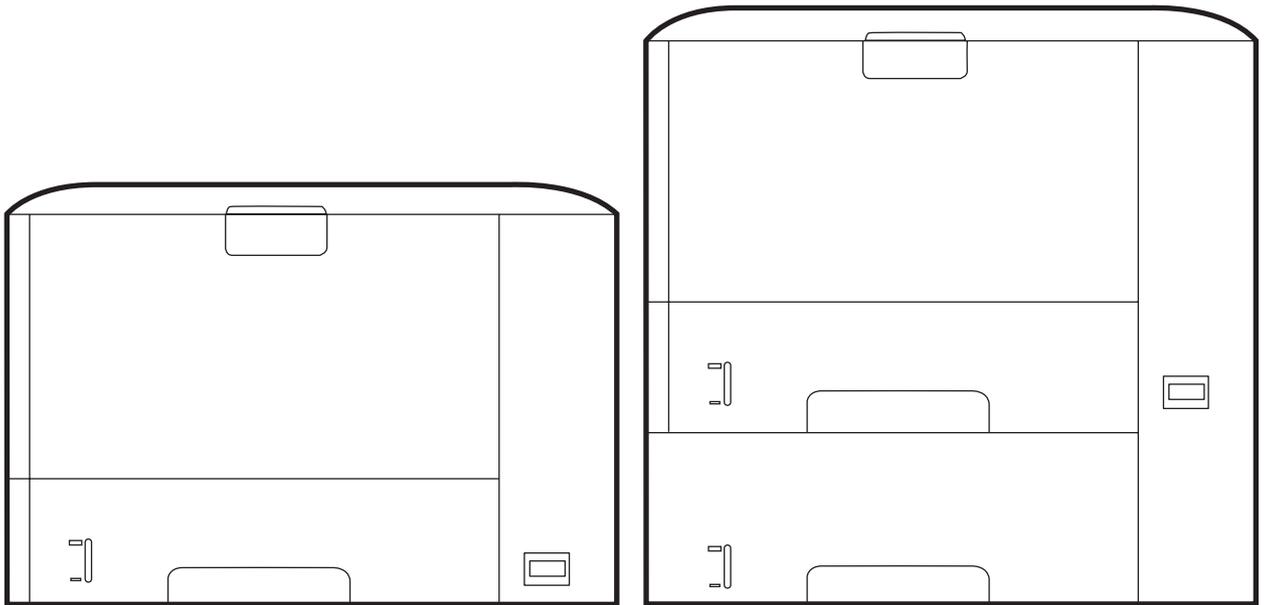


HP LaserJet P3005 Series Printers

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HP LaserJet P3005 Series printers

Service Manual



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Part number: Q7812-90910

Edition 1, 10/2006

Safety information

WARNING!

Potential Shock Hazard

Always follow basic safety precautions when using this product to reduce risk of injury from fire or electric shock.

Read and understand all instructions in the user guide.

Observe all warnings and instructions marked on the product.

Use only a grounded electrical outlet when connecting the product to a power source. If you do not know whether the outlet is grounded, check with a qualified electrician.

Do not touch the contacts on the end of any of the sockets on the product. Replace damaged cords immediately.

Unplug this product from wall outlets before cleaning.

Do not install or use this product near water or when you are wet.

Install the product securely on a stable surface.

Install the product in a protected location where no one can step on or trip over the power cord and where the power cord will not be damaged.

If the product does not operate normally, see the online user guide.

Refer all servicing questions to qualified personnel.

Information regarding FCC Class B, Parts 15 and 68 requirements can be found in the user guide.

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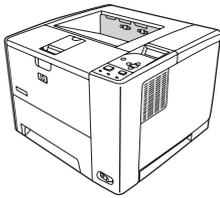
1 Device information

Chapter contents

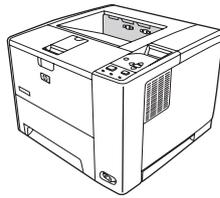
- [Device configurations](#)
- [Features](#)
- [Walkaround](#)
- [Device software](#)
- [Media specifications](#)

