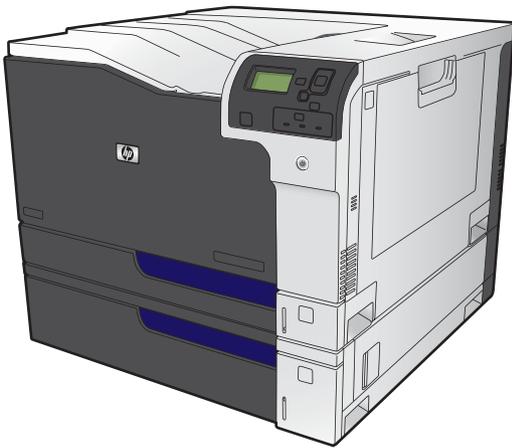




COLOR LASERJET ENTERPRISE CP5520

PRINTER SERIES

User Guide





HP Color LaserJet Enterprise CP5520 Series Printer

User Guide

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Conventions used in this guide

-  **TIP:** Tips provide helpful hints or shortcuts.
 -  **NOTE:** Notes provide important information to explain a concept or to complete a task.
 -  **CAUTION:** Cautions indicate procedures that you should follow to avoid losing data or damaging the product.
 -  **WARNING!** Warnings alert you to specific procedures that you should follow to avoid personal injury, catastrophic loss of data, or extensive damage to the product.
-

Table of contents

1 Product basics	1
Product comparison	2
Environmental features	3
Accessibility features	4
Product views	5
Front view	5
Back view	6
Interface ports	6
Serial number and model number location	7
Control panel layout	8
2 Control panel menus	9
Control panel menus	10
Sign In menu	10
Retrieve Job From USB menu	10
Retrieve Job From Device Memory menu	11
Supplies menu	12
Trays menu	14
Administration menu	15
Reports menu	15
General Settings menu	15
Retrieve From USB Settings menu	20
Print Settings menu	20
Print Options menu	21
Display Settings menu	23
Manage Supplies menu	24
Manage Trays menu	25
Network Settings menu	26
Troubleshooting menu	30
Device Maintenance menu	32
Backup/Restore menu	32
Calibration/Cleaning menu	32
USB Firmware Upgrade menu	33
Service menu	33

3 Software for Windows	35
Supported operating systems for Windows®	36
Supported printer drivers for Windows	36
Select the correct printer driver for Windows	37
HP Universal Print Driver (UPD)	38
UPD installation modes	38
Priority for print settings	39
Change printer-driver settings for Windows	40
Change the settings for all print jobs until the software program is closed	40
Change the default settings for all print jobs	40
Change the product configuration settings	40
Remove software for Windows	41
Supported utilities for Windows	42
HP Web Jetadmin	42
HP Embedded Web Server	42
Software for other operating systems	43
4 Use the product with Mac	45
Software for Mac	46
Supported operating systems for Mac	46
Supported printer drivers for Mac	46
Install software for Mac operating systems	46
Install software for Mac computers connected directly to the product	46
Install software for Mac computers on a wired network	47
Configure the IP address	47
Install the Mac software	48
Remove software from Mac operating systems	49
Priority for print settings for Mac	50
Change printer-driver settings for Mac	50
Software for Mac computers	51
HP Utility for Mac	51
Open the HP Utility	51
HP Utility features	51
Supported utilities for Mac	52
HP Embedded Web Server	52
Print with Mac	53
Cancel a print job with a Mac	53
Change the paper size and type with Mac	53
Resize documents or print on a custom paper size with Mac	53
Create and use printing presets with Mac	54
Print a cover page with Mac	54
Use watermarks with Mac	55
Print multiple pages on one sheet of paper with Mac	55

Print on both sides of the page (duplex printing) with Mac	55
Store jobs with Mac	56
Set the color options with Mac	57
Use the Services menu with Mac	57
Solve problems with a Mac	57
5 Connect the product	59
Supported network operating systems	60
Printer sharing disclaimer	60
Connect with USB	61
Connect to a network	61
Supported network protocols	61
Install the product on a wired network	64
Configure the IP address	64
Install the software	65
Configure network settings	66
View or change network settings	66
Set or change the network password	66
Manually configure IPv4 TCP/IP parameters from the control panel	67
Manually configure IPv6 TCP/IP parameters from the control panel	68
Link speed and duplex settings	69
6 Paper and print media	71
Understand paper use	72
Special paper guidelines	72
Change the printer driver to match the paper type and size	74
Supported paper sizes	75
Supported paper sizes for duplex printing	77
Supported paper types and tray capacity	78
Load paper trays	80
Load Tray 1	80
Load Tray 2, Tray 3, and optional Trays 4, 5, and 6 with standard-size paper	81
Load Tray 2, Tray 3, and optional Trays 4, 5, and 6 with custom-size paper	83
Tray and bin capacity	84
Paper orientation for loading trays	85
Paper orientation for loading Tray 1	86
Paper orientation for loading Tray 2, Tray 3, or optional Trays 4, 5, and 6	88
Configure trays	90
Configure a tray when loading paper	90
Configure a tray to match print job settings	90
Configure a tray from the control panel	90
Automatic paper sensing (auto-sense mode)	91
Auto-sense settings	91

