and the copies values are treated independently. For these applications, setting 10 copies in the application and then setting 10 copies in the driver will result in 100 copies (10 x 10) being printed.

Orientation

Orientation refers to the layout of the image on the page, and does not affect the manner in which media is fed into the printer. You can specify the orientation of the print job. The three available orientations are portrait, landscape, and rotated. The default orientation is portrait.

The three orientation options have these configurations:

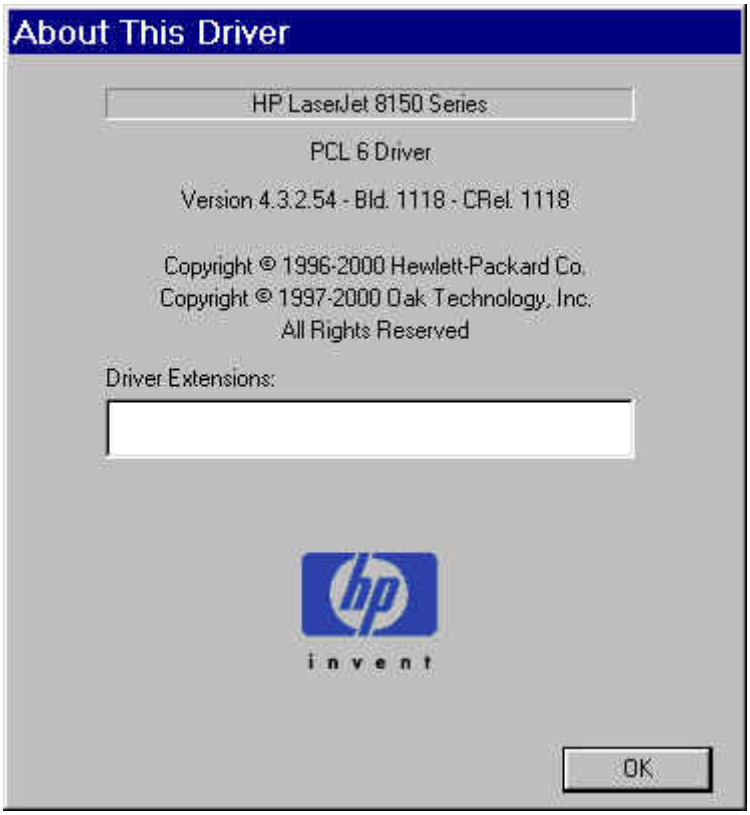
- **Portrait**. The top edge of the document is the shorter edge of the paper.
- **Landscape**. The top edge of the document is the longer edge of the paper.
- **Rotated**. Rotated is a form of landscape or portrait in which the image is rotated 180 degrees. This setting is useful for printing envelopes and when using some third-party paper-handling devices.

Orientation can toggle between portrait and landscape by left-clicking the preview image. If you check **Rotation**, there is no change in the preview image.

About

By selecting the **About** button on the **Basics** tab and selecting the HP logo on any of the driver property pages, the **About** box appears. To close the **About** box, click **OK**, press ESC, press ALT + F4, or press ENTER. Figures 38 and 39 show the **About** box.

Figure 60: The About This Driver dialog box



Driver extensions

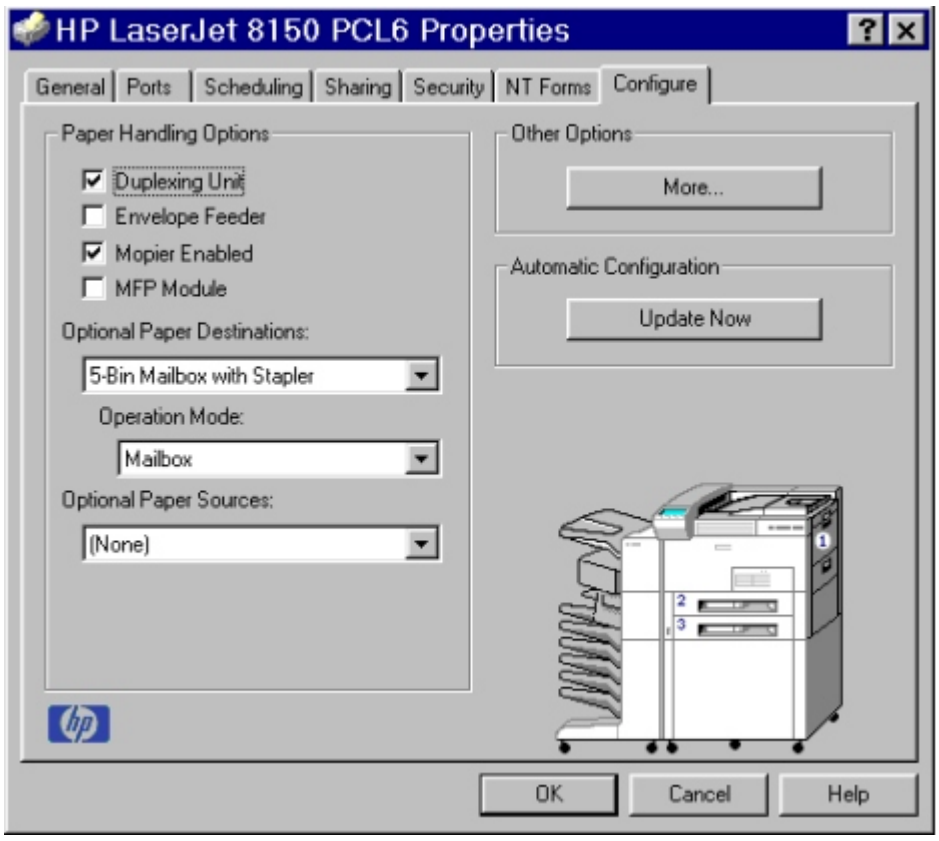
The **Driver extensions** text box provides you with some visibility of any extended driver functionality. It can contain a brief description of the driver extension and a version number.

Configure tab features

The **Configure** tab lets you tell the driver about the hardware configuration of the printer. If bidirectional communication is enabled in a supported environment, set up this tab by clicking the **Update Now** button. If your environment does not support bidirectional communication, the **Update Now** button will be unavailable, so you must manually configure the options on this tab

The **Configure** tab is in the front when you open the driver from the **Printers** folder by selecting **Properties**. When you open the driver from within a program, the **Configure** tab will not be visible, with a few exceptions, such as Excel 5.0 and Corel Chart 4.0. When opened from the **Printers** folder, the **Configure** tab looks like figure 61.

Figure 61: The Configure tab



Paper handling options

The **Paper Handling Options** group box provides options for configuring the majority of paper-handling device features.

Duplexing unit

Select this option if a duplexing unit is installed in the printer. When it is selected, additional controls appear in the **Document Options** group box in the **Finishing** tab. Unlike most other options in this group box, the **Duplexing Unit** option does not affect the printer image because the duplexing unit is contained within the printer.

Envelope feeder

Select this option if an envelope feeder is installed on the printer. The printer image automatically changes to include the envelope feeder.

Mopier enabled

A Mopier is a printer designed by HP to produce multiple, collated, and duplexed (two-sided) copies from a single print job. All documents can be created, controlled, managed, and finished from the desktop, eliminating the extra step of going to a photocopier. The HP LaserJet 8150 series printers support the Transmit Once mopying feature and the Mopier Enabled option is selected by default.

MFP Module

Select this option if an HP Digital Copy module is installed on the printer. The printer image on the tab automatically changes to include the digital copy module.

Optional Paper Destinations

The **Optional Paper Destinations** drop-down menu contains the following options:

- Five-bin mailbox with stapler
- Seven-bin mailbox
- Eight-bin mailbox
- Duplo DBM-80 Booklet Maker
- HP 3000-sheet stapler/stacker
- HP 3000-sheet stacker

NOTE:	If the five-bin mailbox with stapler or the 3000-sheet stapler/stacker is configured on the **Configure** tab, the **Staple** option is included on the **Finishing** tab.

Operation Mode

The **Operation Mode** drop-down menu contains any supported modes for the output device selected in the **Optional Paper Destinations** drop-down menu. The following table shows the operation modes for each optional output device.

Optional paper destinations	Operation modes
5-bin mailbox with stapler	Mailbox Job Separator Stacker Collator
7-bin mailbox	Mailbox Job separator Stacker Collator
8-bin mailbox	Mailbox Job separator Stacker Collator
Duplo DBM-80 Booklet Maker	None (Operation mode drop-down menu unavailable)
3000-sheet stapler/stacker	None (Operation Mode drop-down menu unavailable)
3000-sheet stacker	None (Operation Mode drop-down menu unavailable)

Optional Paper Sources

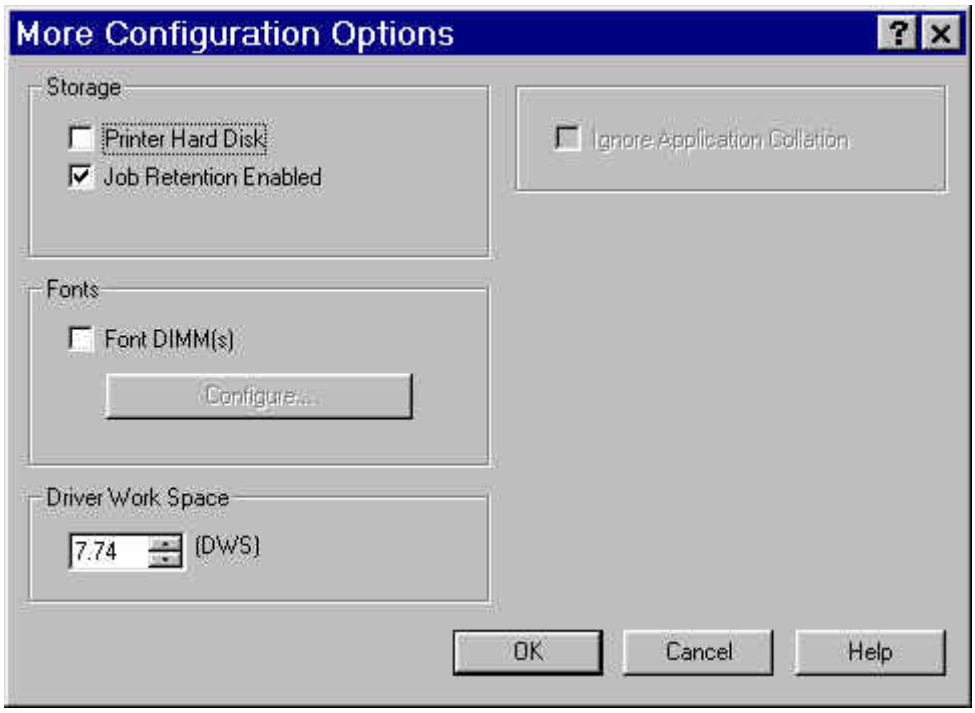
The **Optional Paper Sources** drop-down menu lists all of the available optional paper sources configured for the HP LaserJet 8150 series printer. The complete list of optional paper sources is:

- 2000-sheet input tray (tray 4)
- Two 500-sheet input tray (trays 4 and 5)

Other Options

The **Other Options** group box contains a single **More ...** command button. Selecting the **More ...** button opens the **More Configuration Options** dialog box.