Device configurations

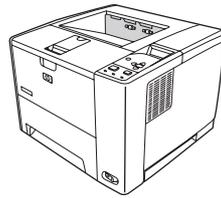
HP LaserJet P3005



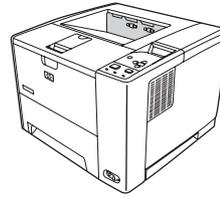
HP LaserJet P3005d



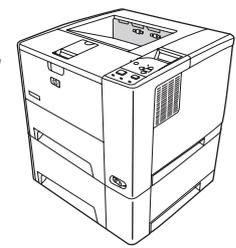
HP LaserJet P3005n



HP LaserJet P3005dn



HP LaserJet P3005x



- Prints up to 35 pages-per-minute (ppm) on letter-sized media, and up to 33 ppm on A4-sized media
- 48 megabytes (MB) total of random access memory (RAM)
- 100-sheet multipurpose tray (tray 1), 500-sheet input tray (tray 2), and 250-sheet output bin
- Hi-Speed universal serial bus (USB) 2.0 port
- One open dual inline memory module (DIMM) slot
- Enhanced input/output (EIO) slot
- IEEE 1284B-compliant parallel connection port (not available on network-connected models)

HP LaserJet P3005, plus:

- Automatic two-sided printing accessory
- 64 MB total RAM
- IEEE 1284B-compliant parallel connection port

- Prints up to 35 pages-per-minute (ppm) on letter-sized media, and up to 33 ppm on A4-sized media

- 80 MB total RAM
- 100-sheet multipurpose tray (tray 1), 500-sheet input tray (tray 2), and 250-sheet output bin

- Hi-Speed universal serial bus (USB) 2.0 port
- One open dual inline memory module (DIMM) slot

- Enhanced input/output (EIO) slot
- HP Jetdirect full-featured embedded print server to connect to 10Base-T/100Base-TX networks

HP LaserJet P3005n, plus:

- Automatic two-sided printing accessory

HP LaserJet P3005n, plus:

- Automatic two-sided printing accessory
- 500-sheet input tray (tray 3)

Features

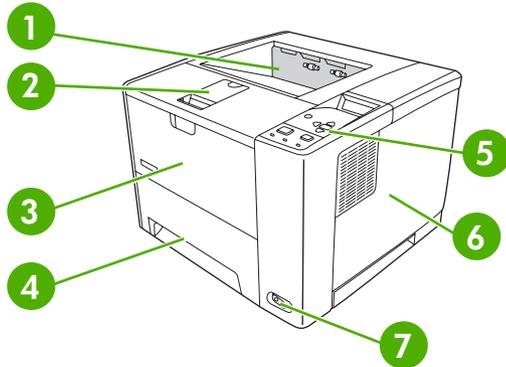
Feature	Description
Performance	<ul style="list-style-type: none">● 400 MHz processor
User interface	<ul style="list-style-type: none">● Control-panel help● HP Easy Printer Care software (a Web-based status and problem-solving tool)● Windows® and Macintosh printer drivers● Embedded Web server to access support and order supplies (for network-connected models only)
Printer drivers	<ul style="list-style-type: none">● HP PCL 5● HP PCL 6● HP postscript level 3 emulation
Resolution	<ul style="list-style-type: none">● FastRes 1200—produces 1200-dots-per-inch (dpi) print quality for fast, high-quality printing of business text and graphics● ProRes 1200—produces 1200-dpi printing for the best quality in line art and graphic images
Storage features	<ul style="list-style-type: none">● Fonts, forms, and other macros● Job retention
Fonts	<ul style="list-style-type: none">● 93 internal scalable fonts available for PCL and HP postscript 3 emulation● 80 device-matching screen fonts in TrueType format available with the software solution● Additional fonts can be added through the host USB ports
Accessories	<ul style="list-style-type: none">● Optional 500-sheet input tray (tray 3) (available for all models except HP LaserJet P3005x)● Automatic duplexer (available only on models HP LaserJet P3005d, HP LaserJet P3005dn, and HP LaserJet P3005x)● 144-pin dual inline memory module (DIMM)
Connectivity	<ul style="list-style-type: none">● Hi-Speed USB 2.0 connection● HP Jetdirect full-featured embedded print server (available only on models HP LaserJet P3005n, HP LaserJet P3005dn, and HP LaserJet P3005x)● IEEE-1284 compliant parallel port (available only on models HP LaserJet P3005 and HP LaserJet P3005d)● HP Web Jetadmin software● Enhanced input/output (EIO) slot
Environmental features	<ul style="list-style-type: none">● Sleep mode● ENERGY STAR® qualified