Select the paper by source, type, or size	91
Source	91
Type and size	91

7 Manage supplies 93

Print cartridge information	94
Supplies views	94
Print cartridge views	94
Manage print cartridges	95
Settings for print cartridges	95
Print when a print cartridge is at estimated end of life	95
Enable or disable the Very Low Settings options from the control panel	95
Recycle supplies	96
Print-cartridge storage	96
HP policy on non-HP print cartridges	96
HP fraud hotline and Web site	97
Replacement instructions	98
Replace print cartridges	98
Replace the toner collection unit	100
Solve problems with supplies	103
Check the print cartridges	103
Inspect the print cartridge for damage	104
Repeating defects	105
Print the Supplies Status page	105
Interpret control panel messages for supplies	106

8 Print tasks 113

Cancel a print job	114
Basic print tasks with Windows	115
Open the printer driver with Windows	115
Get help for any printing option with Windows	116
Change the number of print copies with Windows	116
Save custom print settings for reuse with Windows	116
Use a printing shortcut with Windows	116
Create printing shortcuts	118
Improve print quality with Windows	121
Select the page size with Windows	121
Select a custom page size with Windows	121
Select the paper type with Windows	121
Select the paper tray with Windows	121
Select the print resolution	121
Print on both sides (duplex) with Windows	123
Manually print on both sides with Windows	123

Automatically print on both sides with Windows	124
Print multiple pages per sheet with Windows	126
Select page orientation with Windows	127
Set color options with Windows	129
Additional print tasks with Windows	131
Print colored text as black (grayscale) with Windows	131
Print on preprinted letterhead or forms with Windows	132
Print on special paper, labels, or transparencies	134
Print the first or last page on different paper with Windows	137
Scale a document to fit page size	139
Add a watermark to a document with Windows	141
Create a booklet with Windows	142
Use job storage features with Windows	143
Create a stored job with Windows	144
Print a stored job	145
Delete a stored job	146
Set job storage options with Windows	146
Print one copy for proof before printing all the copies	146
Temporarily store a personal job on the product and print it later ..	146
Temporarily store a job on the product	147
Permanently store a job on the product	147
Make a permanently stored job private so that anyone who tries to print it must provide a PIN	147
Receive notification when someone prints a stored job	148
Set the user name for a stored job	148
Specify a name for the stored job	148
Print special jobs with Windows	149
Print business graphics or marketing material	149
Supported glossy paper	149
Print weatherproof maps and outdoor signs	149
Supported tough paper	150
Set the duplex alignment	150
Walk-up USB printing	151
9 Color	153
Adjust color	154
Automatic	154
Print in Grayscale	154
Manual color adjustment	155
Manual color options	155
Use the HP EasyColor option	156
Match colors	157
Sample book color matching	157
Print color samples	158

PANTONE® color matching	158
Advanced color use	159
HP ColorSphere toner	159
HP ImageREt 3600	159
Paper selection	159
Color options	159
Standard red-green-blue (sRGB)	160

10 Manage and maintain 161

Print information pages	162
Print the menu map	162
Print the configuration report	162
Use the HP Embedded Web Server	163
Open the HP Embedded Web Server by using a network connection	163
Features	164
Information tab	164
General tab	164
Print tab	165
Troubleshooting tab	165
Security tab	166
Networking tab	166
Other Links list	166
Use HP Web Jetadmin software	167
Product security features	168
Security statements	168
IP Security	168
Secure the HP Embedded Web Server	168
Encryption support: HP Encrypted High Performance Hard Disks	168
Secure stored jobs	169
Lock the control panel menus	169
Lock the formatter	169
Economy settings	170
Optimize speed or energy usage	170
Power-saving modes	170
Set sleep mode	170
Set sleep delay	171
Wake time	171
Set the real-time clock	171
Set the wake time	172
Install external I/O cards	173
Clean the product	175
Clean the paper path	175
Product updates	176

11 Solve problems	177
Self help	178
Solve general problems	179
Troubleshooting checklist	179
Factors that affect product performance	180
Restore factory settings	180
Interpret control-panel messages	181
Control-panel message types	181
Control-panel messages	181
Clear jams	182
Prevent jams	182
Jam locations	183
Clear jams in the upper right door	184
Clear jams in the lower right door	186
Clear jams in Tray 1	187
Clear jams from Tray 2, Tray 3, or an optional tray	189
Clear jams in the output bin area	190
Change jam recovery	191
Paper does not feed automatically	192
Product feeds multiple sheets	193
Improve print quality	194
Select a paper type	194
Use paper that meets HP specifications	194
Print a cleaning page	195
Calibrate the product	195
Set the image registration	195
Internal print-quality test pages	196
Check the print cartridge	196
Use the printer driver that best meets your printing needs	197
Repetitive defects ruler	198
The product does not print or it prints slowly	199
Solve walk-up USB printing problems	200
The Open From USB menu does not open when you insert the USB accessory	200
The file does not print from the USB storage accessory	200
The file that you want to print is not listed in the Open From USB menu	200
Solve connectivity problems	201
Solve direct-connect problems	201
Solve network problems	201
Solve software problems	202
Solve common Windows problems	203
Solve common Mac problems	203

