

HP LaserJet P4010 and P4510 Series Printers

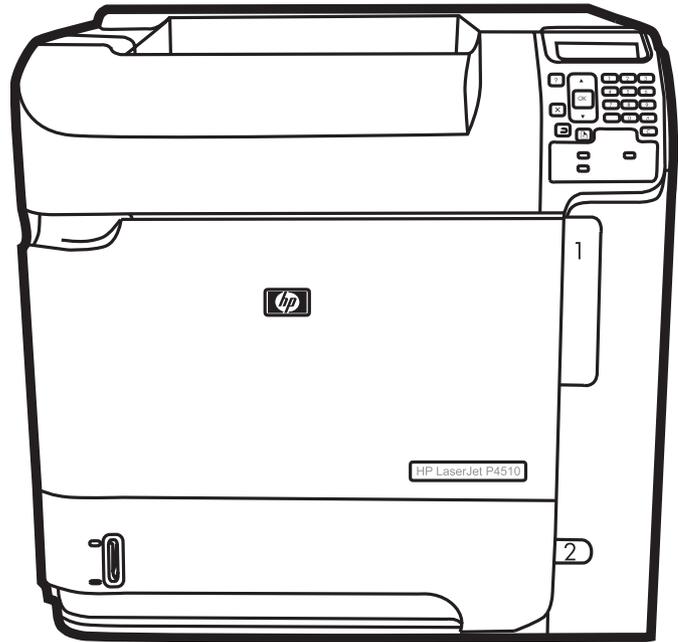
Product: 2008 HP LaserJet P4010 and P4510 Series Printers Service Repair Workshop Manual

Full Download: <https://www.arespairmanual.com/downloads/2008-hp-laserjet-p4010-and-p4510-series-printers-service-repair-workshop-manual/>

10-and-p4510-series-printers-service-repair-workshop-manual/



Service Manual



Sample of manual. Download All 534 pages at:

<https://www.arespairmanual.com/downloads/2008-hp-laserjet-p4010-and-p4510-series-printers-service-repair-workshop-manual/>

Product: 2008 HP LaserJet P4010 and P4510 Series Printers Service Repair Workshop Manual

Full Download: <https://www.arepairmanual.com/downloads/2008-hp-laserjet-p40>

[10-and-p4510-series-printers-service-repair-workshop-manual/](https://www.arepairmanual.com/downloads/2008-hp-laserjet-p4010-and-p4510-series-printers-service-repair-workshop-manual/)

Sample of manual. Download All 534 pages at:

<https://www.arepairmanual.com/downloads/2008-hp-laserjet-p4010-and-p4510-series-printers-service-repair-workshop-manual/>

HP LaserJet P4010 and P4510 Series Printers Service Manual



Copyright and License

© 2008 Copyright Hewlett-Packard Development Company, L.P.

Reproduction, adaptation, or translation without prior written permission is prohibited, except as allowed under the copyright laws.

The information contained herein is subject to change without notice.

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Part number: CB506-90950

Edition 1, 3/2008

Trademark Credits

Adobe®, Acrobat®, and PostScript® are trademarks of Adobe Systems Incorporated.

Microsoft®, Windows®, and Windows®XP are U.S. registered trademarks of Microsoft Corporation.

Windows Vista™ is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

UNIX® is a registered trademark of The Open Group.

ENERGY STAR and the ENERGY STAR mark are registered U.S. marks.

Table of contents

1 Product basics

Quick access to product information	2
Product comparison	3
HP LaserJet P4014 models	3
HP LaserJet P4015 models	4
HP LaserJet P4515 models	5
Product features	6
Product walkaround	8
Front view	8
Rear view	9
Interface ports	10
Model and serial-number label location	11
Supported operating systems	12
Supported product software	13
Software included with the product	13
Software for Windows	13
HP Web Jetadmin	13
Embedded Web server	13
HP Easy Printer Care	14
Software for Macintosh	14
HP Printer Utility	14
Supported printer drivers	16
Supported printer drivers for Windows	16
Supported printer drivers for Macintosh	16
Software for other operating systems	17
Connectivity	18
Supported network protocols	18