Feature	Description
Supplies	<ul style="list-style-type: none"><li data-bbox="512 222 1430 275">● The supplies status page contains information about toner level, page count, and estimated pages remaining.<li data-bbox="512 300 1203 327">● The device checks for an authentic HP print cartridge at installation.<li data-bbox="512 352 1355 380">● Internet-enabled supply-ordering capabilities (using HP Easy Printer Care software)
Accessibility	<ul style="list-style-type: none"><li data-bbox="512 401 1139 428">● The online user guide is compatible with text screen-readers.<li data-bbox="512 453 1209 480">● The print cartridge can be installed and removed by using one hand.<li data-bbox="512 506 1090 533">● All doors and covers can be opened by using one hand.<li data-bbox="512 558 1031 585">● Media can be loaded in tray 1 by using one hand.

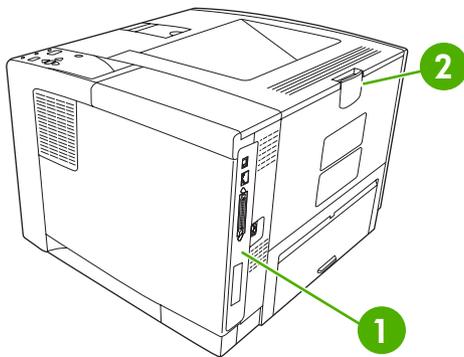
Walkaround

Device parts

Before using the device, familiarize yourself with the parts of the device.



1	Top output bin
2	Latch to open the cartridge door (provides access to the print cartridge)
3	Tray 1 (pull to open)
4	Tray 2
5	Control panel
6	Right-side cover (provides access to DIMMs)
7	On/off switch



1	Interface ports (see Interface ports on page 6)
2	Rear output bin (pull to open)

The model number and serial numbers are listed on the identification labels located on the back of the device. The model number is alphanumeric, such as Q7812A for an HP LaserJet P3005 printer. The

serial number contains information about the country/region of origin, the device version, production code, and the production number of the device. The following is a sample identification label.

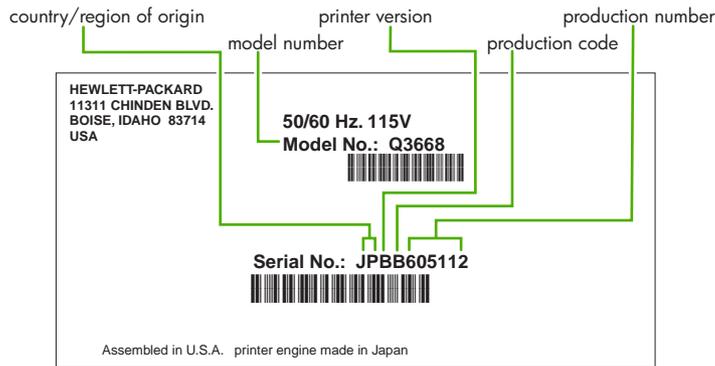
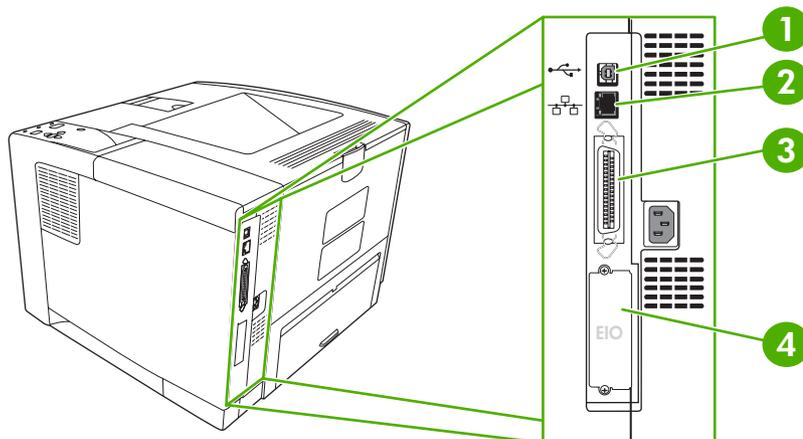


Figure 1-1 Model and serial numbers

Model name	Model number
HP LaserJet P3005	Q7812A
HP LaserJet P3005d	Q7813A
HP LaserJet P3005n	Q7814A
HP LaserJet P3005dn	Q7815A
HP LaserJet P3005x	Q7816A

Interface ports

The device has one EIO slot and three ports for connecting to a computer or a network.