Appendix A Supplies and accessories	207
Order parts, accessories, and supplies	208
Part numbers	209
Accessories	209
Print cartridges	209
Memory	209
Cables and interfaces	209
Maintenance kits	210
 Appendix B Service and support	 211
Hewlett-Packard limited warranty statement	212
HP's Premium Protection Warranty: LaserJet print cartridge limited warranty statement	214
Color LaserJet Fuser Kit, Toner Collection Unit, and Transfer Kit Limited Warranty Statement	215
Data stored on the print cartridge	216
End User License Agreement	217
Customer self-repair warranty service	220
Customer support	221
 Appendix C Product specifications	 223
Physical specifications	224
Power consumption, electrical specifications, and acoustic emissions	224
Environmental specifications	224
 Appendix D Regulatory information	 225
FCC regulations	226
Environmental product stewardship program	227
Protecting the environment	227
Ozone production	227
Power consumption	227
Paper use	227
Plastics	227
HP LaserJet print supplies	227
Return and recycling instructions	228
United States and Puerto Rico	228
Multiple returns (more than one cartridge)	228
Single returns	228
Shipping	228
Non-U.S. returns	228
Paper	229
Material restrictions	229
Disposal of waste equipment by users in private households in the European Union	229
Chemical substances	230
Material Safety Data Sheet (MSDS)	230

For more information	230
Declaration of conformity	231
Safety statements	233
Laser safety	233
Canadian DOC regulations	233
VCCI statement (Japan)	233
Power cord instructions	233
Power cord statement (Japan)	233
EMC statement (China)	234
EMC statement (Korea)	234
EMI statement (Taiwan)	234
Laser statement for Finland	234
GS statement (Germany)	235
Substances Table (China)	235
Restriction on Hazardous Substances statement (Turkey)	235

Index	237
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1 Product basics

- [Product comparison](#)
- [Environmental features](#)
- [Accessibility features](#)
- [Product views](#)

Product comparison

Model	Features
HP Color LaserJet CP5525n	<ul style="list-style-type: none">• 100-sheet multipurpose input tray (Tray 1)• 250-sheet input tray (Tray 2)• 500-sheet input tray (Tray 3)• 300-sheet, face-down output bin• Hi-Speed USB 2.0 port• HP Jetdirect embedded print server for connecting to a 10/100/1000Base-TX network• 1 gigabyte (GB) of random access memory (RAM)• USB port on the control panel for walk-up printing
	
HP Color LaserJet CP5525dn	<ul style="list-style-type: none">• 100-sheet multipurpose input tray (Tray 1)• 250-sheet input tray (Tray 2)• 500-sheet input tray (Tray 3)• 300-sheet, face-down output bin• Hi-Speed USB 2.0 port• HP Jetdirect embedded print server for connecting to a 10/100/1000Base-TX network• 1 GB of RAM• USB port on the control panel for walk-up printing• Automatic two-sided printing
	
HP Color LaserJet CP5525xh	<ul style="list-style-type: none">• 100-sheet multipurpose input tray (Tray 1)• 250-sheet input tray (Tray 2)• 500-sheet input tray (Tray 3)• HP 3 x 500-sheet paper feeder (Trays 4, 5, and 6)• 300-sheet, face-down output bin• Hi-Speed USB 2.0 port• HP Jetdirect embedded print server for connecting to a 10/100/1000Base-TX network• 1 GB of RAM• USB port on the control panel for walk-up printing• Automatic two-sided printing• HP Encrypted High Performance Hard Disk
	

Environmental features

Duplex	Save paper by using duplex printing as your default print setting.
Print multiple pages per sheet	Save paper by printing two or more pages of a document side-by-side on one sheet of paper. Access this feature through the printer driver.
Recycling	Reduce waste by using recycled paper. Recycle print cartridges by using the HP return process.
Energy savings	Save energy by initiating sleep mode for the product.
HP Smart Web printing	Use HP Smart Web printing to select, store, and organize text and graphics from multiple Web pages and then edit and print exactly what you see onscreen. It gives you the control you need for printing meaningful information while minimizing waste. Download HP Smart Web printing from this Web site: www.hp.com/go/smartweb .
Job storage	Use the job storage features to manage print jobs. By using job storage, you activate printing while you are at the shared product, eliminating lost print jobs that are then reprinted.

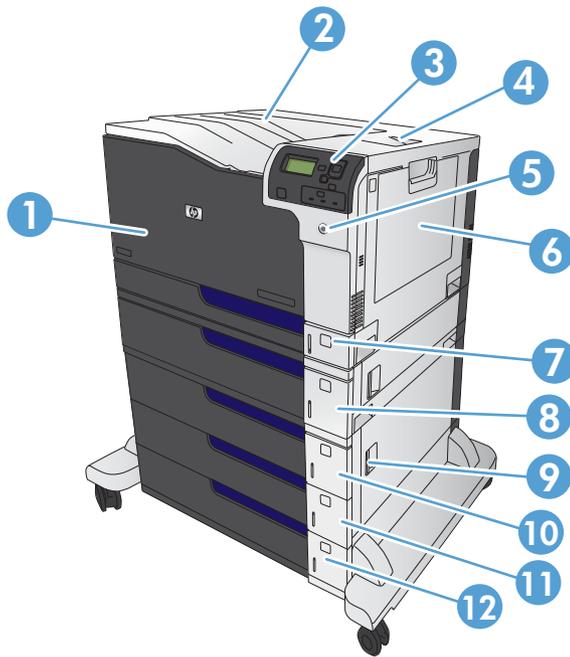
Accessibility features

The product includes several features that aid you with accessibility issues.

- Online user guide that is compatible with text screen-readers.
- Print cartridges 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.