Figure 62: More Configuration Options dialog box



Storage

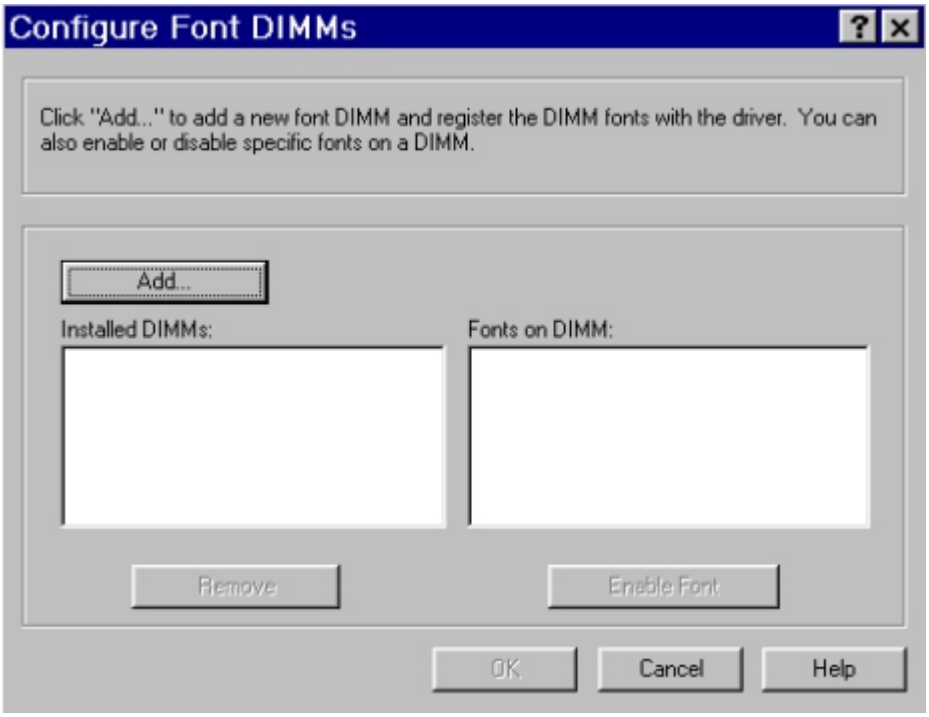
In **Storage**, you can specify whether a printer hard disk is installed or whether **Job Retention** is enabled. **Job Retention** is enabled by default. The printer hard disk control can be set manually or updated by a successful bidirectional communication query using the **Update Now** button in environments supporting bidirectional communication.

If **Job Retention Enabled** is not selected in this dialog box, the **Destination Features** drop-down menu does not appear on the **Destination** tab.

Fonts

The **Fonts** group box contains a **Font DIMM** check box and a corresponding **Configure** button. Selecting the **Font DIMM** check box tells the driver that a Font DIMM is installed, and that stored data is available regarding the fonts on the DIMM. When the check box is selected, the **Configure** button is enabled. Click the **Configure** button to open the **Configure Font DIMMs** dialog box. If the **Font DIMM** check box was not selected when you entered the **More Configuration Options** dialog box, selecting that check box automatically opens the **Configure Font DIMMs** dialog box.

Figure 63: The Configure Font DIMMs dialog box



The **Configure Font DIMMs** dialog box lets you:

- Add up to two fonts DIMMs by clicking the **Add** button.
- Specify a unique font DIMM name.
- Select specific font DIMM data files that contain lists of fonts on specified DIMMs.
- Select one or more installed DIMMs in the **Installed DIMM** list, and based on the selected DIMM(s). The list to the right (**Fonts on DIMM**) will display all of the fonts available on the selected DIMM(s).
- Enable or disable one or more of the selected font(s).

Use the following procedure to configure a font DIMM

1. Make sure that the font DIMM is properly installed on the HP LaserJet 8150 printer.
2. Click **Add**. The **Add Font DIMM** dialog box appears.
3. Click **Browse**. The **Font DIMM Files** dialog box appears.
4. Find and select the appropriate Printer Cartridge Metrics (PCM) file that came with the font DIMM.
5. Click **Open**.

6. If you want, specify a Font DIMM Name in the **Add Font DIMM** dialog box.
7. Click **OK**. The selected .PCM file appears in the **Installed DIMMs:** list. Select the .PCM file to display a list of available fonts in the **Fonts on DIMM:** list.
8. Click **OK** to close the **Add Font DIMM** dialog box. The fonts on the DIMM should now be available on the system.

NOTE: Only the PCL 5e driver supports .PCM files. The PCL 5e driver must be selected as the default printer so the fonts on the font DIMM will appear in the list of available fonts in software applications.

To use font DIMMs with the HP LaserJet 8150 PCL 6 driver, use a .PFM file specifically designed to work with that driver. See the http://www.hp.com Web site for details.

Driver Work Space

The **Driver Work Space** (DWS) option lets you specify the amount of work-space memory available to the printer. In environments supporting bidirectional communication, this option is configured automatically. To manually set **Driver Work Space**, print a configuration page and find the DWS value in the memory section of the configuration page. Then, enter that value in the **Driver Work Space** box in the **More Configuration Options** dialog box. An accurate **Driver Work Space** value optimizes driver performance.

Ignore Application Collation

Selecting **Ignore Application Collation** overrides collation settings in software application print options. This option is set by default. The **Ignore Application Collation** check box is disabled and set to OFF when the **Mopier Enabled** check box is not selected.

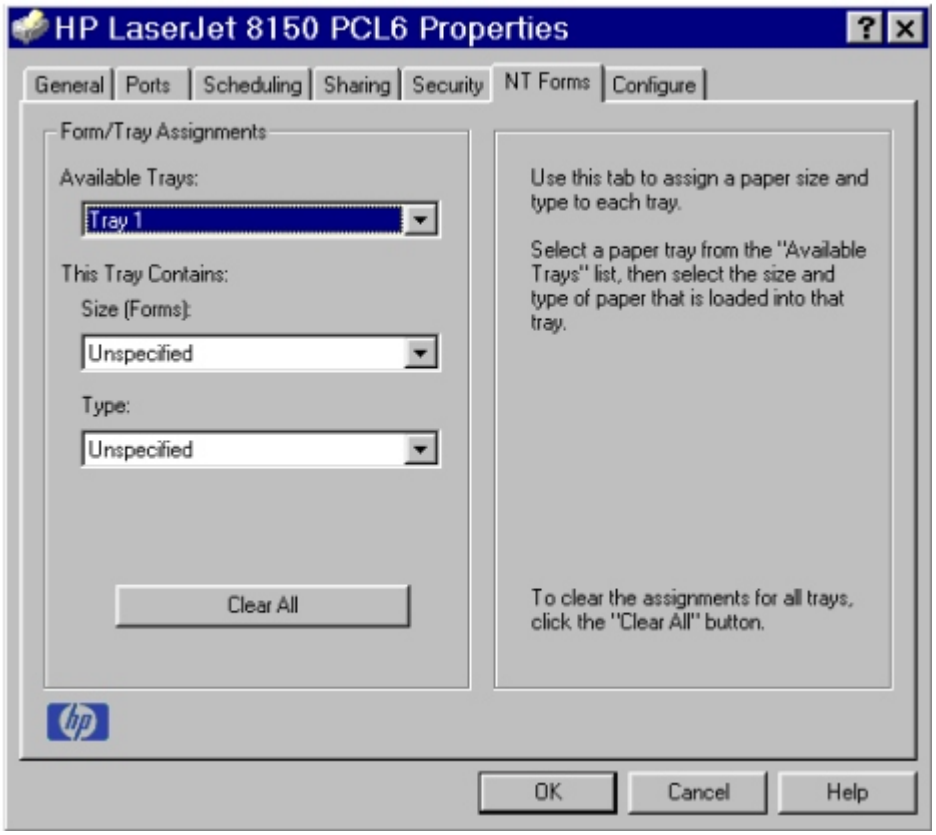
Automatic Configuration

If you have modified the configuration of the HP LaserJet 8150 printer after installation, click the **Update Now** button to automatically reflect the new configuration in the driver. This is the third method of using Driver Autoconfiguration. For more information about the Driver Automatic Configuration feature, see **Error! Reference source not found.**.

NT Forms tab features

The **NT Forms** tab appears only in the Microsoft Windows NT 4.0 and Windows 2000 operating environments. The **NT Forms** tab (like the **Configure** tab) can be viewed only from the **Properties** window.

Figure 64: Driver NT Forms tab



The **NT Forms** tab lets you specify which media sizes and types are loaded in each of the available paper trays. The advantage is that it constrains the choices available in the **Size** and **Type** lists on the **Paper** tab. This constraint prevents information overload when you request unavailable sizes or types.

Available Trays is a drop-down menu containing all printer trays specified on the **Configure** tab. The **This Tray Contains/Size (Forms)** drop-down menu contains a list of standard paper sizes supported by the HP LaserJet 8150 series printers, as well as any custom forms defined in the **Forms** tab. The **This Tray Contains/Type** drop-down menu lists all of the media types supported by the HP LaserJet 8150 printer. The **Clear All** button removes all size and type constraints on the **Paper** tab.

Configuring the trays

1. Select the appropriate tray from the **Available Trays** list.
2. Use the **This Tray Contains Size (Forms)** drop-down menu to select the paper size (or form) loaded in that tray.
3. Use the **This Tray Contains Type** drop-down menu to select the paper type that is configured for the tray.

4. Repeat steps 1 through 3 for the remaining trays.
5. If necessary, click the **Clear All** button to reconfigure all the trays, and remove the size and type constraints imposed on the **Paper** tab.

Windows PostScript driver features

This section provides information on the features of the Windows PostScript printer driver.

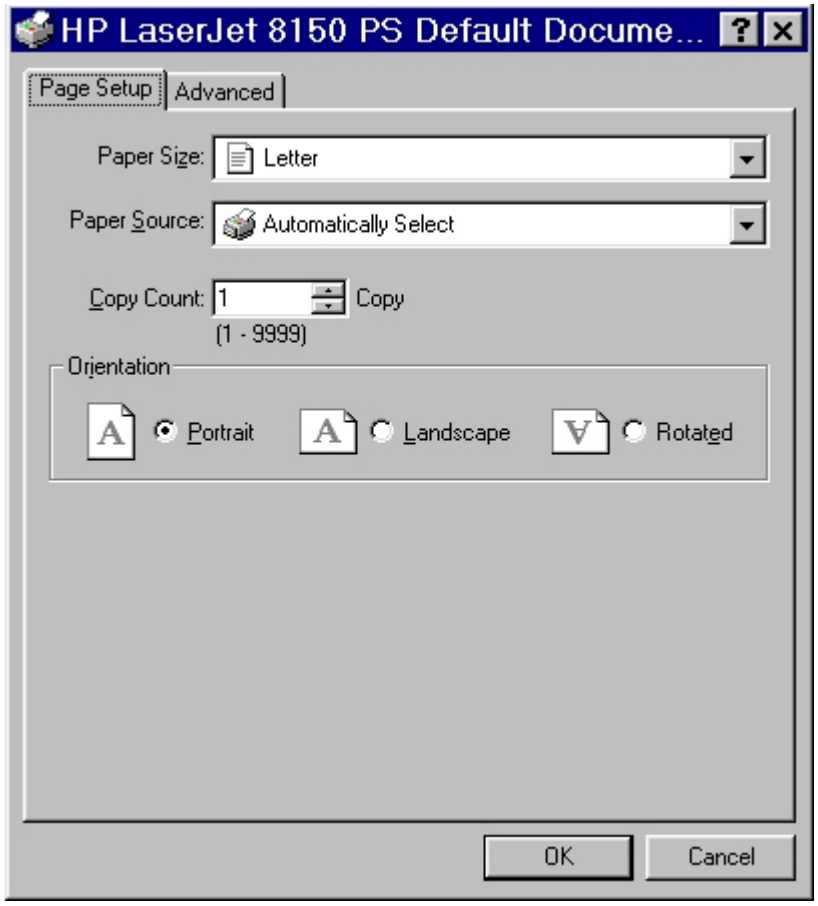
NOTE:	The driver interface shown in this section are for Windows NT 4.0. The order and appearance of tabs may vary among operating systems.