2 Control panel

Control-panel layout	20
Use the control-panel menus	22
Show Me How menu	23
Retrieve Job menu	24
Information menu	25

Paper Handling menu	26
Configure Device menu	27
Printing submenu	27
Print Quality submenu	30
System Setup submenu	33
Stapler Stacker submenu	37
MBM-5 (multi-bin mailbox) submenu	37
I/O submenu	38
Resets submenu	44
Diagnostics menu	45
Service menu	46

3 Paper and print media

Supported paper and print media sizes	48
Supported paper and print media types	50
Supported paper types for input options	50
Supported paper types for output options	51
Tray and bin capacity	52
Special paper or print media guidelines	53
Load trays	54
Paper orientation for loading trays	54
Load letterhead, preprinted, or prepunched paper	54
Load envelopes	55
Load Tray 1	56
Load Tray 2 or an optional 500-sheet tray	57
Load an optional 1,500-sheet tray	59
Configure trays	61
Configure a tray when loading paper	61
Configure a tray to match print job settings	61
Configure a tray by using the Paper Handling menu	62
Select the paper by source, type, or size	62
Source	62
Type and size	62
Use paper output options	63
Print to the top (standard) output bin	63
Print to the rear output bin	63
Print to the optional stacker or stapler/stacker	64
Print to the 5-bin mailbox	64

4 Manage and maintain the product

Print the information and show-me-how pages	66
Use the HP Easy Printer Care software	68
Open the HP Easy Printer Care software	68

HP Easy Printer Care software sections	68
Use the embedded Web server	71
Open the embedded Web server by using a network connection	71
Embedded Web server sections	72
Use HP Web Jetadmin software	74
Use security features	75
IP Security	75
Secure the embedded Web server	75
Secure stored jobs	75
Lock the control panel menus	76
Lock the formatter cage	77
Manage supplies	78
Supplies life	78
Approximate print-cartridge replacement intervals	78
Manage the print cartridge	78
Print-cartridge storage	78
Use genuine HP print cartridges	78
HP policy on non-HP print cartridges	78
Print-cartridge authentication	79
HP fraud hotline and Web site	79
Replace supplies and parts	79
Supply replacement guidelines	79
Change the print cartridge	80
Load staples	82
Perform preventive maintenance	83
Reset the maintenance-kit counter	83
Install memory, internal USB devices, and external print server cards	84
Overview	84
Install memory	84
Install product memory	84
Check DIMM installation	88
Save resources (permanent resources)	88
Enable memory for Windows	89
Install internal USB devices	90
Install HP Jetdirect print server cards	93
Install an HP Jetdirect print server card	93
Remove an HP Jetdirect print server card	94
Clean the product	95
Clean the exterior	95
Clean the paper path	95
Clean the paper path automatically	95
Upgrade the firmware	96
Determine the current firmware version	96
Download new firmware from the HP Web site	96

Transfer the new firmware to the product	96
Use FTP to upload the firmware through a browser	96
Use FTP to upgrade the firmware on a network connection	97
Use HP Web Jetadmin to upgrade the firmware	98
Use Microsoft Windows commands to upgrade the firmware	98
Upgrade the HP Jetdirect firmware	98

5 Theory of operation

Basic operation	102
Major print systems	102
Internal components	103
Operating sequence	106
Engine-control system	108
DC controller PCA	108
Motors and fans	109
Failure detection	110
Motor failure	110
Fan motor failure	110
Engine power supply	110
Fuser-control circuit	110
Low-voltage power supply	112
High-voltage power supply	112
Overcurrent/overvoltage protection	113
Laser/scanner system	114
Laser failure detection	115
Image-formation system	116
Image-formation process	116
Block 1: Latent image formation	117
Step 1: Primary charging	117
Step 2: Laser-beam exposure	118
Block 2: Developing	118
Step 3: Developing	118
Block 3: Transfer	119
Step 4: Transfer	119
Step 5: Separation	120
Block 4: Fusing	120
Step 6: Fusing	120
Block 5: Drum cleaning	120
Step 7: Drum cleaning	121
Step 8: Drum charge elimination	121
Pickup, feed, and delivery system	122
Pickup-and-feed block	123
Fuser/delivery block	124