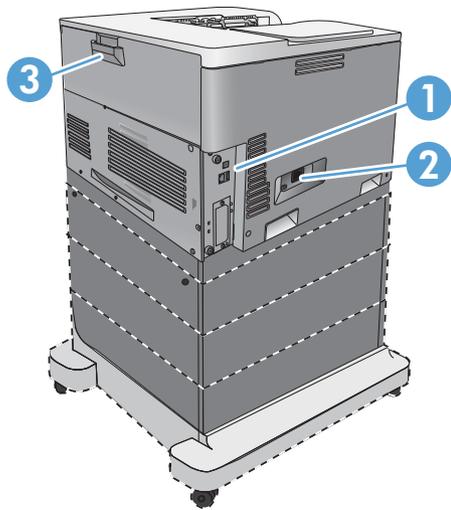
Product views

Front view



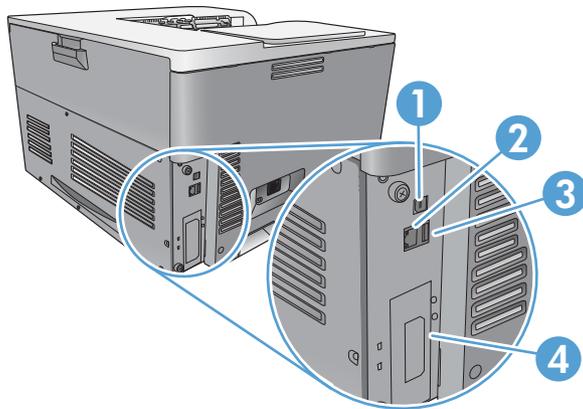
1	Front door (access to print cartridges)
2	Standard output bin
3	Control panel
4	Right door (access for clearing jams)
5	On/off button (illuminates when turned on)
6	Tray 1 (pull the handle to open the tray)
7	Tray 2
8	Tray 3
9	Lower right door (access for clearing jams)
10	Optional Tray 4 (included with the HP Color LaserJet CP5525xh model)
11	Optional Tray 5 (included with the HP Color LaserJet CP5525xh model)
12	Optional Tray 6 (included with the HP Color LaserJet CP5525xh model)

Back view



1	Interface ports
2	Power connection
3	Rear door (access to the toner collection unit)

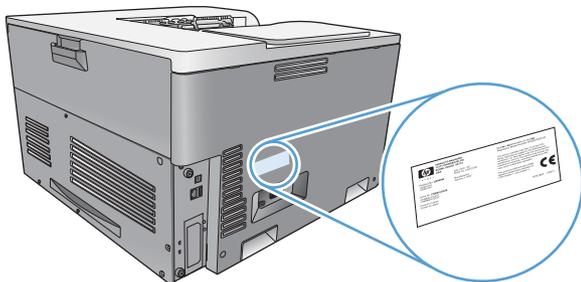
Interface ports



1	Hi-Speed USB 2.0 printing port
2	Local area network (LAN) Ethernet (RJ-45) network port
3	USB port for a third-party device
4	EIO interface expansion slot

Serial number and model number location

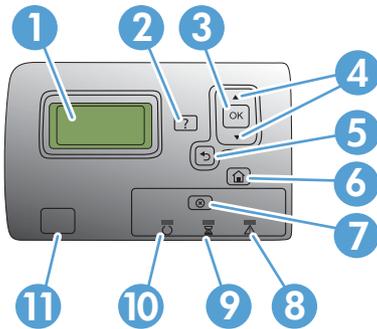
The model number and serial number are listed on an identification label located on the left side of the product. The serial number contains information about the country/region of origin, the product version, production code, and the production number of the product.



Model name	Model number
HP Color LaserJet CP5525n	CE707A
HP Color LaserJet CP5525dn	CE708A
HP Color LaserJet CP5525xh	CE709A

Control panel layout

The control panel includes a color, graphical and text display, job-control buttons, and three light-emitting diode (LED) status lights.



1	Control panel display	Shows status information, menus, help information, and error messages
2	 Help button	Provides detailed information, including animations, about product messages or menus
3	OK button	Makes selections and resumes printing after continuable errors
4	 Up arrow button	Navigates menus and text, and increases the values of numerical items in the display
	 Down arrow button	Navigates menus and text, and decreases the values of numerical items in the display
5	 Back arrow button	Navigates backward in nested menus
6	 Home button	Opens and closes the menu structure
7	 Stop button	Halts the current job, presents a choice to resume or cancel the current job, clears paper from the product, and clears any continuable errors that are associated with the halted job. If the product is not printing a job, pressing the Stop button pauses the product
8	 Attention light	Indicates that the product has a condition that requires intervention TIP: For example, an empty paper tray or an error message on the display.
	 Data light	Indicates that the product is receiving data
10	 Ready light	Indicates that the product is ready to begin processing any job
	Walk-up USB port	Connect a USB flash drive for walk-up printing TIP: Use the control-panel menus or the HP Embedded Web Server to enable the USB walk-up printing feature.
11	Walk-up USB port	Connect a USB flash drive for walk-up printing TIP: Use the control-panel menus or the HP Embedded Web Server to enable the USB walk-up printing feature.

2 Control panel menus

- [Control panel menus](#)
- [Sign In menu](#)
- [Retrieve Job From USB menu](#)
- [Retrieve Job From Device Memory menu](#)
- [Supplies menu](#)
- [Trays menu](#)
- [Administration menu](#)
- [Troubleshooting menu](#)
- [Device Maintenance menu](#)

Control panel menus

To use all of the capabilities of this product, a firmware upgrade might be required. HP recommends that you periodically go to www.hp.com/support/cljcp5525 to see if a new version of firmware is available.

 **NOTE:** Print a configuration page to determine the version of firmware currently installed in this product.

Navigate the control-panel menus

- Press the Home button  to access the menus.
- Use the up arrow button  and down arrow button  to highlight a desired menu item.
- Press the **OK** button to select the menu item.