Page Setup tab features

The Page Setup tab contains controls for the following options:

- Paper Size
- Paper Source
- Copy Count
- Orientation

Figure 65: Page Setup tab

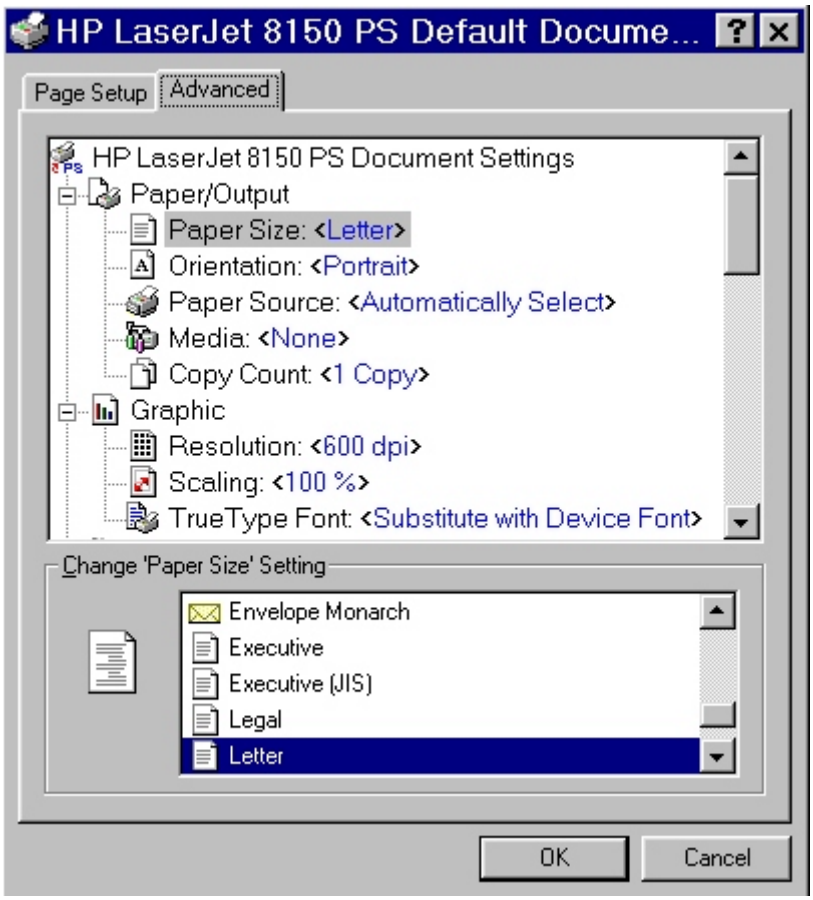


Advanced tab features

The Advanced tab contains controls for the following types of options:

- Paper/Output (advanced control over the options available on the Page Setup tab)
- Graphic (including resolution, scaling, and TrueType font controls)
- Document Options (including printer features)

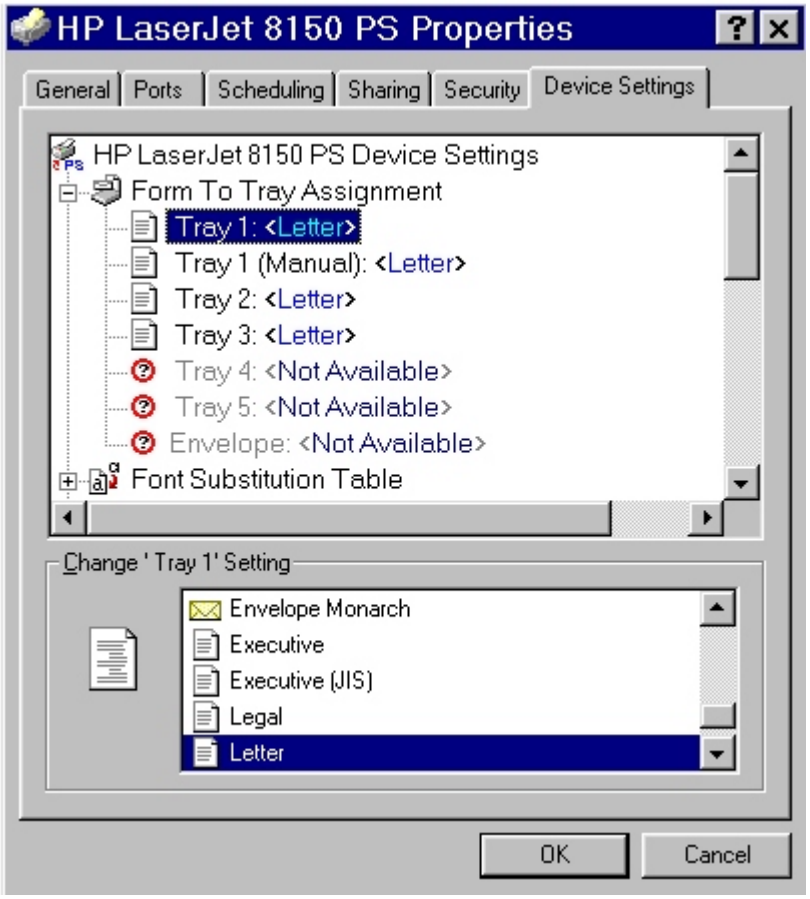
Figure 66: Advanced tab



Device Settings tab features

The Device Settings tab contains controls for paper-handling devices and controls for managing the HP LaserJet 8150 printer.

Figure 67: Device Settings tab



In-box file layout

HP LaserJet 8150 Printing System Installer CD-ROM, Windows partition

Directory Structure

- Language
  - Drivers
    - AutoCAD
      - DOS
      - WIN16
        - Disk1
        - Disk2
      - WIN32
        - Disk1
        - Disk2
    - WIN2000
      - PCL5e
      - PCL6
      - PS
    - WIN3X
      - Disk1
      - Disk2
    - WIN9X
      - PCL5e
      - PCL6
      - PS
    - WINNT40
      - PCL5e
      - PCL6
      - PS
  - Fontinst
    - WIN3X
  - Manuals
  - Reader
  - Resmng
    - WIN9X
      - Disk1
    - WINNT
      - Disk1

Root directory

Directory Structure	Files in this Directory	Directories in this Directory
<drive>:\ENGLISH\	READ8150.WRI	AUTOCAD <DIR> NT40 <DIR> WIN2K <DIR> WIN3X <DIR> WIN9X <DIR>

Drivers directory

Directory Structure	Directories in this Directory	
<drive>:\ENGLISH\DRIVERS\	AUTOCAD NT40 WIN2K WIN3X WIN9X	<DIR> <DIR> <DIR> <DIR> <DIR>

Directory Structure	Directories in this Directory	
<drive>:\ENGLISH\DRIVERS\AUTOCAD	DOS WIN16 WIN32	<DIR> <DIR> <DIR>

Directory Structure	Files in this Directory	
<drive>:\ENGLISH\DRIVERS\AUTOCAD\DOS	ACADDOS.EXE	

Directory Structure	Directories in this Directory	
<drive>:\ENGLISH\DRIVERS\AUTOCAD\ WIN16	DISK1 DISK2	<DIR> <DIR>

Directory Structure	Files in this Directory	
<drive>:\ENGLISH\DRIVERS\AUTOCAD\ \WIN16\DISK1	DISK1.ID R12DRV.Z R12SUP.Z R13DRV.Z R13SUP.Z README.TXT SETUP.EXE	SETUP.INS SETUP.PKG _INST16.EX_ _ISDEL.EXE _SETUP.DLL _SETUP.LIB

Directory Structure	Files in this Directory	
<drive>:\ENGLISH\DRIVERS\AUTOCAD\ WIN16\DISK2	APDS.Z COMSUP.Z	DISK2.ID

Directory Structure	Directories in this Directory	
<drive>:\ENGLISH\DRIVERS\AUTOCAD\ WIN32	DISK1 DISK2	<DIR> <DIR>

Directory Structure	Files in this Directory	
<drive>:\ENGLISH\DRIVERS\AUTOCAD| WIN32\DISK1	DISK1.ID R13DRV.Z R13SUP.Z R14DRV.Z R14SUP.Z README.TXT SETUP.EXE	SETUP.INS SETUP.PKG _INST32I.EX_ _ISDEL.EXE _SETUP.DLL _SETUP.LIB

Directory Structure	Directories in this Directory	
<drive>:\ENGLISH\DRIVERS\AUTOCAD\ WIN32\DISK2	APDS.Z COMSUP.Z	DISK2.ID

Directory Structure	Directories in this Directory	
<drive>:\ENGLISH\DRIVERS\NT40	PCL5E PCL6 PS	<DIR> <DIR> <DIR>

Directory Structure	Files in this Directory	
<drive>:\ENGLISH\DRIVERS\NT40\PCL5E	HP81505E.CAT HP81505E.INF HPBAFD32.DL_ HPBF0310.DL_ HPBF0311.DL_ HPBF0312.DL_ PBF0313.DL_	HPBF0314.DL_ HPBF0314.HL_ HPBF0314.PM_ HPBF0315.DL_ HPBF0316.DL_ HPBFTM32.DL_ HPDCMON.DL_

Directory Structure	Files in this Directory	
<drive>:\ENGLISH\DRIVERS\NT40\PCL6	HP8150_6.CAT HP8150_6.INF HPBAFD32.DL_ HPBF0320.DL_ HPBF0321.DL_ HPBF0322.DL_ HPBF0323.DL_	HPBF0324.DL_ HPBF0324.HL_ HPBF0324.PM_ HPBF0325.DL_ HPBF0326.DL_ HPBFTM32.DL_ HPDCMON.DL_

Directory Structure	Files in this Directory	
<drive>:\ENGLISH\DRIVERS\NT40\PS	HP8150PS.CAT HP8150PS.INF HP8150_6.PPD HP8150_6.PP_ HPDCMON.DL_	PS4UI.DL_ PSCRIPT.NT_ PSCRIPT4.DL_ PSCRIPT4.HL_

Directory Structure	Directories in this Directory	
<drive>:\ENGLISH\DRIVERS\WIN2K	PCL5E PCL6 PS	<DIR> <DIR> <DIR>

Directory Structure	Files in this Directory	
<drive>:\ENGLISH\DRIVERS\WIN2K\PCL5E	HP81505E.CAT HP81505E.INF HPBAFD32.DL_ HPBF0310.DL_ HPBF0311.DL_ HPBF0312.DL_ HPBF0313.DL_	HPBF0314.DL_ HPBF0314.HL_ HPBF0314.PM_ HPBF0315.DL_ HPBF0316.DL_ HPBFTM32.DL_

Directory Structure	Files in this Directory	
<drive>:\ENGLISH\DRIVERS\WIN2K\PCL6	HP8150_6.CAT HP8150_6.INF HPBAFD32.DL_ HPBF0320.DL_ HPBF0321.DL_ HPBF0322.DL_ HPBF0323.DL_	HPBF0324.DL_ HPBF0324.HL_ HPBF0324.PM_ HPBF0325.DL_ HPBF0326.DL_ HPBFTM32.DL_

Directory Structure	Files in this Directory	
<drive>:\ENGLISH\DRIVERS\WIN2K\PS	HP81505E.CAT HP8150PS.CAT HP8150PS.INF HP8150_7.PPD HP8150_7.PP_ HPBAFD32.DL_ HPBF0310.DL_ HPBF0311.DL_	HPBF0312.DL_ HPBF0313.DL_ HPBF0314.DL_ HPBF0314.HL_ HPBF0314.PM_ HPBF0315.DL_ HPBF0316.DL_ HPBFTM32.DL_

Directory Structure	Directories in this Directory	
<drive>:\ENGLISH\DRIVERS\WIN3X	DISK1 DISK2	<DIR> <DIR>

Directory Structure	Files in this Directory	
<drive>:\ENGLISH\DRIVERS\WIN3X\DISK1	HP8150_4.PPD HP8150_6.WPD HPBAFD16.DL_ HPBFAB.DD_ HPBFDA2.HL_ HPBFDA3.DR_ HPBFDA3.PM_	HPBFDA4.DL_ HPBFTM16.DL_ HPTABS16.DL_ OEMSETUP.INF PSCRIPT.DR_ PSCRIPT.HL_

Directory Structure	Files in this Directory	
<drive>:\ENGLISH\DRIVERS\WIN3X\DISK2	HPBFCA3.DR_ HPBFCA3E.HL_	HPBFCA4.DL_ HPBFCA8.PM_

Directory Structure	Directories in this Directory	
<drive>:\ENGLISH\DRIVERS\WIN9X	PCL5E PCL6 PS	<DIR> <DIR> <DIR>

Directory Structure	Files in this Directory	
<drive>:\ENGLISH\DRIVERS\WIN9X\PCL5E	HP81505E.CAT HP81505E.INF HPBAFD16.DL_ HPBF0310.DR_ HPBF0310.HL_ HPBF0310.PM_ HPBF0311.DL_	HPBFAB.DD_ HPBFAB16.DL_ HPBFAB32.DL_ HPBFTM16.DL_ HPBFTM32.DL_ HPDCMON.DL_