Paper trays	124
Printing from Tray 1	124
Printing from Tray 2	124
Formatter system	124
Sleep mode	125
Resolution Enhancement technology	125
EconoMode	125
Input/output	126
USB	126
Embedded print server	126
Expanded I/O	126
Hard-disk accessory	126
CPU	126
Product memory	126
Read-only memory	126
Random-access memory	126
DIMM slot	126
Nonvolatile memory	127
Memory Enhancement technology	127
PJM overview	127
PML	127
Control panel	127

6 Removal and replacement

Removal and replacement strategy	130
Warnings, cautions, notes, and tips	130
Electrostatic discharge	130
Required tools	131
Service approach	132
Before performing service	132
After performing service	132
Post-service tests	133
Test 1 (print-quality test)	133
Types of screws	134
Parts removal order	135
Product input trays and cabinet wheel locks	136
DC controller diagram	137
User-replaceable parts	139
Print cartridge	139
Memory DIMM	141
Tray 2	142
Tray 2 separation, pickup, and feed rollers	143
Transfer roller	145

Top-accessory cover	146
Envelope feed accessory covers	147
Duplex accessory or cover	148
Tray 2 extension door	149
Rear output bin	150
Fuser	151
Formatter cover, formatter cage, and formatter PCA	152
Reinstallation notes, formatter	153
Installing a new formatter and a new DC controller	153
Service replaceable parts	154
Tray 1 pickup and feed rollers	154
Tray 1 separation roller	157
Registration assembly	159
Top cover	161
Right-side cover	163
Reinstall the right cover	164
Left-side cover	166
Right-front cover	168
Rear-upper cover	171
Control-panel assembly	172
Front cover	174
Fan FN102	176
Fan FN103	178
Pickup-motor assembly (M101)	180
Drum-motor assembly (M102)	182
Lifter-motor assembly (M103)	185
DC controller PCA	188
Reinstallation tip	191
Installing a new formatter and a new DC controller	191
Pickup-drive assembly	192
Reinstall the pickup-drive assembly	196
Fuser-motor assembly (M299)	197
Drum-drive assembly	199
Reinstall the drum-drive assembly	201
Fan FN101	202
Fan FN301	204
Environmental sensor (TH3)	206
High voltage power supply	208
Feed-guide assembly	213
Reinstall the feed-guide assembly	214
Tray 1 paper-pickup assembly	216
Feed-roller assembly	218
Laser/scanner assembly	219
Paper-delivery assembly	221

Reinstall the paper-delivery assembly	224
1,500-sheet feeder assembly	225
1,500-sheet feeder feed rollers	225
1,500-sheet feeder separation roller	226
1,500-sheet feeder rear cover	227
1,500-sheet feeder right-side cover	228
1,500-sheet feeder left-side cover	229
1,500-sheet feeder door	232
1,500-sheet feeder motor	234
1,500-sheet feeder driver PCA	235
1,500-sheet feeder lift-drive assembly	236

7 Solve problems

Troubleshooting checklist	240
Menu map	241
Troubleshooting process	242
Power-on checks	242
Overview	242
Troubleshooting tools	245
Individual component diagnostics	245
LED diagnostics	245
Understand lights on the formatter	245
Formatter test	246
Engine diagnostics	246
Engine test	246
Half self test	247
Drum rotation test	247
Paper path sensors test	248
Paper path test	250
Sensor test (interactive)	250
Manual sensor test (special mode test)	250
Manual sensor test 2 (special mode test)	258
Print/stop test	259
Component tests	261
Diagrams	262
Block diagrams	262
Main assemblies	262
Main parts	263
Motors and fans	264
PCAs	265
500-sheet feeder	265
1,500-sheet feeder	266
Connectors	268