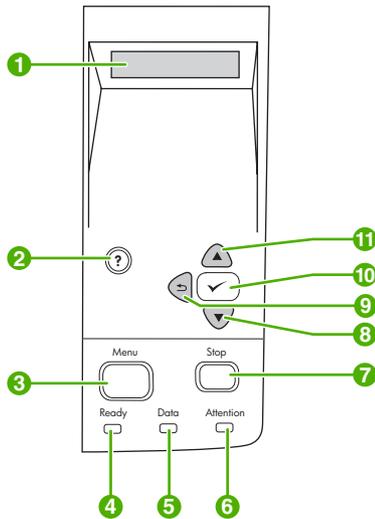


1	Type B Hi-Speed USB 2.0 connection
2	RJ-45 network connection (available only on models P3005n, P3005dn, and P3005x)
3	IEEE 1284B-compliant parallel connection (available only on models P3005 and P3005d)
4	EIO slot

Control-panel layout

The control-panel display gives you complete, timely information about the device and print jobs. Menus provide access to device functions and detailed information.

The message and prompt areas of the display alert you to the state of the device and tell you how to respond.



Number	Button or light	Function
1	Control-panel display	<ul style="list-style-type: none"> Shows status information, menus, help information, and error messages.
2	Help (?) button	<ul style="list-style-type: none"> Provides information about the message on the control-panel display.
3	Menu button	<ul style="list-style-type: none"> Opens and closes the menus.
4	Ready light	<ul style="list-style-type: none"> On: The device is online and ready to accept data to print. Off: The device cannot accept data because it is offline (paused) or has experienced an error. Blinking: The device is going offline. The device stops processing the current print job and expels all of the active pages from the paper path.
5	Data light	<ul style="list-style-type: none"> On: The device has data to print, but is waiting to receive all of the data. Off: The device has no data to print. Blinking: The device is processing or printing the data.
6	Attention light	<ul style="list-style-type: none"> On: The device has experienced a problem. Make note of the message on the control-panel display, and then turn the device off and on. See Control-panel messages on page 131 for help in resolving problems. Off: The device is functioning without error. Blinking: Action is required. See the control-panel display.
7	Stop button	<ul style="list-style-type: none"> Cancels the current print job and clears the pages from the device. The time this takes depends on the size of the print job. (Press the button

Number	Button or light	Function
		<p>only once.) Also clears continuable errors that are associated with the canceled job.</p> <hr/> <p> NOTE The control-panel lights cycle while the print job is cleared from both the device and the computer, and then the device returns to the Ready state.</p> <hr/>
8	Down (▼) button	<ul style="list-style-type: none"> • Navigates to the next item in the list, or decreases the value of numeric items
9	Back (↶) button	<ul style="list-style-type: none"> • Backs up one level in the menu tree or backs up one numeric entry • Closes menus if held down for more than 1 second
10	Select (✓) button	<ul style="list-style-type: none"> • Clears an error condition when the condition is clearable • Saves the selected value for an item • Performs the action that is associated with the item that is highlighted on the control-panel display
11	Up (▲) button	<ul style="list-style-type: none"> • Navigates to the previous item in the list, or increases the value of numeric items

Device software

The printing-system software is included with the device. See the getting started guide for installation instructions.

The printing system includes software for end users and network administrators, and printer drivers for access to the device features and communication with the computer.



NOTE For a list of printer drivers and updated HP device software, go to www.hp.com/go/LJP3005_software.

Minimum system requirements

In order to install and use the device software, your computer must meet the following minimum requirements:

Windows requirements

- Pentium II (233 MHz) processor
- 64 MB of RAM
- 35 MB of disk space
- SVGA 800x600 16-bit color monitor

Macintosh requirements

- G3, G4, or G5 PowerPC processor
- 128 MB of RAM
- 30 to 50 MB of disk space

Supported operating systems

The device supports the following operating systems:

Full software installation

- Windows XP (32-bit)
- Windows 2000
- Mac OS X V10.2 and later

Printer driver only

- Windows 98 SE
- Windows Millennium Edition (Me)
- Windows Server 2003
- Windows XP (64-bit)
- Linux

Supported printer drivers

Operating system ¹	PCL 5	PCL 6	PS level 3 emulation
Windows ^{2,3}	✓	✓	✓
Mac OS X V10.2 and later			✓
Linux ⁴			✓

¹ Not all device features are available from all drivers or operating systems.