Directory Structure	Files in this Directory	
<drive>:\ENGLISH\DRIVERS\WIN9X\PCL6	HP8150_6.CAT HP8150_6.INF HPBAFD16.DL_ HPBF0320.DR_ HPBF0320.HL_ HPBF0320.PM_ HPBF0321.DL_	HPBFAB.DD_ HPBFAB16.DL_ HPBFAB32.DL_ HPBFTM16.DL_ HPBFTM32.DL_ HPDCMON.DL_

Directory Structure	Files in this Directory	
<drive>:\ENGLISH\DRIVERS\WIN9X\PS	FONTS.MF_ HP8150PS.CAT HP8150PS.INF HP8150_4.PPD HP8150_4.PP_	HPDCMON.DL_ ICONLIB.DL_ PSCRIPT.DR_ PSCRIPT.HL_ PSCRIPT.IN_

Fontinst directory

Directory Structure	Directories in this Directory	
<drive>:\ENGLISH\FONTINST\	WIN3X	<DIR>

Directory Structure	Directories in this Directory	
<drive>:\ENGLISH\FONITINST\	FONTIN31.EXE FONTINST.DLL	FONTS.INI

Manuals directory

Directory Structure	Files in this Directory	
<drive>:\ENGLISH\MANUALS\	EAUTOCAD.PDF HP3000EN.PDF HP8150EN.PDF	HP815REN.PDF HPJDAGEN.PDF

Reader directory

Directory Structure	Files in this Directory	
<drive>:\ENGLISH\READER\	AR405.EXE	

Resmrg directory

Directory Structure	Files in this Directory	Directories in this Directory	
<drive>:\ENGLISH\RESMRG	HPSETUP.EXE SETUP.EXE	WIN9X WINNT	<DIR> <DIR>

Directory Structure	Directories in this Directory	
<drive>:\ENGLISH\RESMRG\WIN9X	DISK1	<DIR>

Directory Structure	Files in this Directory	
<drive>:\ENGLISH\RESMRG\WIN9X\DISK1	BJRES.DL_	HPNETSRV.HP_
	CABINET.DL_	HPNPSNMP.DL_
	CFGMGR32.DL_	HPNRA.EX_
	COMCTL32.DL_	HPNW416.DL_
	FINDPTRS.AV_	HPNW432.DL_
	HPALERTS.DL_	HPNWPSRV.DL_
	HPALP.HP_	HPNWSHIM.DL_
	HPALPUI.HP_	HPOBJ.HP_
	HPBCOM.DL_	HPPAL16.DL_
	HPBLPT.VX_	HPPAL416.DL_
	HPBMLC.HP_	HPPAL432.DL_
	HPBNRACO.DL_	HPPDS.DL_
	HPBPML.DL_	HPPELK.HP_
	HPBPST.HL_	HPPJL.HP_
	HPBST16.DL_	HPPRECL.HL_
	HPBSTJ.DL_	HPPRECL.HP_
	HPCOLA.DL_	HPPRELK.HL_
	HPDCMON.DL_	HPPRKOA.HP_
	HPDMIP.HP_	HPPRMOBY.HL_
	HPDMIPX.HP_	HPPRMOBY.HP_
	HPECLUI.HP_	HPPRNTR.HL_
	HPELKUI.HP_	HPPRNTR.HP_
	HPEXPAND.DL_	HPPRUI.HP_
	HPFL.HP_	HPPTS.DL_
	HPFLASH.HL_	HPRESMGR.CN_
	HPFLSH.HP_	HPRESMGR.EX_
	HPGENAPP.DL_	HPRESMGR.HL_
	HPHCO.HL_	HPRRM.HP_
	HPHCO.HP_	HPSETUP.HL_
	HPHCOUI.HP_	HPSHELL.DL_
	HPHUGOUI.HL_	HPSNMP.DL_
	HPHUGOUI.HP_	HPTBUI.HP_
	HPIPXMIB.DL_	HPTCPMIB.DL_
	HPIPXMON.DL_	HPTCPMON.DL_
	HPIPXMON.IN_	HPTCPMON.IN_
	HPIPXMUI.DL_	HPTCPMUI.DL_
	HPIPXMUI.HL_	HPTCPMUI.HL_
	HPJAHLP.CN_	HPTRBIT.HP_
	HPJCMN1.DL_	HPUNINST.EX_
	HPJCMN1U.DL_	LICENSE.TXT
	HPJDCOM.HP_	MFC42.DL_
	HPJDNP.DL_	MGMTAPI.DL_
	HPJDPP.DL_	MSVCIRT.DL_
	HPJDUI.HP_	MSVCRT.DL_
	HPJDUND.HL_	NWCALLS.DL_

Directory Structure	Files in this Directory	
	HPJDUND.HP_	NWIPXSPX.DL_
	HPJIPX1U.DL_	NWLOCALE.DL_
	HPJMON.DL_	NWNET.DL_
	HPJMON.HL_	NWPNW.DL_
	HPJPRO1.DL_	NWPSRV.DL_
	HPJPTS1.DL_	PFMMAKE.DL_
	HPJSI.DL_	READRSMG.WRI
	HPJSI.HL_	RUNONCE.ST_
	HPJSIADP.DL_	SETUP.EXE
	HPJSIEXD.IN_	SETUP.IMG
	HPJSIME.IN_	SETUP.LST
	HPJSIPM.IN_	SETUP.PID
	HPJSIRA.EX_	SETUP.STT
	HPJSIRES.DL_	SETUPAPI.DL_
	HPJSIRES.IN_	SETUPRES.DLL
	HPJSNM1.DL_	SETUPUI.DL_
	HPKOAUI.HP_	SNMPAPI.DL_
	HPLOCMON.DL_	SNMP_PP.DL_
	HPLOCMON.HL_	TLS704D.DL_
	HPLOT.HL_	UNINSTAL.ST_
	HPLOTCP.HP_	UNINSTAL.UN_
	HPLOTUI.HP_	WSNMP32.DL_
	HPMNSNMP.DL_	Z_BIDI.PE_
	HPMOBYUI.HP_	Z_COLA.PE_
	HPMS.HP_	Z_READ.PE_
	HPMSTOR.HL_	Z_RESMGR.PE_
	HPMSUI.HP_	_SETUP32.DL_

Directory Structure	Directories in this Directory	
<drive>:\ENGLISH\RESMRG\WINNT	DISK1	<DIR>

Directory Structure	Files in this Directory	
<drive>:\ENGLISH\RESMRG\WINNT\DISK1	BJRES.DL_	HPMS.HP_
	ABINET.DL_	HPMSTOR.HL_
	COMCTL32.DL_	HPMSUI.HP_
	FINDPTRS.AV_	HPNETSRV.HP_
	HPALERTS.DL_	HPNPSNMP.DL_
	HPALP.HP_	HPNRA.EX_
	HPALPUI.HP_	HPNWPSRV.DL_
	HPBECP00.SY_	HPNWSHIM.DL_
	HPBMLC.HP_	HPOBJ.HP_
	HPBNRACO.DL_	HPPDS.DL_
	HPBPML.DL_	HPPELK.HP_
	HPBPST.HL_	HPPJL.HP_
	HPBSTT.DL_	HPPRECL.HL_
	HPBVCMNT.DL_	HPPRECL.HP_
	HPCOLA.DL_	HPPRELK.HL_
	HPDCMON.DL_	HPPRKOA.HP_
	HPDMIP.HP_	HPPRMOBY.HL_
	HPDMIPX.HP_	HPPRMOBY.HP_
	HPECLUI.HP_	HPPRNTR.HL_
	HPELKUI.HP_	HPPRNTR.HP_
	HPEXPAND.DL_	HPPRUI.HP_
	HPFL.HP_	HPPTS.DL_
	HPFLASH.HL_	HPRESMGR.CN_
	HPFLSH.HP_	HPRESMGR.EX_
	HPGENAPP.DL_	HPRESMGR.HL_
	HPHCO.HL_	HPRRM.HP_
	HPHCO.HP_	HPSETUP.HL_
	HPHCOUI.HP_	HPSHELL.DL_
	HPHUGOUI.HL_	HPSNMP.DL_
	HPHUGOUI.HP_	HPTCPMIB.DL_
	HPIPXMIB.DL_	HPTCPMON.DL_
	HPIPXMON.DL_	HPTCPMON.IN_
	HPIPXMON.IN_	HPTCPMUI.DL_
	HPIPXMUI.DL_	HPTCPMUI.HL_
	HPIPXMUI.HL_	HPTRBIT.HP_
	HPJAHLP.CN_	HPUNINST.EX_
	HPJCMN1.DL_	LICENSE.TXT
	HPJCMN1U.DL_	MFC42.DL_
	HPJDCOM.HP_	MFC42U.DL_
	HPJDUI.HP_	MGMTAPI.DL_
	HPJDUND.HL_	MSVCIRT.DL_
	HPJDUND.HP_	MSVCRT.DL_
	HPJIPX1U.DL_	MSVCRTD.DL_
	HPJMON.DL_	PFMMAKE.DL_
	HPJMON.HL_	READRSMG.WRI

Directory Structure	Files in this Directory	
	HPJPRO1.DL_	RUNONCE.ST_
	HPJPTS1.DL_	SETUP.EXE
	HPJSI.DL_	SETUP.IMG
	HPJSI.HL_	SETUP.LST
	HPJSIADP.DL_	SETUP.PID
	HPJSIEXD.IN_	SETUP.STT
	HPJSIME.IN_	SETUPRES.DLL
	HPJSIPM.IN_	SETUPUI.DL_
	HPJSIRA.EX_	SNMPAPI.DL_
	HPJSIRES.DL_	SNMP_PP.DL_
	HPJSIRES.IN_	TLS704D.DL_
	HPJSNM1.DL_	UNINSTAL.ST_
	HPKOAUI.HP_	UNINSTAL.UN_
	HPLOCMON.DL_	WSNMP32.DL_
	HPLOCMON.HL_	Z_BIDI.PE_
	HPLOTCP.HP_	Z_COLA.PE_
	HPLOTUI.HP_	Z_READ.PE_
	HPMNSNMP.DL_	Z_RESMGR.PE_
	HPMOBYUI.HP_	_SETUP32.DL_

HP LaserJet 8150 Printing System Installer CD-ROM, Macintosh partition

NOTE: The file layouts shown in this section are from the Americas version of the HP LaserJet 8150 Printing System Installer CD-ROM. File layouts differ according to language for the European and Asian versions of the CD-ROM.

Root directory

Directory Structure	Files in this Directory	Directories in this Directory
<drive>	LATE BREAKING README HP LASERJET SCREEN FONTS	HP LASERJET INSTALLERS <DIR> PDF <DIR>

HP LaserJet Installers directory

Directory Structure	Files in this Directory
<drive>:\HP LASERJET INSTALLERS	HP LASERJET INSTALLATIE (Dutch installer) HP LASERJET INSTALLER (U.S. English) HP LASERJET INSTALLER (A4) INSTALACIÓN DE LASERJET (Spanish installer) INSTALLA HP LASERJET (Italian installer) INSTALLA HP LASERJET (Portuguese installer) INSTALLATIE-AANWIJZINGEN (Installation Notes, Dutch) INSTALLATION DE LASERJET (French installer) INSTALLATION NOTES (English) INSTALLATIONSHINWEISE (Installation Notes, German) INSTRUÇÕES PARA A INSTALAÇÃO (Installation Notes, Portuguese) ISTRUZIONI PER L'INSTALLAZIONE (Installation Notes, Italian) LASERJET-INSTALLATIONSDATEI (German installer) NOTAS PARA LA INSTALACIÓN (Installation Notes, Spanish) REMARQUES SUR L'INSTALLATION (Installation Notes, French)

PDF directory

Directory Structure	Directories in this Directory
<drive>\PDF\	Deutsch <DIR> English <DIR> Espanol <DIR> Francais <DIR> Italiano <DIR> NedrInds <DIR> Portugus <DIR>

PDF\English directory

Directory Structure	Files in this Directory
<drive>\PDF\ENGLISH	HP3000EN.PDF HP8150EN.PDF HP815REN.PDF HPJDAGEN.PDF

Availability and fulfillment

This section provides information on the availability of the HP LaserJet 8150 Printing System software and related software and firmware. Software and firmware is available on CD-ROM from HP fulfillment centers or may be downloaded from the http://www.hp.com Web site.