Sign In menu

Table 2-1 Sign In menu

First level	Second level	Values
User Access Code	Access Code	
Administrator Access Code	Access Code	
Service Access Code	Access Code	

Retrieve Job From USB menu

Use the **Retrieve Job From USB** menu to view listings of jobs stored on an external USB memory device.

 **NOTE:** You must enable this feature by using the control-panel menus or the HP Embedded Web Server before it can be used.

To enable this feature by using the control-panel menus, access the **Administration** menu, **Retrieve From USB Settings** sub menu, and then select **Enable**. To enable this feature by using the HP Embedded Web Server, access the **Print** tab.

Table 2-2 Retrieve Job From USB menu

First level	Second level	Values
Retrieve Job From USB		OK
		Cancel
	Select a File or Folder	Select from the provided list.

Retrieve Job From Device Memory menu

Use the **Retrieve Job From Device Memory** menu to view listings of jobs stored on the internal product memory.

Table 2-3 Retrieve Job From Device Memory menu

First level	Second level	Third level	Values
Retrieve Job From Device Memory	All Jobs (No PIN) NOTE: Individual job name also appear.	Print	Range: 1 – 9999 Default = 1
		Delete	Select from the provided list.

Supplies menu

In the following table, asterisks (*) indicate the factory default setting.

Table 2-4 Supplies menu

First level	Second level	Third level	Fourth level	Values	
Manage Supplies	Print Supplies Status	Supply Settings	Black Cartridge	Very Low Settings	Stop
					Prompt to continue*
					Continue
				Low Threshold Settings	1-100%
		Color Cartridges		Very Low Settings	Stop
	Prompt to continue*				
					Continue
				Low Threshold Settings	Cyan Cartridge 1-100%
					Magenta Cartridge
					Yellow Cartridge
		Fuser		Very Low Settings	Stop
					Prompt to continue*
				Continue	
			Low Threshold Settings	1-100%	
	Transfer Kit		Very Low Settings	Stop	
				Prompt to continue*	
				Continue	
			Low Threshold Settings	1-100%	
	Color/Black Mix			Auto*	
				Mostly Color Pages	
				Mostly Black Pages	

Table 2-4 Supplies menu (continued)

First level	Second level	Third level	Fourth level	Values
	Supply Messages	Low Message		On* Off
		Level Gauge		On* Off
Black Cartridge OK: - Status				
Cyan Cartridge OK: - Status				
Magenta Cartridge OK: - Status				
Yellow Cartridge OK: - Status				
Toner Collection Unit OK: - Status				
Transfer Kit OK: - Status				
Fuser OK: - Status				

Trays menu

In the following table, asterisks (*) indicate the factory default setting.

Table 2-5 Trays menu

First level	Second level	Values
Manage Trays	Use Requested Tray	Exclusively* First
	Manually Feed Prompt	Always* Unless loaded
	Size/Type Prompt	Display* Do not display
	Use Another Tray	Enabled* Disabled
	Alternative Letterhead Mode	Disabled* Enabled
	Blank Pages	Auto* Yes
	Override A4/Letter	Yes* No
	Tray 1 Size	Select from a provided list.
Tray 1 Type	Select from a provided list.	
Tray 2 Size	Select from a provided list.	
Tray 2 Type	Select from a provided list.	
Tray 3 Size	Select from a provided list.	
Tray 3 Type	Select from a provided list.	
Tray 4 Size	Select from a provided list.	
Tray 4 Type	Select from a provided list.	
Tray 5 Size	Select from a provided list.	
Tray 5 Type	Select from a provided list.	
Tray 6 Size	Select from a provided list.	
Tray 6 Type	Select from a provided list.	

Administration menu

Reports menu

Table 2-6 Reports menu

First level	Second level	Third level	Values		
Configuration/Status Pages	Print	Administration Menu Map			
		Configuration Page			
		Supplies Status Page			
		Usage Page			
		Paper Path Page			
		File Directory Page			
		Current Settings Page			
		Color Usage Job Log			
		Other Pages	Print	Demonstration Page	
				RGB Samples	
CMYK Samples					
PCL Font List					
PS Font List					

General Settings menu

In the following table, asterisks (*) indicate the factory default setting.

Table 2-7 General Settings menu

First level	Second level	Third level	Fourth level	Values	
Date/Time Settings	Date/Time Format	Date Format		DD/MMM/YYYY	
				MMM/DD/YYYY*	
				YYYY/MMM/DD	
		Date/Time	Time Format		12 hour (AM/PM)*
					24 hours
		Date			
		Time			
		Time Zone			

Table 2-7 General Settings menu (continued)

First level	Second level	Third level	Fourth level	Values
		Adjust for Daylight Savings		On Off*
Energy Settings	Sleep Delay			60* Select sleep delay period from a list.
	Optimum Speed/ Energy Usage			Faster First Page* Save Energy Save More Energy Save Most Energy
Print Quality	Adjust Color	Highlights	Cyan Density Magenta Density Yellow Density Black Density	-5 to 5 Default = 0
		Midtones	Cyan Density Magenta Density Yellow Density Black Density	-5 to 5 Default = 0
		Shadows	Cyan Density Magenta Density Yellow Density Black Density	-5 to 5 Default = 0
		Restore Color Values		
	Image Registration	Adjust Tray <X>	Print Test Page	
			X1 Shift Y1 Shift X2 Shift Y2 Shift	-5.00 mm to 5.00 mm Default = 0
	Auto Sense Mode	Tray 1 Sensing		Full sensing Expanded sensing* Transparency Only