² For Windows 2000 and Windows XP (32-bit and 64-bit), download the PCL 5 driver from www.hp.com/go/LJP3005_software.

³ For Windows XP (64-bit), download the PCL 6 driver from www.hp.com/go/LJP3005_software.

⁴ For Linux, download the postscript level 3 emulation driver from www.hp.com/go/linuxprinting.

The printer drivers include online Help that has instructions for common printing tasks and also describes the buttons, checkboxes, and drop-down lists that are in the printer driver.

Software for Windows computers

HP Web Jetadmin

HP Web Jetadmin is a browser-based management tool for HP Jetdirect-connected printers within your intranet, and it should be installed only on the network administrator's computer.

To download a current version of HP Web Jetadmin and for the latest list of supported host systems, visit www.hp.com/go/webjetadmin.

When installed on a host server, any client can gain access to HP Web Jetadmin by using a supported Web browser (such as Microsoft® Internet Explorer 4.x or Netscape Navigator 4.x or later) by navigating to the HP Web Jetadmin host.

HP Easy Printer Care software

The HP Easy Printer Care software is a program that you can use for the following tasks:

- Checking the device status
- Checking the supplies status
- Setting up alerts
- Viewing device documentation
- Gaining access to troubleshooting and maintenance tools

You can view the HP Easy Printer Care software when the device is directly connected to your computer or when it is connected to a network. To download the HP Easy Printer Care software, go to www.hp.com/go/easyprintercare.

Supported operating systems

For information about supported operating systems, go to www.hp.com/go/easyprintercare.

Supported browsers

To use the HP Easy Printer Care software, you must have one of the following browsers:

- Microsoft Internet Explorer 5.5 or later
- Netscape Navigator 7.0 or later
- Opera Software ASA Opera 6.05 or later

All pages can be printed from the browser.

Software for Macintosh computers

The HP installer provides PostScript® Printer Description (PPD) files, Printer Dialog Extensions (PDEs), and the HP Printer Utility for use with Macintosh computers.

For network connections, use the embedded Web server (EWS) to configure the device. See [Embedded Web server on page 11](#).

The printing system software includes the following components:

- **PostScript Printer Description (PPD) files**

The PPDs, in combination with the Apple PostScript printer drivers, provide access to device features and allows the computer to communicate with the device.

An installation program for the PPDs, PDEs, and other software is provided on the CD-ROM. Use the appropriate PS driver that comes with the operating system.

- **HP Printer Utility**

Use the HP Printer Utility to set up device features that are not available in the printer driver:

- Name the device.
- Assign the device to a zone on the network.
- Assign an internet protocol (IP) address to the device.
- Download files and fonts.
- Configure the device for IP or AppleTalk printing.

You can use the HP Printer Utility when your device uses a universal serial bus (USB) cable or is connected to a TCP/IP-based network. For more information, see [Use the HP Printer Utility for Macintosh on page 43](#).



NOTE The HP Printer Utility is supported for Mac OS X V10.2 or later.

Other software

Embedded Web server

The device is equipped with an embedded Web server, which provides access to information about device and network activities. This information appears in a Web browser, such as Microsoft Internet Explorer or Netscape Navigator.

The embedded Web server resides on the device. It is not loaded on a network server.

The embedded Web server provides an interface to the device that anyone who has a network-connected computer and a standard Web browser can use. No special software is installed or configured, but you must have a supported Web browser on your computer. To gain access to the embedded Web server, type the IP address for the device in the address line of the browser. (To find the IP address, print a configuration page. For more information about printing a configuration page, see [Use information pages on page 38.](#))

For a complete explanation of the features and functionality of the embedded Web server, see [Use the embedded Web server on page 41.](#)

Uninstall software

Remove software from Windows operating systems

1. Click **Start**, and then click **All Programs**.
2. Click **HP**, and then click **HP LaserJet P3005**.
3. Click **Uninstall HP LaserJet P3005**, and then follow the onscreen instructions to remove the software.

Remove software from Macintosh operating systems

To remove the software from a Macintosh computer, drag the PPD files to the trash can.