In-box CD-ROMs

The HP LaserJet 8150 Printing System Installer CD-ROM is available in three regional versions. The following table lists the three versions of the HP LaserJet 8150 Printing System Installer CD-ROM, along with the languages each version supports.

CD-ROM version	Languages supported
Americas	English French German Italian Portuguese Spanish
European	Czech Danish Dutch English Finnish Hungarian Italian Norwegian Polish Russian Swedish Turkish
Asian	English Chinese (Simplified) Chinese (Traditional) Korean Japanese

For the HP LaserJet 8150MFP, there are two additional CD-ROMs containing Digital Sender software/documentation and The Digital Copy Module User Guide. These CD-ROMs are available in the following languages:

- English
- French
- Dutch
- Italian
- German
- Spanish
- Swedish

CD-ROM fulfillment

This section provides information on fulfillment centers and Web ordering for the HP LaserJet 8150 Printing System Installer CD-ROM.

Fulfillment centers

The HP LaserJet 8150 Printing System Installer CD-ROM is available from regional fulfillment centers. Contact the local Customer Care Center for additional information. Your local Customer Care Center telephone numbers are available in the User Manual.

Web ordering

The HP LaserJet 8150 Printing System Installer CD-ROM and related software CD-ROMs may be ordered from the http://www.hp.com Web site. Search by product name and number to find the appropriate Web links.

Web deployment

Software and firmware to support the HP LaserJet 8150 series printers is available for download from the http://www.hp.com Web site. This is the preferred method for obtaining the latest software and firmware. The Web site offers a notification option for automatic e-mail notification about new software and firmware releases.

Printing system software

The HP LaserJet 8150 Printing System software is available for download from the HP Web Site at http://www.hp.com/go/lj8150_software to support the following operating systems:

- Windows 95, Windows 98, and Windows Me
- Windows NT 4.0 and Windows 2000

Printer firmware

Firmware to support the HP LaserJet 8150 series printers is available for download from the HP Web site at http://www.hp.com/go/lj8150_firmware. Use the notification option to be notified of new firmware releases.

Standalone drivers

The HP LaserJet 8150 PCL 6, PCL 5e, and PS drivers are available individually to support the following operating systems:

- Windows 3.1*x* (all three drivers, plus fonts)
- Windows 95 and Windows 98
- Windows NT 4.0
- Windows 2000

Operating system driver bundles

The HP LaserJet 8150 PCL 6, PCL 5e, and PS drivers are available in bundled configurations to support the following operating systems:

- Windows 3.1*x*
- Windows 95, Windows 98, and Windows Me
- Windows NT 4.0 and Windows 2000

Point and Print bundles

The HP LaserJet 8150 PCL 6 driver is available in a Point and Print bundle to support the Windows operating environments.

Other operating systems

Drivers and related software are available for these additional operating environments:

- Mac OS (PPDs and Universal Installer)
- AutoCAD (AutoCAD family drivers)
- OS/2 (PCL 6, PCL 5e, and PS)

MFP software and firmware

Software and firmware to support the HP Digital Copy module is available for download from the HP Web site. Search by product name and number to find the appropriate Web links. Use the Notify Me option to be notified of new software and firmware releases.

System requirements

This section lists the system requirements necessary to install and use the HP LaserJet 8150 printing system software on each supported operating system.

Windows 3.1*x*

- 386 processor
- 16 MB RAM
- 20 MB available disk space

Windows 2000

- Pentium processor
- 16 MB RAM
- 20 MB available disk space

Windows 95, Windows 98, and Windows Millennium Edition

- Pentium processor
- 16 MB RAM
- 20 MB available disk space

Windows NT 4.0

- Pentium processor
- 16 MB RAM
- 20 MB available disk space

Macintosh

- 68 K processor
- Mac OS 7.5.3 or higher
- 16 MB RAM
- 20 MB available disk space

OS/2

- Pentium processor
- 32 MB RAM (required for OS/2)
- 5 MB available disk space (required for driver)

Installation and removal

This section provides procedures for installing and removing the HP LaserJet 8150 Printing System software for each supported operating system. It also provides information on font support and system modifications.

Windows 3.1*x*

Printer support

- The PostScript emulation driver will support the HP LaserJet 8150 printer, but only on a standalone version of Windows 3.1*x*. Other PostScript printers can be supported with additional PPDs.
- The PCL 6and PCL 5e drivers support HP LaserJet 8150 Series printers.

To install printer drivers on Windows 3.1*x*

Windows 3.1*x* is not supported by the CD Browser and Printing System Installer for the HP LaserJet 8150. Printing from Windows 3.1*x* is supported with the PCL 5e and PCL 6 drivers for the HP LaserJet 8100, and with the PS driver. To install these drivers, you must use the Add Printer function in the Windows 3.1*x* Control Panel:

1. Insert the HP LaserJet 8150 Printing System Installer CD-ROM in the CD-ROM drive.
2. From the **Control Panel**, double-click the **Printers** icon.
3. Click **Add**.
4. Choose the **Install from Vendor Disk** option from the list of available printers to install, then click **Install**.
5. Browse to the directory on the CD-ROM that contains the drivers for the appropriate language. For English, the path is X:\ENGLISH\DRIVERS\WIN3X\, where 'X' represents the letter designating your CD-ROM drive.
6. Click **OK**. The drivers will be copied to your hard disk and added to the list of installed printers.

Windows 95, Windows 98, and Windows Me

NOTE:	In the descriptions that follow, the $ symbol before a path name indicates that the path to that directory can change from system to system. The term $Path indicates that the path and the subdirectory can change from system to system.

Font support

Microsoft Windows software includes these basic fonts that can be used with any HP printer:

- Arial
- Arial Italic
- Arial Bold
- Arial Bold Italic
- Courier New
- Courier New Italic
- Courier New Bold
- Courier New Bold Italic
- Symbol
- Times New Roman
- Times New Roman Italic
- Times New Roman Bold
- Times New Roman Bold Italic
- Wingdings

The following default fonts are installed through a Typical Installation of the HP LaserJet 8150 Printing System software.

File name	Font name
CORONET.TTF	Coronet
GARR45W.TTF	Garamond
GARR46W.TTF	Garamond Kursiv
GARR65W.TTF	Garamond Halbfett
GARR66W.TTF	Garamond Kursiv Halbfett
LETR45W.TTF	LetterGothic
LETR46W.TTF	LetterGothic Italic
LETR65W.TTF	LetterGothic Bold
MARIGOLD.TFF	Marigold
OLVR55W.TTF	Antique Olive
OLVR56W.TTF	Antique Olive Italic
OLVR75W.TTF	Antique Olive Bold
UNVR55W.TTF	Univers
UNVR56W.TTF	Univers Italic
UNVR57W.TTF	Univers Condensed
UNVR58W.TTF	Univers Condensed Italic
UNVR65W.TTF	Univers Bold
UNVR66W.TTF	Univers Bold Italic

File name	Font name
UNVR67W.TTF	Univers Condensed Bold
UNVR68W.TTF	Univers Condensed Bold Italic
AVGR45W.TTF	ITC Avant Garde Gothic
AVGR46W.TTF	ITC Avant Garde Gothic Oblique
AVGR65W.TTF	ITC Avant Garde Gothic Demi
AVGR66W.TTF	ITC Avant Garde Gothic Demi Oblique
BOKR35W.TTF	ITC Bookman Light
BOKR36W.TTF	ITC Bookman Light Italic
BOKR75W.TTF	ITC Bookman Light Demi
BOKR76W.TTF	ITC Bookman Light Demi Italic
CHANC___.TTF	ITC Zapf Chancery Medium Italic
CPSR45W.TTF	CourierPS
CPSR46W.TTF	CourierPS Oblique
CPSR65W.TTF	CourierPS Bold
CPSR66W.TTF	CourierPS Bold Oblique
DINGS___.TTF	ITC Zapf Dingbats
HELR45W.TTF	Helvetica
HELR46W.TTF	Helvetica Oblique
HELR47W.TTF	Helvetica Narrow
HELR48W.TTF	Helvetica Narrow Oblique
File name	**Font name**
HELR65W.TTF	Helvetica Bold
HELR66W.TTF	Helvetica Bold Oblique
HELR67W.TTF	Helvetica Narrow Bold
HELR68W.TTF	Helvetica Narrow Bold Oblique
NCSR55W.TTF	New Century Schoolbook
NCSR56W.TTF	New Century Schoolbook Italic
NCSR75W.TTF	New Century Schoolbook Bold
NCSR76W.TTF	New Century Schoolbook Bold Italic
PALR45W.TTF	Palatino Roman
PALR46W.TTF	Palatino Italic
PALR65W.TTF	Palatino Bold
PALR66W.TTF	Palatino Bold Italic
SYMPS__.TTF	SymbolPS
TIMR45W.TTF	Times Roman
TIMR46W.TTF	Times Italic
TIMR65W.TTF	Times Bold
TIMR66W.TTF	Times Bold Italic

The following additional fonts may be installed:

File name	Font name
ALBR55W.TTF	Albertus Extra Bold
ALBR85W.TTF	Albertus Medium
CGOR45W.TTF	CG Omega
CGOR46W.TTF	CG Omega Italic
CGOR65W.TTF	CG Omega Bold
CGOR66W.TTF	CG Omega Bold Italic
CGTR45W.TTF	CG Times
CGTR46W.TTF	CG Times Italic
CGTR65W.TTF	CG Times Bold
CGTR66W.TTF	CG Times Bold Italic
CLAR67W.TTF	Clarendon Condensed Bold

Installation instructions

General installation

NOTE:	If the HP LaserJet 8150 printer is connected through a file or print server, the HP LaserJet 8150 Printing System software must first be installed on the server first before being installed on any client systems. If the HP LaserJet 8150 Printing System software is not installed on the server first, bidirectional communication, Driver Autoconfiguration, and Job Status and Alerts will not be available to the client systems.

1. Connect the printer to the computer, and turn the printer on.
2. Close all applications. Turn off virus checkers and TSR programs. After installation, these programs can be turned back on.
3. Insert the installation CD-ROM for the appropriate language into the CD-ROM drive.
4. If AutoPlay is bypassed, select **Run** from the **Start** menu.
5. Type D:\SETUP.EXE and press ENTER, or click **OK**.
6. Click **Install Printer**.
7. To install printer software for the language and version of Windows being used to install from, click **Next**. To install printer software in another language, select the language you wish to install from the drop-down menu list.
8. Click **Continue** until you are asked to select an installation option.
9. Select an installation option, **Typical** or **Custom**, and follow the on-screen instructions to complete the installation.

Windows Installation Options	
Typical	**Custom**
PCL 6 printer driver Screen fonts Bidirectional communication Driver Autoconfiguration	PCL 6 printer driver PCL 5e printer driver PS printer driver Bidirectional communication Driver Autoconfiguration Job Status and Alerts Online User's Guide Ready Reference Guide Printing system release notes

NOTE: The HP LaserJet 8150 uninstaller is always added to the system when the HP LaserJet 8150 Printing System Installer is run.

Bidirectional communication and Driver Autoconfiguration are installed on the system only in supported network environments. Parallel and USB connections do not support bidirectional communication.

Point and Print installation

The following information will assist you as you install a printer driver using the Microsoft Point and Print function when the user cannot see the printer on the network.

Point and Print is a Microsoft term used to describe a driver installation process. It includes two steps. The first step is to install a shared driver on a network print server. The second step is to "point" to the print server from a network client so that the client can use the print driver. This process is also described as a network installation of a printer driver.

NOTE: This section outlines the procedures for installing print drivers with Point and Print. If these procedures are not successful, then you should contact Microsoft. HP provides drivers that are compatible with the Point and Print feature, but this is a function of the Microsoft operating systems, not of HP print drivers.

Windows NT drivers written by HP are supported only on Intel X86 processor types. Any other processor types must use Windows NT drivers written by Microsoft.