Table 2-7 General Settings menu (continued)

First level	Second level	Third level	Fourth level	Values
		Tray X Sensing		Expanded sensing* Transparency Only
	Adjust Paper Types	Select from a list of paper types that the product supports. The available options are the same for each paper type.	Print Mode	Select from a list of print modes. Default = Auto Sense Mode
			Resistance Mode	Normal* Up Down
			Humidity Mode	Normal* High
			Fuser Temp Mode	Normal* Up Down
			Paper Curl Mode	Normal* Reduced
	Optimize	Normal Paper		Standard* Smooth
		Light Media		Normal* Smooth
		Heavy Paper		Standard* Smooth
		Envelope Control		Normal* Alternate 1 Alternate 2
		Environment		Normal* Low Temp
		Line Voltage		Normal* Low Voltage
		Tray 1		Normal* Alternate

Table 2-7 General Settings menu (continued)

First level	Second level	Third level	Fourth level	Values
		Cleaning Control		Normal* Alternate
		Background		Normal* Alternate 1 Alternate 2 Alternate 3
		Media Temp		Normal* Alternate
		Uniformity Control		Normal* Alternate 1 Alternate 2 Alternate 3
		Pre-Rotation		Normal* Alternate 1 Alternate 2 Alternate 3
		Registration		Normal* Alternate
		Transfer Control		Normal* Alternate 1 Alternate 2 Alternate 3
		Moisture Control		Normal* Alternate
		Restore Optimize		
	Edge Control			Off Light Normal* Maximum

Table 2-7 General Settings menu (continued)

First level	Second level	Third level	Fourth level	Values
Jam Recovery				Auto*
				Off
				On
Manage Stored Jobs	Quick Copy Job Storage Limit			1-300
				Default = 32
	Quick Copy Job Held Timeout			Off*
				1 Hour
				4 Hours
				1 Day
				1 Week
	Default Folder Name for Stored Jobs			Select from a list of folder names.
				Public*
	Sort Stored Jobs By			Job Name*
				Date
Restore Factory Settings	Reset			All
				Calibration
				General
				Print
				Security
Restrict Color				Enable
				Disable
				Color if Allowed*

Retrieve From USB Settings menu

Table 2-8 Retrieve From USB Settings menu

First level	Second level	Values
Retrieve From USB Settings	Access Code	Enable*
		Disable

Print Settings menu

In the following table, asterisks (*) indicate the factory default setting.

Table 2-9 Print Settings menu

First level	Second level	Values
Manual Feed		Enabled
		Disabled*
Courier Font		Regular*
		Dark
Wide A4		Enabled
		Disabled*
Print PS Errors		Enabled
		Disabled*
Print PDF Errors		Enabled
		Disabled*
Personality		Auto*
		PCL
		POSTSCRIPT
		PDF
PCL	Form Length	Range: 5 – 128
		Default = 60
	Orientation	Portrait*
		Landscape
	Font Source	Internal*
		Soft
		USB <X>

Table 2-9 Print Settings menu (continued)

First level	Second level	Values
	Font Number	Range: 0 – 999 Default = 0
	Font Pitch	Range: 0.44 – 99.99 Default = 10
	Font Point Size	Range: 4.00 – 999.75 Default = 12.00
	Symbol Set	Select from a list of symbol sets.
	Append CR to LF	No* Yes
	Suppress Blank Pages	No* Yes
	Media Source Mapping	Standard* Classic

Print Options menu

In the following table, asterisks (*) indicate the factory default setting.

Table 2-10 Print Options menu

First level	Second level	Values
Number of Copies		Default = 1
Default Paper Size		Select from a list of sizes that the product supports.
Default Custom Paper Size	Inches	X Dimension Range: 2.99 – 12.28 Default = 12.28
		Y Dimension Range: 5.00 – 18.50 Default = 18.5
	MM	X Dimension Range: 76 – 312 Default = 312
		Y Dimension Range: 127 – 470 Default = 470
Sides		1-sided* 2-sided

Table 2-10 Print Options menu (continued)

First level	Second level	Values
Two-Sided Format		Book-style*
		Flip-style
Enable Edge to Edge Overrides		Enabled
		Disabled*

Display Settings menu

In the following table, asterisks (*) indicate the factory default setting.

Table 2-11 Display Settings menu

First level	Second level	Values
Display Brightness		Range: -10 to 10 Default = 0
Language		Select from a list of languages that the product supports.
Show IP Address		Display* Hide
Sleep Mode		Disabled Use sleep delay* Use sleep schedule Balance power savings/Wait time
Inactivity Timeout		Range: 10 – 300 seconds Default = 60
Clearable Warnings		On Job*
Continuable Events		Auto continue (10 seconds)* Press OK to continue

Manage Supplies menu

In the following table, asterisks (*) indicate the factory default setting.

Table 2-12 Manage Supplies menu

First level	Second level	Third level	Fourth level	Values
Print Supplies Status				
Supply Settings	Black Cartridge	Very Low Settings		Stop
				Prompt to continue*
				Continue
		Low Threshold Settings		1-100%
	Color Cartridges	Very Low Settings		Stop
				Prompt to continue*
				Continue
		Low Threshold Settings	Cyan Cartridge	1-100%
			Magenta Cartridge	
			Yellow Cartridge	
	Fuser	Very Low Settings		Stop
				Prompt to continue*
				Continue
		Low Threshold Settings		1-100%
	Transfer Kit	Very Low Settings		Stop
				Prompt to continue*
				Continue
		Low Threshold Settings		1-100%
	Color/Black Mix			Auto*
				Mostly Color Pages
				Mostly Black Pages
Supply Messages	Low Message			On*
				Off
	Level Gauge			On*
				Off

Table 2-12 Manage Supplies menu (continued)

First level	Second level	Third level	Fourth level	Values
Reset Supplies	New Fuser Kit			No
				Yes
	New Transfer Kit			No
				Yes

Manage Trays menu

In the following table, asterisks (*) indicate the factory default setting.