DC controller PCA connectors	268
Product base connectors	270
500-sheet paper tray connectors	270
1,500-sheet paper tray connectors	271
Duplexer connectors	272
Envelope feeder connectors	272
General timing chart	273
Circuit diagrams	273
Print quality troubleshooting tools	280
Repetitive image defect ruler	280
Cleaning page	280
Control-panel messages	282
Event log messages	302
Print an event log	302
Show an event log	302
Sample event log	303
Paper-handling problems	304
Jams	304
Common causes of jams	304
Jam locations	306
Clear jams	307
Clear jams from the top-cover and print-cartridge areas	307
Clear jams from the optional envelope feeder	309
Clear jams from the trays	311
Clear jams from the optional duplexer	314
Clear jams from the fuser area	315
Clear jams from the output areas	320
Jam recovery	325
Product feeds incorrect page size	326
Output is curled or wrinkled	327
Product will not duplex or duplexes incorrectly	328
Solve image quality problems	329
Image defects	329
Solve performance problems	334
Solve connectivity problems	335
Solve direct-connect problems	335
Solve network connectivity problems	335
Solve network printing problems	335
Ping test	336
Service mode functions	337
Service menu	337
Product resets	338
Restore factory-set defaults	338
Hard disk initialization	338

NVRAM initialization	338
Service ID	339
Restore the service ID	339
Convert the service ID to an actual date	339
Reset page counts	339
Cold reset paper	339

8 Parts

Order parts, accessories, and supplies	342
Order directly from HP	342
Order through service or support providers	342
Order directly through the HP Easy Printer Care software	342
Order replacement parts	342
Paper-handling accessories	343
Print cartridges	344
Maintenance kits	344
Memory	345
Cables and interfaces	345
Paper	346
How to use the parts lists and diagrams	349
Customer/field-replaceable units	350
Assembly locations	352
Covers	356
Internal components	358
PCAs	386
Input devices	392
Output devices	416
Alphabetical parts list	425
Numerical parts list	460

Appendix A Service and support

Hewlett-Packard limited warranty statement	495
Print cartridge limited warranty statement	496
Customer self-repair warranty service	497
Customer support	498
HP maintenance agreements	499
On-site service agreements	499
Next-day on-site service	499
Weekly (volume) on-site service	499
Repacking the device	499
Extended warranty	500

Appendix B Specifications

Physical specifications	502
Electrical specifications	502
Acoustic specifications	504
Operating environment	504

Appendix C Regulatory information

FCC regulations	506
Declaration of conformity	507
Declaration of conformity	507
Safety statements	508
Laser safety	508
Canadian DOC regulations	508
VCCI statement (Japan)	508
Power cord statement (Japan)	508
EMI statement (Korea)	508
Laser statement for Finland	509
Substances table (China)	510

Index	511
--------------------	------------

1 Product basics

- [Quick access to product information](#)
- [Product comparison](#)
- [Product features](#)
- [Product walkaround](#)
- [Supported operating systems](#)
- [Supported product software](#)
- [Connectivity](#)

Quick access to product information

Use the following Web site to find information about the product.

- www.hp.com/support/hpljp4010series or www.hp.com/support/hpljp4510series

Table 1-1 Product guides

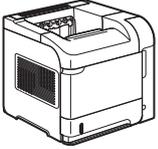
Guide	Description
<i>HP LaserJet P4010 and P4510 Series Getting Started Guide</i>	Provides step-by-step instructions for installing and setting up the product.
<i>HP LaserJet P4010 and P4510 Series Series User Guide</i>	Provides detailed information for using the product and problem-solving. Available on the product CD or in the Windows Program Group if the software is installed on a computer.
HP Easy Printer Care	To check the product status and settings, and to view problem-solving information and online documentation, use the HP Easy Printer Care. You must have performed a complete software installation in order to use the HP Easy Printer Care. See the user guide for more information about software installation.
Online Help	Provides information about options that are available in the printer drivers. To view a Help file, open the online Help through the printer driver.