Windows 9*x* server and Windows 9*x* clients

1. Using the Add Printer Wizard, install the Windows 9*x* driver on the server. Use the following instructions:
   a. Press CTRL+ALT+DELETE, which will bring up the **Close Program** window.
   b. Close every software program except Explorer. Do this by highlighting the other items, one at a time, and selecting the **End Task** button. Repeat step (a) each time you need to close another item.
   c. Click **Start**, click **Settings**, and then click **Printers**.
   d. In the **Printers** folder, double-click the **Add Printer** icon to start the Add Printer Wizard.
   e. Select **Next** and select **Local Printer**. Select **Next**.
   f. Select the printer model in the list of available printers, or select **Have Disk** if installing the driver from an alternate source, such as diskette, CD-ROM, or software download. If installing from a software download, you must know the path where the software has been downloaded.
   g. Complete the installation.
2. After the installation is complete, highlight the printer icon and select **File**, and then **Properties**. In the **Printer Properties** window, select the **Sharing** tab. You must enable **File and Print Sharing** service for either Microsoft networks or Novell networks on the server.
3. Under the **Sharing** tab, select **Shared As** and type in a share name. Any comment or password is optional. To exit **Properties**, select **OK**. A hand will appear beneath the printer icon in the **Printers** folder, indicating that the printer is shared.
4. From a Windows 95 client, you can install the driver using Point and Print in one of the following four ways:
   - In Network Neighborhood, locate the server and double-click the printer share name.
   - In Network Neighborhood, locate the server; drag and drop the icon for the shared printer into your **Printers** folder.
   - In the **Printers** folder, open the Add Printer Wizard and select **Network Printer**. Select **Next**. Enter the network path or queue name, or choose **Browse** to search the network to locate the appropriate path.
   - In Network Neighborhood, locate the server and double-click. Then locate the printer share name and right-click. Select **Install**.
5. Complete the installation through the Add Printer Wizard.

Enabling file and print sharing

1. Open the properties of Network Neighborhood from the Windows 95 desktop.
2. Under the **Configuration** tab, determine if file and printer sharing for Microsoft Networks or file and printer sharing for NetWare Networks is listed in the installed components list.
3. If the appropriate component is listed, continue to step 6. If not, select the **Add** button.
4. In the Select Network Component Type window, choose **Service**, and select the **Add** button.
5. In the Select Network Service window, select Microsoft under manufacturers and file and printer sharing for Microsoft Networks, or select NetWare Networks. Select **OK**.

6. Under the **Configuration** tab of the Network window, select the **File and Print Sharing** button. Click to check the box next to **I want to be able to allow others to print to my printer(s)**. Select **OK**.
7. Select **OK** to exit the Network window.
8. In the **System Settings Change** window, select **Yes** to restart the computer now.
9. Windows 95 will restart.

NOTE: Point and Print installation of PostScript drivers is supported only when using Microsoft Windows 95 PostScript drivers (v 4.0).

10. After the chosen printer software has been installed and Windows has been restarted, the installation is complete.

Uninstalling printing system components

CAUTION: **Hewlett-Packard developed the Uninstaller to uninstall printing system components and their related files easily and safely without affecting other system components or shared system files. Hewlett-Packard strongly recommends the Uninstaller as the primary means to uninstall printing system components. See the individual component sections.**

1. From the **Start** menu, click **Programs**.
2. Select **HP LaserJet 8150**.
3. Select **HP LaserJet 8150 Uninstaller**.
4. Select a component to uninstall by checking the appropriate box. Then, click **Next**.

Windows NT 4.0

NOTE:	In the following descriptions, the $ symbol before a path name indicates that the path to that directory can change from system to system. The term $Path indicates that the path and the subdirectory can change from system to system.

Font support

Microsoft Windows software includes these basic fonts that can be used with any HP printer:

- Arial
- Arial Italic
- Arial Bold
- Arial Bold Italic
- Courier New
- Courier New Italic
- Courier New Bold
- Courier New Bold Italic
- Symbol
- Times New Roman
- Times New Roman Italic
- Times New Roman Bold
- Times New Roman Bold Italic
- Wingdings

The following default fonts are installed through typical installation of the HP LaserJet 8150 Printing System software.

File name	Font name
CORONET.TTF	Coronet
GARR45W.TTF	Garamond
GARR46W.TTF	Garamond Kursiv
GARR65W.TTF	Garamond Halbfett
GARR66W.TTF	Garamond Kursiv Halbfett
LETR45W.TTF	LetterGothic
LETR46W.TTF	LetterGothic Italic
LETR65W.TTF	LetterGothic Bold
MARIGOLD.TFF	Marigold
OLVR55W.TTF	Antique Olive
OLVR56W.TTF	Antique Olive Italic
OLVR75W.TTF	Antique Olive Bold
UNVR55W.TTF	Univers
UNVR56W.TTF	Univers Italic
UNVR57W.TTF	Univers Condensed
UNVR58W.TTF	Univers Condensed Italic
UNVR65W.TTF	Univers Bold
UNVR66W.TTF	Univers Bold Italic
UNVR67W.TTF	Univers Condensed Bold

File name	Font name
UNVR68W.TTF	Univers Condensed Bold Italic
AVGR45W.TTF	ITC Avant Garde Gothic
AVGR46W.TTF	ITC Avant Garde Gothic Oblique
AVGR65W.TTF	ITC Avant Garde Gothic Demi
AVGR66W.TTF	ITC Avant Garde Gothic Demi Oblique
BOKR35W.TTF	ITC Bookman Light
BOKR36W.TTF	ITC Bookman Light Italic
BOKR75W.TTF	ITC Bookman Light Demi
BOKR76W.TTF	ITC Bookman Light Demi Italic
CHANC___.TTF	ITC Zapf Chancery Medium Italic
CPSR45W.TTF	CourierPS
CPSR46W.TTF	CourierPS Oblique
CPSR65W.TTF	CourierPS Bold
CPSR66W.TTF	CourierPS Bold Oblique
DINGS___.TTF	ITC Zapf Dingbats
HELR45W.TTF	Helvetica
HELR46W.TTF	Helvetica Oblique
HELR47W.TTF	Helvetica Narrow
HELR48W.TTF	Helvetica Narrow Oblique
HELR65W.TTF	Helvetica Bold
File name	**Font name**
HELR66W.TTF	Helvetica Bold Oblique
HELR67W.TTF	Helvetica Narrow Bold
HELR68W.TTF	Helvetica Narrow Bold Oblique
NCSR55W.TTF	New Century Schoolbook
NCSR56W.TTF	New Century Schoolbook Italic
NCSR75W.TTF	New Century Schoolbook Bold
NCSR76W.TTF	New Century Schoolbook Bold Italic
PALR45W.TTF	Palatino Roman
PALR46W.TTF	Palatino Italic
PALR65W.TTF	Palatino Bold
PALR66W.TTF	Palatino Bold Italic
SYMPS__.TTF	SymbolPS
TIMR45W.TTF	Times Roman
TIMR46W.TTF	Times Italic
TIMR65W.TTF	Times Bold
TIMR66W.TTF	Times Bold Italic

The following additional fonts may be installed:

File name	Font name
ALBR55W.TTF	Albertus Extra Bold
ALBR85W.TTF	Albertus Medium
CGOR45W.TTF	CG Omega
CGOR46W.TTF	CG Omega Italic
CGOR65W.TTF	CG Omega Bold
CGOR66W.TTF	CG Omega Bold Italic
CGTR45W.TTF	CG Times
CGTR46W.TTF	CG Times Italic
CGTR65W.TTF	CG Times Bold
CGTR66W.TTF	CG Times Bold Italic
CLAR67W.TTF	Clarendon Condensed Bold

Installation instructions

General installation

NOTE: If the HP LaserJet 8150 printer is connected through a file or a print server, the HP LaserJet 8150 printing system software must first be installed on the server before being installed on any client systems. If the HP LaserJet 8150 Printing System software is not installed on the server first, bidirectional communication, Driver Autoconfiguration, and Job Status and Alerts will not be available to the client systems.

You must have administrator rights on the system to install the software.

1. Close all applications, TSR programs, and virus checkers. After installation, restart these programs.
2. If you are installing from the CD-ROM, insert the CD-ROM into the CD-ROM drive.
3. If the CD-ROM auto-play begins, go to step 6.
4. If the installation CD-ROM does not begin to auto-play, select **Run** from the **Start** menu.
5. In the **Run** box, type the drive and path for the installation CD-ROM (usually D:\SETUP.EXE). If you are a network user installing from a shared Windows directory, see your network administrator for the correct drive and path.
6. Click **Install Printer** to begin installation, and then respond to each prompt that appears on the screen. Click **Next** to proceed to the next screen, or click **Back** to return to the previous screen.

NOTE: If you downloaded the printing system electronically, run the downloaded .EXE file(s) first. If SETUP.EXE does not automatically run, browse to the root location of the downloaded SETUP.EXE file, double-click the file, and go to step 6.

Windows installation options	
Typical	**Custom**
PCL 6 printer driver Screen fonts Bidirectional communication Driver Autoconfiguration	PCL 6 printer driver PCL 5e printer driver PS printer driver Bidirectional communication Driver Autoconfiguration Job Status and Alerts Online User's Guide Ready Reference Guide Printing system release notes

NOTE: The HP LaserJet 8150 uninstaller is always added to the system when the HP LaserJet 8150 Printing System Installer is run.

Bidirectional communication and Driver Autoconfiguration are installed on the system only in supported network environments. Parallel and USB connections do not support bidirectional communication.

Point and Print installation

The following information will assist you as you install a printer driver using the Microsoft Point and Print function you cannot view the printer on the network.

Point and Print is a Microsoft term used to describe a driver installation process. It includes two steps. The first step is to install a shared driver on a network print server. The second step is to "point" to the print server from a network client so that the client can use the print driver. This process is also described as a network installation of a printer driver.

NOTE: This section outlines the procedures for installing print drivers with Point and Print. If these procedures are not successful, contact Microsoft. HP does not strictly support Point and Print, and the feature is a function of the Microsoft operating systems, not of HP print drivers.

Windows NT drivers written by HP are supported only on an Intel processor type. Any other processor type must use Windows NT drivers written by Microsoft.

Windows NT 4.0 server and Windows NT 4.0 clients

1. Using the Add Printer Wizard, install the Windows NT driver on the server:
   a. Click **Start**, click **Settings**, and then click **Printers**.
   b. In the **Printers** folder, double-click the **Add Printer** icon to start the Add Printer Wizard.
   c. Select **Next** and select **My Computer**. Select **Next**.
   d. Select the appropriate port in the list of ports, or select **Add Port** to connect to a network port not in the list of available ports.
   e. Select the printer model in the list of available printers, or select **Have Disk** if installing the driver from an alternate source; such as a diskette, CD-ROM, or software download. If installing from a software download, you must know the path to which the software has been downloaded.
   f. Complete the installation.
2. After the installation is complete, highlight the printer icon and select **File**, then Properties. In the **Printer Properties** window, select the **Sharing** tab.
3. Under the **Sharing** tab, select **Shared:** and type in a share name. If desired, select the **Security** tab and select **Permissions** to modify the default user permissions of the printer. To exit **Properties**, select **OK**. A hand will appear below the printer icon in the **Printers** folder, indicating that the printer is shared.
4. From a Windows NT 4.0 client, you can install the driver using Point and Print in one of the following four ways:
   - In Network Neighborhood, locate the server and double-click the printer share name.
   - In Network Neighborhood, locate the server and drag and drop the icon for the shared printer into your **Printers** folder.
   - In the Printers folder, open the **Add Printer** Wizard and select **Network printer server**. Select **Next**. Enter the network path or queue name, or browse the network to locate the appropriate path.
   - In Network Neighborhood, locate the server and double-click. Then locate the printer share name and right-click. Select **Install**.
5. Complete the installation through the Add Printer Wizard.

NOTE:	To install the printer driver on the NT 4.0 server, you must have administrator permission.