Table 2-13 Manage Trays menu

First level	Values
Use Requested Tray	Exclusively*
	First
Manually Feed Prompt	Always*
	Unless loaded
Size/Type Prompt	Display*
	Do not display
Use Another Tray	Enabled*
	Disabled
Alternative Letterhead Mode	Disabled*
	Enabled
Blank Pages	Auto*
	Yes
Override A4/Letter	Yes*
	No

Network Settings menu

In the following table, asterisks (*) indicate the factory default setting.

Table 2-14 Network Settings menu

First level	Values
I/O Timeout	Range: 5 – 300 sec Default = 15
Embedded Jetdirect	See the table that follows for details. These menus have the same structure. If an additional HP Jetdirect network card is installed in the EIO slot, then both menus are available.

Table 2-15 Embedded Jetdirect

First level	Second level	Third level	Fourth level	Fifth level	Values
Information	Print Sec Report				Yes
					No*
TCP/IP	Enable				On*
					Off
	Host Name				Use the arrow buttons to edit the host name. NPXXXXXX*
	IPv4 Settings	Config Method			Bootp*
					DHCP
					Auto IP
					Manual
			Default IP		Auto IP*
					Legacy
			DHCP Release		Yes
					No*
			DHCP Renew		Yes
					No*
			Primary DNS		Range: 0 – 255 Default = xxx.xxx.xx.xx
			Secondary DNS		Range: 0 – 255 Default = 0.0.0.0

Table 2-15 Embedded Jetdirect (continued)

First level	Second level	Third level	Fourth level	Fifth level	Values
	IPv6 Settings	Enable			On* Off
		Address	Manual Settings	Enable	On Off*
				Address	Select from a provided list.
		DHCPV6 Policy			Router Specified Router Unavailable* Always
		Primary DNS			Select from a provided list.
		Secondary DNS			Select from a provided list.
		Proxy Server			Select from a provided list.
		Proxy Port			Default = 0080
		Idle Timeout			Default = 0270
Security	Secure Web				HTTPS Required* HTTPS Optional
		IPSEC			Keep Disable*
	802.1x			Reset Keep*	
	Reset Security			Yes No*	
Diagnostics	Embedded Test	LAN HW Test			Yes No*
		HTTP Test			Yes No*
	SNMP Test			Yes No*	

Table 2-15 Embedded Jetdirect (continued)

First level	Second level	Third level	Fourth level	Fifth level	Values
		Data Path Test			Yes No*
		Select All Tests			Yes No*
		Execution Time			Range: 1 – 60 hours Default = 1
		Execute			Yes No*
	Ping Test	Dest Type			IPv4 IPv6
		Dest IPv4			Range: 0 – 255 Default = 127.0.0.1
		Dest IPv6			Select from a provided list. Default = ::1
		Packet Size			Default = 64
		Timeout			Default = 001
		Count			Default = 004
		Print Results			Yes No*
		Execute			Yes No*
	Ping Results	Packets Sent			Default = 00000
		Packets Received			Default = 00000
		Percent Lost			Default = 000
		RTT Min			Default = 0000
		RTT Max			Default = 0000
		RTT Average			Default = 0000
		Ping In Progress			Yes No*

Table 2-15 Embedded Jetdirect (continued)

First level	Second level	Third level	Fourth level	Fifth level	Values
		Refresh			Yes No*
Link Speed					Auto* 10T Half 10T Full 100TX Half 100TX Full 100TX Auto 1000T Full

Troubleshooting menu

In the following table, asterisks (*) indicate the factory default setting.

Table 2-16 Troubleshooting menu

First level	Second level	Third level	Fourth level	Values
Exit Troubleshooting				
NOTE: This item only displays if you are backing out of the Troubleshooting menu.				
Print Event Log				
View Event Log				
Print Quality Pages	Print PQ Troubleshooting Pages			
	Diagnostic Page			
	Color Band Test	Print Test Page		
		Copies		Range: 1 – 30 Default = 1
Diagnostic Tests	Disable Cartridge Check			
		Paper Path Sensors		Start Test
		Paper Path Test	Print Test Page	Print
			Source	Select from a list of the available trays.
			Test Duplex Path	Off* On
			Number of Copies	Range: 1 – 500 Default = 1
		Manual Sensor Test		Select from a list of the product sensors.
		Tray/Bin Manual Sensor Test		Select from a list of the product sensors.
		Component Test		Select from a list of available components.
			Repeat	Off* On
	Print/Stop Test			

Table 2-16 Troubleshooting menu (continued)

First level	Second level	Third level	Fourth level	Values
Retrieve Diagnostic Data	Export to USB	Diagnostic Files		Device Data File
				Debug Information File*
				Off
				On*
				Off
	On*			
General Debug Data				

Device Maintenance menu

Backup/Restore menu

△ **CAUTION:** Data backup and restoration is the responsibility of the customer/administrator of the product. Service personnel should not back up or restore customer data under any circumstances.

In the following table, asterisks (*) indicate the factory default setting.