Product comparison

HP LaserJet P4014 models

HP LaserJet P4014 printer

CB506A



HP LaserJet P4014n printer

CB507A



-
- Prints up to 45 pages per minute (ppm) on Letter size paper and 43 ppm on A4 size paper
 - Contains 96 megabytes (MB) of random access memory (RAM). Expandable to 640 MB.
 - HP print cartridge, rated for up to 10,000 pages
 - Tray 1 holds up to 100 sheets
 - Tray 2 holds up to 500 sheets
 - 500-sheet face-down output bin
 - 100-sheet face-up output bin
 - 4-line graphical control-panel display
 - Hi-speed USB 2.0 port
 - Enhanced input/output (EIO) slot
 - One open dual inline memory module (DIMM) slot
- Has the same features as the HP LaserJet P4014 printer, plus the following:
- Embedded HP Jetdirect networking
 - Contains 128 MB RAM. Expandable to 640 MB.
-

HP LaserJet P4015 models

HP LaserJet P4015n printer

CB509A



HP LaserJet P4015tn printer

CB510A



HP LaserJet P4015x printer

CB511A



-
- | | | |
|--|--|---|
| <ul style="list-style-type: none">● Prints up to 52 pages per minute (ppm) on Letter size paper and 50 ppm on A4 size paper● Embedded HP Jetdirect networking● Contains 128 megabytes (MB) of random access memory (RAM). Expandable to 640 MB.● HP print cartridge, rated for up to 10,000 pages● Tray 1 holds up to 100 sheets● Tray 2 holds up to 500 sheets● 500-sheet face-down output bin● 100-sheet face-up output bin● 4-line graphical control-panel display● Numeric keypad● Hi-speed USB 2.0 port● Enhanced input/output (EIO) slot● One open dual inline memory module (DIMM) slot | <p>Has the same features as the HP LaserJet P4015n printer, plus the following:</p> <ul style="list-style-type: none">● One additional 500-sheet input tray (Tray 3) | <p>Has the same features as the HP LaserJet P4015n printer, plus the following:</p> <ul style="list-style-type: none">● One additional 500-sheet input tray (Tray 3)● Duplex-printing accessory for automatic printing on both sides |
|--|--|---|
-

HP LaserJet P4515 models

HP LaserJet P4515n printer

CB514A



HP LaserJet P4515tn printer

CB515A



HP LaserJet P4515x printer

CB516A



HP LaserJet P4515xm printer

CB517A



- Prints up to 62 pages per minute (ppm) on Letter size paper and 60 ppm on A4 size paper
- Embedded HP Jetdirect networking
- Contains 128 megabytes (MB) of random access memory (RAM). Expandable to 640 MB.
- HP print cartridge, rated for up to 10,000 pages
- Tray 1 holds up to 100 sheets
- Tray 2 holds up to 500 sheets
- 500-sheet face-down output bin
- 100-sheet face-up output bin
- 4-line graphical control-panel display
- Numeric keypad
- Hi-speed USB 2.0 port
- Enhanced input/output (EIO) slot
- One open dual inline memory module (DIMM) slot

Has the same features as the HP LaserJet P4515n printer, plus the following:

- One additional 500-sheet input tray (Tray 3)

Has the same features as the HP LaserJet P4515n printer, plus the following:

- One additional 500-sheet input tray (Tray 3)
- Duplex-printing accessory for automatic printing on both sides

Has the same features as the HP LaserJet P4515n printer, plus the following:

- One additional 500-sheet input tray (Tray 3)
- Duplex-printing accessory for automatic printing on both sides
- One 500-sheet, 5-bin mailbox for sorting jobs