Windows NT 4.0 server and Windows 9*x* clients

1. Install the Windows NT driver on the server using the Add Printer Wizard:
   a. Click **Start**, click **Settings**, and then click **Printers**.
   b. In the Printers folder, open the Add Printer Wizard, select **Add Printer**; then select **File** and **Open** from the menu bar).
   c. Select **Next** and select **My Computer**. Select **Next**.
   d. Select the appropriate port in the list of ports, or select **Add Port** to connect to a network port not listed as an available port.
   e. Select the printer model in the list of available printers, or select **Have Disk** if installing the driver from an alternate source; such as a diskette, CD-ROM, or software download. If installing from a software download, you must know the path to which the software has been downloaded.
   f. Complete the installation.
2. After the installation is complete, highlight the printer icon and select **File/Properties**. In the **Printer Properties** window, select the **Sharing** tab.

3. Under the **Sharing** tab, select **Shared:** and type in a share name. In the **Alternate Drivers** list, select **Windows 95**. If desired, select the **Security** tab and select **Permissions** to modify the default user permissions of the printer. Select **OK**.
4. Select **OK** in the **Insert Disk** window.
5. In the **Printer Drivers for Windows 95** window, enter the appropriate path for the Windows 95 printer driver .INF file. If the printer driver file is on a disk, insert the diskette or CD-ROM in the disk drive. Select **OK**.
6. Select **OK** again to confirm the path for the Windows 95 .INF file. Windows NT will then copy the Windows 95 printer driver files. A hand will appear beneath the printer icon in the Windows NT 4.0 Printers folder, indicating that it is shared.
7. From a Windows 95 client, you may install the driver using Point and Print in one of the following three ways:
   - In Network Neighborhood, locate the server and double-click the printer share name.
   - In Network Neighborhood, locate the server and drag and drop the icon for the shared printer into your **Printers** folder.
   - In the **Printers** folder, open the Add Printer Wizard and select **Network Printer**. Select **Next**. Enter the network path or queue name, or browse the network to locate the appropriate path.
8. Complete the installation through the Add Printer Wizard.

NOTE:	To completely install the NT 4.0 printer driver on the NT 4.0 server, you must have administrator permission on the server. The Windows NT 4.0 printer .INF file must contain the same printer name as the Windows 95 printer .INF file. Point and Print installation of a PostScript driver is supported only with a Microsoft Windows 95 PostScript driver v. 4.0 or greater.

Setting a default printer

1. From the **Start** menu, click **Settings**, and then click **Printers**.
2. Select the printer you wish to set as the default printer.
3. From the **File** menu, select **Set As Default**. A check appears next to the menu option.
4. Click **Close**.

Uninstalling printing system components

CAUTION: **Hewlett-Packard strongly recommends using the Uninstaller to remove printing system components. Removing printing system components and files manually can impact the operation of other installed components of this printing system, as well as components of other printing systems installed on this computer. System integrity can also be affected by removing files from the printing system. Before removing any files, perform a complete backup of the system.**

1. From the **Start** menu, click **Programs**.
2. Select **HP LaserJet 8150**.
3. Select **HP LaserJet 8150 Uninstaller**.
4. Select a component to uninstall by checking the appropriate box. Then, click **Next**. The program automatically removes selected printing system components.
5. You may be asked to restart your computer.

Windows 2000

NOTE:	In the descriptions that follow, the $ symbol before a path name indicates that the path to that directory can change from system to system. The term $Path indicates that the path and the subdirectory can change from system to system.

Font support

Microsoft Windows software includes these basic fonts that can be used with any HP printer:

- Arial
- Arial Italic
- Arial Bold
- Arial Bold Italic
- Courier New
- Courier New Italic
- Courier New Bold
- Courier New Bold Italic
- Symbol
- Times New Roman
- Times New Roman Italic
- Times New Roman Bold
- Times New Roman Bold Italic
- Wingdings

The following default fonts are installed through a typical installation of the HP LaserJet 8150 Printing System software.

File name	Font name
CORONET.TTF	Coronet
GARR45W.TTF	Garamond
GARR46W.TTF	Garamond Kursiv
GARR65W.TTF	Garamond Halbfett
GARR66W.TTF	Garamond Kursiv Halbfett
LETR45W.TTF	LetterGothic
LETR46W.TTF	LetterGothic Italic
LETR65W.TTF	LetterGothic Bold
MARIGOLD.TFF	Marigold
OLVR55W.TTF	Antique Olive
OLVR56W.TTF	Antique Olive Italic
OLVR75W.TTF	Antique Olive Bold
UNVR55W.TTF	Univers
UNVR56W.TTF	Univers Italic
UNVR57W.TTF	Univers Condensed
UNVR58W.TTF	Univers Condensed Italic
UNVR65W.TTF	Univers Bold
UNVR66W.TTF	Univers Bold Italic
UNVR67W.TTF	Univers Condensed Bold
UNVR68W.TTF	Univers Condensed Bold Italic
AVGR45W.TTF	ITC Avant Garde Gothic
AVGR46W.TTF	ITC Avant Garde Gothic Oblique
AVGR65W.TTF	ITC Avant Garde Gothic Demi
AVGR66W.TTF	ITC Avant Garde Gothic Demi Oblique
BOKR35W.TTF	ITC Bookman Light
BOKR36W.TTF	ITC Bookman Light Italic
BOKR75W.TTF	ITC Bookman Light Demi
BOKR76W.TTF	ITC Bookman Light Demi Italic
CHANC___.TTF	ITC Zapf Chancery Medium Italic
CPSR45W.TTF	CourierPS
CPSR46W.TTF	CourierPS Oblique
CPSR65W.TTF	CourierPS Bold
CPSR66W.TTF	CourierPS Bold Oblique
DINGS___.TTF	ITC Zapf Dingbats
HELR45W.TTF	Helvetica
HELR46W.TTF	Helvetica Oblique
HELR47W.TTF	Helvetica Narrow
HELR48W.TTF	Helvetica Narrow Oblique
HELR65W.TTF	Helvetica Bold
HELR66W.TTF	Helvetica Bold Oblique
HELR67W.TTF	Helvetica Narrow Bold

File name	Font name
HELR68W.TTF	Helvetica Narrow Bold Oblique
NCSR55W.TTF	New Century Schoolbook
NCSR56W.TTF	New Century Schoolbook Italic
NCSR75W.TTF	New Century Schoolbook Bold
NCSR76W.TTF	New Century Schoolbook Bold Italic
PALR45W.TTF	Palatino Roman
PALR46W.TTF	Palatino Italic
PALR65W.TTF	Palatino Bold
PALR66W.TTF	Palatino Bold Italic
SYMPS__.TTF	SymbolPS
TIMR45W.TTF	Times Roman
TIMR46W.TTF	Times Italic
TIMR65W.TTF	Times Bold
TIMR66W.TTF	Times Bold Italic

The following additional fonts may be installed:

File name	Font name
ALBR55W.TTF	Albertus Extra Bold
ALBR85W.TTF	Albertus Medium
CGOR45W.TTF	CG Omega
CGOR46W.TTF	CG Omega Italic
CGOR65W.TTF	CG Omega Bold
CGOR66W.TTF	CG Omega Bold Italic
CGTR45W.TTF	CG Times
CGTR46W.TTF	CG Times Italic
CGTR65W.TTF	CG Times Bold
CGTR66W.TTF	CG Times Bold Italic
CLAR67W.TTF	Clarendon Condensed Bold

Installation instructions

General installation

NOTE:	If the HP LaserJet 8150 printer is connected through a file or print server, the HP LaserJet 8150 Printing System software must be installed on the server first before being installed on any client systems. If the HP LaserJet 8150 Printing System software is not installed on the server first, bidirectional communication, Driver Autoconfiguration, and Job Status and Alerts will not be available to the client systems.

1. Close all software applications, TSR programs, and virus checkers. Restart these programs after installation.
2. If you are installing from the CD-ROM, insert the CD-ROM into the CD-ROM drive.
3. If the CD-ROM auto-play begins, go to step 6.
4. If the installation CD-ROM does not begin to auto-play, select **Run** from the **Start** menu.
5. In the **Run** box, type the drive and path for the installation CD-ROM (usually D:\SETUP.EXE). If you are installing in a network environment from a shared Windows directory, see your network administrator for the correct drive and path.
6. Click **Install Printer** to begin installation, and then respond to each prompt that appears on the screen. Click **Next** to proceed to the next screen, or click **Back** to return to the previous screen.

NOTE:	If you downloaded the printing system electronically, you need to first run the downloaded .EXE file(s). If SETUP.EXE does not run automatically, browse to the root location of the downloaded SETUP.EXE file, double-select the file, and go to step 6.

Windows installation options	
Typical	**Custom**
PCL 6 printer driver Screen fonts Bidirectional communication Driver Autoconfiguration	PCL 6 printer driver PCL 5e printer driver PS printer driver Bidirectional communication Driver Autoconfiguration Job Status and Alerts Online User's Guide Ready Reference Guide Printing system release notes

NOTE: The HP LaserJet 8150 uninstaller is always added to the system when the HP LaserJet 8150 Printing System Installer is run.

Bidirectional communication and Driver Autoconfiguration are installed on the system only in supported network environments. Parallel and USB connections do not support bidirectional communication.

Driver only installation

1. Close all software applications.
2. Click **Start**, click **Settings**, and then click **Printers**.
3. Double-click **Add Printer**.
4. Answer the questions in the **Add Printer Wizard** dialog box until you reach the screen with the printer manufacturer list.
5. Click **Have Disk**.
6. Browse to the driver location using one of the options in this step:
   - Inbox CD-ROM option: Browse to the appropriate directory for your operating system and language.
   - Internet download option: Browse to the folder where the Web files were downloaded and decompressed.
7. Select the appropriate .INF file.
8. Click **Open**, and then click **OK**.
9. Select the appropriate printer.
10. Follow the remaining instructions to complete the printer installation. At this point, the driver is been copied to your hard disk and is included with the list of installed printers.

Point and Print installation

The following information will assist you as you install a printer driver using the Microsoft Point and Print function when you cannot view the printer on the network.

Point and Print is a Microsoft term that describes a driver installation process. It involves two steps. The first step is to install a shared driver on a network print server. The second step is to "point" to the print server from a network client so that the client can use the print driver. This process is also described as a network installation of a printer driver.

NOTE: This section outlines the procedures for installing print drivers with Point and Print. If these procedures are not successful, contact Microsoft. HP does not strictly support Point and Print, and the feature is a function of the Microsoft operating systems, not of HP print drivers.

Windows 2000 drivers written by HP are supported only on Intel X86 processor types. Any other processor types must use Windows 2000 drivers written by Microsoft.

Windows 2000 server and Windows 2000 or Windows NT 4.0 clients

1. Using the Add Printer Wizard, install the Windows 2000 driver on the server:
   a. Click **Start**, click **Settings**, and then click **Printers**.
   b. In the **Printers** folder, double-click the **Add Printer** icon to start the Add Printer Wizard.
   c. Select **Next** and select **My Computer**. Select **Next**.
   d. Select the appropriate port in the list of ports, or select **Add Port** to connect to a network port not in the list of available ports.
   e. Select the printer model in the list of available printers, or select **Have Disk** if installing the driver from an alternate source such as a diskette, CD-ROM, or software download. If installing from a software download, you must know the path to which the software has been downloaded.
   f. Complete the installation.
2. After the installation is complete, highlight the printer icon and select **File**, then select **Properties.** In the **Printer Properties** window, select the **Sharing** tab.
3. Under the **Sharing** tab, select **Shared:** and type in a share name. If desired, select the **Security** tab and select **Permissions** to modify the default user permissions of the printer. To exit **Properties**, select **OK**. A hand will appear below the printer icon in the **Printers** folder, indicating that the printer is shared.
4. From a Windows 2000 or Windows NT 4.0 client, you can install the driver using Point and Print in one of the following four ways:
   - In Network Neighborhood, locate the server and double-click the printer share name.
   - In Network Neighborhood, locate the server and drag and drop the icon for the shared printer into your **Printers** folder.
   - In the **Printers** folder, open the Add Printer Wizard and select **Network printer server**. Select **Next**. Enter the network path or queue name, or browse the network to locate the appropriate path.
   - In Network Neighborhood, locate the server and double-click. Then locate the printer share name and right-click. Select **Install**.
5. Complete the installation through the Add Printer Wizard.

NOTE:	To install the printer driver on the Windows NT 4.0 server, you must have administrator permission.

Windows 2000 server and Windows 9*x* clients

1. Install the Windows 2000 driver on the server using the Add Printer Wizard:
   a. Click **Start**, click **Settings**, and then click **Printers**.
   b. In the **Printers** folder, open the Add Printer Wizard. Select **Add Printer**; then select **File** and **Open from the Menu Bar**.
   c. Select **Next** and select **My Computer**. Select **Next**.
   d. Select the appropriate port in the list of ports, or select **Add Port** to connect to a network port not listed as an available port.
   e. Select the printer model in the list of available printers, or select **Have Disk** if installing the driver from an alternate source such as a diskette, CD-ROM, or software download. If installing from a software download, you must know the path to which the software has been downloaded.
   f. Complete the installation.
2. After the installation is complete, highlight the printer icon and select **File/Properties**. In the **Printer Properties** window, select the **Sharing** tab.
3. Under the **Sharing** tab, select **Shared:** and type in a share name. In the **Alternate Drivers** list, select Windows 9*x*. If desired, select the **Security** tab and select **Permissions** to modify the default user permissions of the printer. Select **OK**.
4. Select **OK** in the **Insert Disk** window.
5. In the **Printer Drivers for Windows 9*x*** window, enter the appropriate path for the Windows 95 printer driver .INF file. If the printer driver file is on a disk, insert the diskette or CD-ROM in the disk drive. Select **OK**.
6. Select **OK** again to confirm the path for the Windows 9*x* .INF file. Windows NT will then copy the Windows 9x printer driver files. A hand will appear beneath the printer icon in the Windows 2000 Printers folder, indicating that it is shared.
7. You may install the driver from a Windows 9*x* client using Point and Print in one of the following three ways:
   - In Network Neighborhood, locate the server and double-click the printer share name.
   - In Network Neighborhood, locate the server and drag and drop the icon for the shared printer into your **Printers** folder.
   - In the **Printers** folder, open the Add Printer Wizard and select **Network Printer**. Select **Next**. Enter the network path or queue name, or browse the network to locate the appropriate path.
8. Complete the installation through the Add Printer Wizard.

NOTE:	To install the Windows 2000 printer driver on the Windows 2000 server, you must have administrator permission. The Windows 2000 printer .INF file must contain the same printer name as the Windows 9*x* printer .INF file. Point and Print installation of a PostScript driver is only supported with a Microsoft Windows 9*x* PostScript driver v. 4.0 or greater.

Setting a default printer

1. Click **Start**, click **Settings**, and then click **Printers**.
2. Select the printer you wish to set as the default printer.
3. From the **File** menu, select **Set As Default**.
   A check appears next to the menu option.
4. Click **Close**.

Uninstalling printing system components

CAUTION: Hewlett-Packard strongly recommends using the Uninstaller to remove printing system components. Removing printing system components and files manually can impact the operation of other installed components of this printing system, as well as components of other printing systems installed on this computer. Additionally, system integrity can be affected by removing files from the printing system. Before removing any files, perform a complete backup of the system.

1. From the **Start** menu, click **Programs**.
2. Select **HP LaserJet 8150**.
3. Select **HP LaserJet 8150 Uninstaller**.
4. Select a component to uninstall by checking the appropriate box. Then, click **Next**. The program automatically removes selected printing system components.
5. You may be asked to restart your computer.

Macintosh

Font support

To ensure you can use all installed fonts with the HP LaserJet 8150 printer, the Macintosh printing system includes the standard 35 screen fonts in 11 families:

- Avant Garde
- Bookman
- Courier
- Helvetica
- Helvetica Narrow
- New Century Schoolbook
- Palatino
- Symbol
- Times
- Zapf Chancery
- Zapf Dingbats

Plus the HP 45 XPS font families:

- Albertus Extra Bold
- Albertus Medium
- Antique Olive
- Arial
- CG Omega
- CG Times
- Clarendon Condensed Bold
- Coronet
- Courier
- Garamond
- Letter Gothic
- Marigold
- Symbol
- Times New Roman
- Univers
- Univers Condensed
- Wingdings

The following bitmap screen fonts reside on the HP LaserJet 8150 printer:

- ITC Avant Garde Gothic Book
- ITC Avant Garde Gothic Book Oblique
- ITC Avant Garde Gothic Demi
- ITC Avant Garde Gothic Demi Oblique
- ITC Bookman Demi
- ITC Bookman Demi Italic
- ITC Bookman Light
- ITC Bookman Light Italic
- Courier
- Courier Bold
- Courier Bold Oblique
- Courier Oblique
- Helvetica
- Helvetica Bold
- Helvetica Bold Oblique
- Helvetica Oblique
- Helvetica Narrow
- Helvetica Narrow Bold
- Helvetica Narrow Bold Oblique
- Helvetica Narrow Oblique
- New Century Schoolbook Bold
- New Century Schoolbook Bold Italic
- New Century Schoolbook Italic
- New Century Schoolbook Roman
- Palatino
- Palatino Bold
- Palatino Bold Italic
- Palatino Italic
- Symbol
- Times Bold
- Times Bold Italic
- Times Italic
- Times Roman
- ITC Zapf Chancery Medium Italic
- ITC Zapf Dingbats

The following fonts are resident on all HP LaserJet 8150 printers but can be used by Macintosh platforms only by installing additional screen fonts. You can use these screen fonts either from the HP LaserJet 8150 Printing System Installer CD-ROM or from the HP Web site at http://www.hp.com.

- Albertus Extra Bold
- Albertus Medium
- Antique Olive
- Antique Olive Bold
- Antique Olive Italic
- Arial
- Arial Bold
- Arial Bold Italic
- Arial Italic
- CG Omega
- CG Omega Bold
- CG Omega Bold Italic
- CG Omega Italic
- CG Times
- CG Times Bold
- CG Times Bold Italic
- CG Times Italic
- Clarendon Condensed Bold
- Coronet
- Courier
- Courier Bold
- Courier Bold Oblique
- Courier Italic
- Garamond Antiqua
- Garamond Halbfett
- Garamond Kursiv
- Garamond Kursiv Halbfett
- Letter Gothic
- Letter Gothic Bold
- Letter Gothic Italic
- CG Times Bold Italic
- Marigold
- Symbol
- Times New Roman
- Times New Roman Bold
- Times New Roman Bold Italic
- Times New Roman Italic
- Univers Bold
- Univers Bold Italic
- Univers Condensed Bold Italic
- Univers Condensed Medium
- Univers Condensed Medium Italic
- Univers Medium
- Univers Medium Italic
- Univers Italic
- Wingdings

Installing the Macintosh printing system

On a Macintosh-compatible computer, the installation procedures are the same for a Network administrator, a Network client, and a single user. Install the software on any computer that is printing to the printer.

NOTE:	If the computer is connected to the printer by a LocalTalk (Printer Port) or EtherTalk connection, the AppleTalk (or Network) control panel must be configured for the correct connection to communicate with the printer.

The Macintosh partition contains an installer program for each language. Find the language that is appropriate for the operating system being used, and use the installer program for that language.

Uninstalling the Macintosh printing system

To uninstall the Macintosh Printing System, drag the PPDs and the unwanted component(s) to the Trash.

In-box disk layout

The Macintosh Printing System consists of one file:

- HP LaserJet 8150 Installer - Integrated installer program

IBM OS/2 Warp, 3.0 and greater

Font support

NOTE:	Fonts can be downloaded to the printer by using the Font Installer feature of the printer driver.

- Albertus
- Albertus Extra Bold
- Antique Olive
- Antique Olive Bold
- Antique Olive Italic
- Arial
- Arial Bold
- Arial Bold Italic
- Arial Italic
- CG Omega
- CG Omega Bold
- CG Omega Bold Italic
- CG Omega Italic
- CG Times
- CG Times Bold
- CG Times Bold Italic
- CG Times Italic
- Clarendon Condensed
- Coronet
- Courier
- Courier Bold
- Courier Bold Italic
- Courier Italic
- Garamond Antiqua
- Garamond Halbfett
- Garamond Kursiv
- Garamond Kursiv Halbfett
- Letter
- Letter Bold
- Letter Italic
- Line Printer
- Marigold
- Symbol
- Times New Roman
- Times New Roman Bold
- Times New Roman Bold Italic
- Times New Roman Italic
- Univers
- Univers Bold
- Univers Bold Italic
- Univers Italic
- Univers Condensed
- Univers Condensed Bold
- Univers Condensed Bold Italic
- Univers Condensed Medium Italic
- Wingdings

OS/2 installation instructions

NOTE:	Installation procedures differ depending on whether or not a printer object does or does not exist on the OS/2 Desktop being used. Use the instructions that match the Desktop.

Installing a printer in OS/2 when a printer object does not appear on the computer's desktop

NOTE:	Use this procedure if the OS/2 Desktop does not have a printer object. A system can have this configuration if no printer was selected during OS/2 installation, or all the print objects have been deleted from the Desktop.

To create a printer object and install a printer driver use the following procedures:

1. Open the templates folder that is located in OS/2 system folder after OS/2 installation.
2. Select the **Printer** template. Press and hold the right mouse button.
3. Drag the template to **Desktop**.
4. Release the right mouse button.
5. Type a name for the printer in the **Name** field.
6. Select a port to which the printer is connected.
7. Click **Install new printer driver**. A window appears with a list of the printer drivers that are shipped with O/S2.
8. Click **Other** printer driver.
9. Point to the downloaded printer drivers.
10. Click **Refresh**. Wait until the window fills with printer drivers.
11. Select one or more drivers by clicking the left mouse button over the desired driver.
12. Click **Install**.

Installing a printer in OS/2 when a printer object does appear on your desktop

NOTE:	If the old 16-bit HP LaserJet driver is installed on a system, delete it before installing this driver. Use these directions if a printer object does exist on the OS/2 desktop, but you do not have the correct printer driver installed on the system. This could happen if a different printer was added to the system.

To install a new printer driver and use an existing printer object, use the following procedure

1. Select the **Printer** object using the right mouse button.
2. Click **Settings**.
3. Click the **Printer Driver** tab.
4. Select one of the **Printer Driver** objects using the right mouse button.
5. Click **Install**.
6. Select **Other OS/2** printer driver.
7. Point to the downloaded printer drivers.
8. Click the **Refresh** button. Wait until the window fills with printer drivers.
9. Select one or more drivers by clicking the left mouse button over the desired driver.
10. Click the **Install** button.

Additional information about the OS/2 drivers is included in the readme files that come with each driver.

Changing a printer driver in the printer object

Once both the printer object and the printer driver have been installed, the correct printer driver should be selected in the print object. This might also be necessary if using different printer drivers with a single print object. To change to a different printer driver:

1. Right-click the **Printer object**.
2. Click **Settings**.
3. Click the **Printer Driver** tab.
4. Double-click on the **Title-bar** icon.

The printer object is now set up to use a different printer driver. To customize the settings for this printer driver, see "Changing the Printer Properties" or "Changing the Job Properties."

Changing the printer properties

Printer Properties describes how a particular printer is physically set up. Examples of printer properties include the amount of memory in a printer, forms defined by the printer, forms associated with the printer paper trays, and installed printer patterns.
To set or change printer properties:

1. Point to the **Printer** object. Right-click the **Printer** object.
2. Click **Settings**.
3. Click the **Printer Driver** tab.
4. Select the printer driver, and then right-click the mouse button.
5. Click **Settings**.
6. Change the properties to match the printer setup.
7. Double-click the **title-bar** icon.

The printer object is now set up to print a job. For information about how to print a job, see the OS/2 tutorial or the information folder for information on printing.

Changing the job properties

Job Properties describes how a particular print job is printed. Examples of job properties include number of copies, print resolution, print quality, and orientation (portrait or landscape). Applications generally allow the selection of a printer object (sometimes referred to as a printer queue) and they allow you to change the job properties associated with a particular job by selecting on setup or options buttons. There are times, such as when performing drag-n-drop printing, when it is appropriate to change job properties outside of an application.

To change the default job properties associated with a printer object outside of an application:

1. Right-click the **Printer** object.
2. Click **Settings**.
3. Click the **Job Properties** tab.
4. Change the properties.
5. Click **Save**.

The default job properties associated with a printer object are now set up. For more information about how to print a job, see the OS/2 tutorial or the information folder.

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