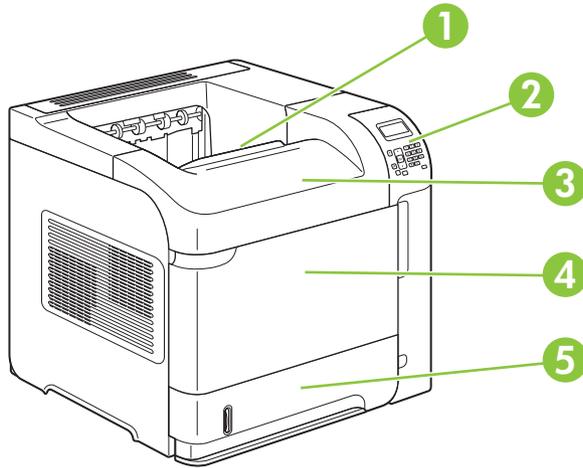
Product features

Feature	Description
Performance	<ul style="list-style-type: none">● 400 MHz processor
User interface	<ul style="list-style-type: none">● Control-panel help● Four-line graphical display with numeric keypad. (The keypad is not included for the HP LaserJet P4014 models.)● 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 Universal Print Driver for Windows (HP UPD PCL 5)● HP PCL 6● HP postscript emulation Universal Print Driver for Windows (HP UPD PS)
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● 600 dpi—provides the fastest printing
Storage features	<ul style="list-style-type: none">● Fonts, forms, and other macros● Job retention
Fonts	<ul style="list-style-type: none">● 103 internal scalable fonts available for PCL and 93 for HP UPD postscript emulation● 80 device-matching screen fonts in TrueType format available with the software solution● Additional fonts can be added through USB
Accessories	<ul style="list-style-type: none">● HP 500-sheet input tray (up to four additional trays)● HP 1,500-sheet high-capacity input tray● HP LaserJet 75-sheet envelope feeder● HP LaserJet printer stand● HP LaserJet automatic duplexer● HP LaserJet 500-sheet stacker● HP LaserJet 500-sheet stapler/stacker● HP LaserJet 500-sheet 5-bin mailbox <p>NOTE: Each model can accept up to four optional 500-sheet input trays or up to three 500-sheet input trays and one 1,500-sheet high-capacity input tray. If a 1,500-sheet high-capacity input tray is installed, it must always be below the other trays.</p>
Connectivity	<ul style="list-style-type: none">● Hi-Speed USB 2.0 connection● HP Jetdirect full-featured embedded print server (optional for the HP LaserJet P4014 printer) with IPv4, IPv6, and IP Security.

Feature	Description
Supplies	<ul style="list-style-type: none"> ● HP Web Jetadmin software ● Enhanced input/output (EIO) slot <hr/> <ul style="list-style-type: none"> ● The supplies status page contains information about toner level, page count, and estimated pages remaining. ● The product checks for an authentic HP print cartridge at installation. ● Internet-enabled supply-ordering capabilities (using HP Easy Printer Care)
Supported operating systems	<ul style="list-style-type: none"> ● Microsoft® Windows® 2000, Windows® XP, and Windows Vista™ ● Macintosh OS X, V10.2.8 , V10.3, V10.4, V10.5, and later ● Novell NetWare ● Unix® ● Linux
Accessibility	<ul style="list-style-type: none"> ● The online user guide is compatible with text screen-readers. ● The print cartridge can be installed and removed by using one hand. ● All doors and covers can be opened by using one hand. ● Paper can be loaded in Tray 1 by using one hand.

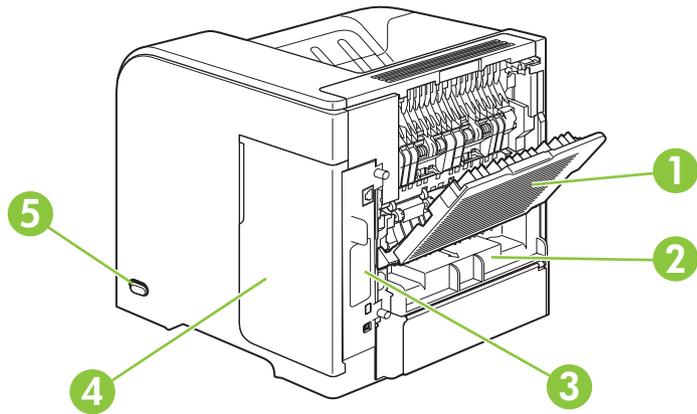
Product walkaround

Front view



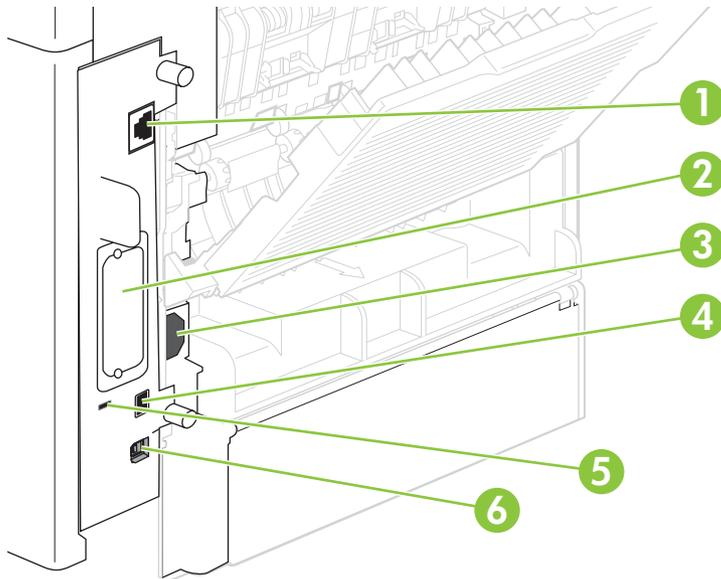
1	Top output bin
2	Control panel
3	Top cover (provides access to the print cartridge)
4	Tray 1 (pull to open)
5	Tray 2

Rear view



1	Rear output bin (pull to open)
2	Duplex accessory cover (remove this to install the duplex printing accessory)
3	Interface ports
4	Right cover (provides access to the DIMM slot)
5	On/off switch

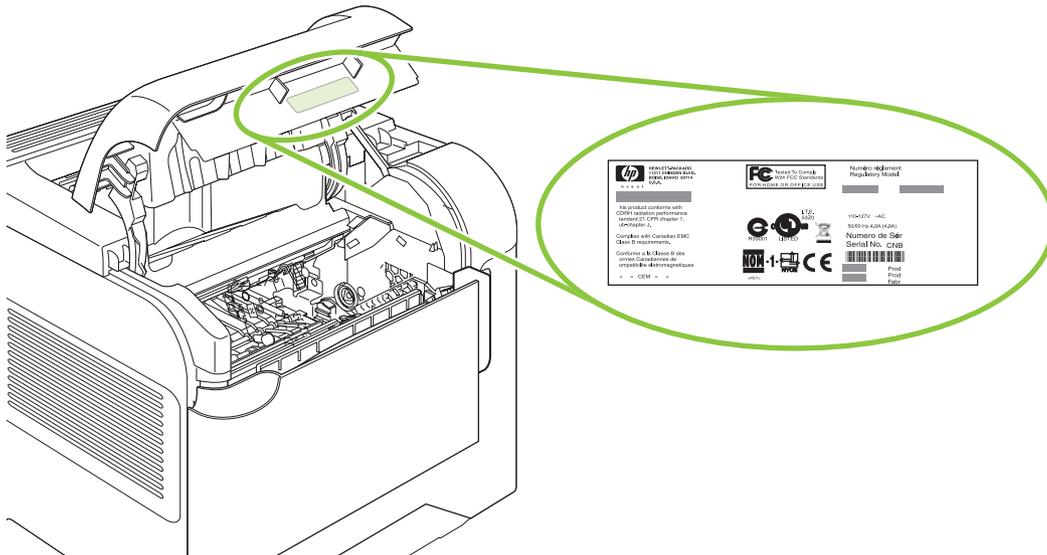
Interface ports



1	RJ.45 Network connection (not available for the HP LaserJet P4014 printer)
2	EIO slot
3	Power connection
4	Host USB connection, for adding fonts and other third-party solutions (this connection might have a removable cover)
5	Slot for a cable-type security lock
6	Hi-speed USB 2.0 connection, for connecting directly to a computer

Model and serial-number label location

The label that contains the model and serial numbers is on the inside of the top cover.



Supported operating systems

The product supports the following operating systems:

- Windows XP (32-bit and 64-bit)
- Windows Server 2003 (32-bit and 64-bit)
- Windows 2000
- Windows Vista (32-bit and 64-bit)
- Mac OS X V10.2.8, V10.3, V10.4, V10.5, and later

 **NOTE:** For Mac OS X V10.4 and later, PPC and Intel Core Processor Macs are supported.

Supported product software

Software included with the product

Software for Windows

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, a Windows 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.

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, Netscape Navigator, Apple Safari, or Firefox.

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 [Print the information and show-me-how pages on page 66](#).)

For a complete explanation of the features and functionality of the embedded Web server, see [Use the embedded Web server on page 71](#).

HP Easy Printer Care

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

- Check the product status
- Check the supplies status and use HP SureSupply to shop online for supplies
- Set up alerts
- View product usage reports
- View product documentation
- Gain access to troubleshooting and maintenance tools
- Use HP Proactive Support to routinely scan your printing system and to prevent potential problems. HP Proactive Support can update software, firmware, and HP printer drivers.

You can view HP Easy Printer Care software when the product is directly connected to your computer or when it is connected to a network.

Supported operating systems

- Microsoft® Windows 2000
- Microsoft Windows XP, Service Pack 2 (Home and Professional editions)
- Microsoft Windows Server 2003
- Microsoft Windows Vista™

Supported browsers

- Microsoft Internet Explorer 6.0 or 7.0
-

To download HP Easy Printer Care software, go to www.hp.com/go/easyprintercare. This Web site also provides updated information about supported browsers and a list of HP products that support HP Easy Printer Care software.

For more information about using HP Easy Printer Care software, see [Open the HP Easy Printer Care software on page 68](#).

Software for Macintosh

HP Printer Utility

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

You can use the HP Printer Utility when the product uses a universal serial bus (USB) cable or is connected to a TCP/IP-based network.

Open the HP Printer Utility

Open the HP Printer Utility in Mac OS X V10.2.8

1. Open the Finder, and then click **Applications**.
2. Click **Library**, and then click **Printers**.
3. Click **hp**, and then click **Utilities**.

4. Double-click **HP Printer Selector** to open the HP Printer Selector.
5. Select the product that you want to configure, and then click **Utility**.

Open the HP Printer Utility in Mac OS X V10.3 and V10.4

1. Open the Finder, click **Applications**, click **Utilities**, and then double-click **Printer Setup Utility**.
2. Select the product that you want to configure, and then click **Utility**.

Open the HP Printer Utility in Mac OS X V10.5

- From the **Printer** menu, click **Printer Utility**.

-or-

From the **Print Queue**, click the **Utility** icon.

The HP Printer Utility consists of pages that you open by clicking in the **Configuration Settings** list. The following table describes the tasks that you can perform from these pages.

Item	Description
Configuration Page	Prints a configuration page.
Supplies Status	Shows the device supplies status and provides links for online supplies-ordering.
HP Support	Provides access to technical assistance, online supplies ordering, online registration, and recycling and return information.
File Upload	Transfers files from the computer to the device.
Upload Fonts	Transfers font files from the computer to the device.
Firmware Update	Transfers updated firmware files from the computer to the device.
Duplex Mode	Turns on the automatic two-sided printing mode.
Economode & Toner Density	Turns on the Economode setting to conserve toner, or adjusts toner density.
Resolution	Changes the resolution settings, including the REt setting.
Lock Resources	Locks or unlocks storage products, such as a hard disk.
Stored Jobs	Manages print jobs that are stored on the device hard disk.
Trays Configuration	Changes the default tray settings.
IP Settings	Changes the device network settings and provides access to the embedded Web server.
Bonjour Settings	Provides the ability to turn on or off Bonjour support or change the device service name that is listed on a network.
Additional Settings	Provides access to the embedded Web server.
E-mail Alerts	Configures the device to send e-mail notices for certain events.

Supported printer drivers

Supported printer drivers for Windows

- HP PCL 5 Universal Print Driver (HP UPD PCL 5)
- HP PCL 6
- HP postscript emulation Universal Print Driver (HP UPD PS)

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.

 **NOTE:** For more information about the UPD, see www.hp.com/go/upd.

Supported printer drivers for Macintosh

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