Table 2-17 Backup/Restore menu

First level	Second level	Third level	Values
Backup Data	Scheduled Backups	Enable Scheduling	Disabled*
			Enabled
		Backup Time	Default = current time
		Days Between Backups	Default = 1
		Backup Now	
	Export Last Backup		
Restore Data			Insert a USB drive that contains the backup file.

Calibration/Cleaning menu

In the following table, asterisks (*) indicate the factory default setting.

Table 2-18 Calibration/Cleaning menu

First level	Second level	Values
Auto Cleaning		Off*
		On
Cleaning Interval		Select from a list of cleaning intervals.
Auto Cleaning Size		Letter*
		A4
Print Cleaning Page		
Clean Laser Glass		
Quick Calibration		
Full Calibration		
Delay Calibration at Wake/Power On		Yes*
		No

USB Firmware Upgrade menu

To display: At the product control panel, select the **Device Maintenance** menu, and then select the **USB Firmware Upgrade** menu.

Insert a USB storage device with a firmware upgrade bundle into the USB port, and follow the on-screen instructions.

Service menu

The **Service** menu is locked and requires a PIN for access. This menu is intended for use by authorized service personnel.

3 Software for Windows

- [Supported operating systems for Windows®](#)
- [Supported printer drivers for Windows](#)
- [Select the correct printer driver for Windows](#)
- [Priority for print settings](#)
- [Change printer-driver settings for Windows](#)
- [Remove software for Windows](#)
- [Supported utilities for Windows](#)
- [Software for other operating systems](#)

Supported operating systems for Windows®

The product supports the following Windows operating systems:

- Windows® XP (32-bit and 64-bit)
- Windows Vista® (32-bit and 64-bit)
- Windows 7 (32-bit and 64-bit)
- Windows Server 2003 (32-bit and 64-bit)
- Windows Server 2008 (32-bit and 64-bit)

Supported printer drivers for Windows

- HP PCL 6 (this is the default printer driver)
- HP PCL 6 Universal Print Driver (HP UPD PCL 6)
- HP postscript emulation Universal Print Driver (HP UPD PS)
- HP PCL 5 Universal Print Driver (HP UPD PCL 5)

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.

Select the correct printer driver for Windows

Printer drivers provide access to the product features and allow the computer to communicate with the product (using a printer language). The following printer drivers are available at www.hp.com/support/cljcp5525.

HP PCL 6 driver	<ul style="list-style-type: none">• Provided as the default driver. This driver is automatically installed unless you select a different one.• Recommended for all Windows environments• Provides the overall best speed, print quality, and product-feature support for most users• Developed to align with the Windows Graphic Device Interface (GDI) for the best speed in Windows environments• Might not be fully compatible with third-party and custom software programs that are based on PCL 5
HP UPD PCL 6 driver	<ul style="list-style-type: none">• Recommended for all Windows environments• Provides the overall best speed, print quality, and product-feature support for most users• Developed to align with the Windows GDI for the best speed in Windows environments• Might not be fully compatible with third-party and custom software programs that are based on PCL 5
HP UPD PS driver	<ul style="list-style-type: none">• Recommended for printing with Adobe® software programs or with other highly graphics-intensive software programs• Provides support for printing from postscript emulation needs, or for postscript flash font support
HP UPD PCL 5	<ul style="list-style-type: none">• Recommended for general office printing in Windows environments• Compatible with previous PCL versions and older HP LaserJet products• The best choice for printing from third-party or custom software programs• The best choice when operating with mixed environments, which require the product to be set to PCL 5 (UNIX®, Linux, mainframe)• Designed for use in corporate Windows environments to provide a single driver for use with multiple printer models• Preferred when printing to multiple printer models from a mobile Windows computer

HP Universal Print Driver (UPD)

The HP Universal Print Driver (UPD) for Windows is a single driver that gives you instant access to virtually any HP LaserJet product, from any location, without downloading separate drivers. It is built on proven HP print driver technology and has been tested thoroughly and used with many software programs. It is a powerful solution that performs consistently over time.

The HP UPD communicates directly with each HP product, gathers configuration information, and then customizes the user interface to show the product's unique, available features. It automatically enables features that are available for the product, such as two-sided printing and stapling, so you do not need to enable them manually.

For more information, go to www.hp.com/go/upd.

UPD installation modes

Traditional mode	<ul style="list-style-type: none">• Use this mode if you are installing the driver from a CD for a single computer.• When installed from the CD that comes with the product, UPD operates like traditional printer drivers. It operates with a specific product.• If you use this mode, you must install UPD separately for each computer and for each product.
Dynamic mode	<ul style="list-style-type: none">• To use this mode, download UPD from the Internet. See www.hp.com/go/upd.• Dynamic mode allows you to use a single driver installation, so you can discover and print to HP products in any location.• Use this mode if you are installing UPD for a workgroup.

Priority for print settings

Changes to print settings are prioritized depending on where the changes are made:

 **NOTE:** The names of commands and dialog boxes might vary depending on your software program.

- **Page Setup dialog box:** Click **Page Setup** or a similar command on the **File** menu of the program you are working in to open this dialog box. Settings changed here override settings changed anywhere else.
- **Print dialog box:** Click **Print**, **Print Setup**, or a similar command on the **File** menu of the program you are working in to open this dialog box. Settings changed in the **Print** dialog box have a lower priority and usually do not override changes made in the **Page Setup** dialog box.
- **Printer Properties dialog box (printer driver):** Click **Properties** in the **Print** dialog box to open the printer driver. Settings changed in the **Printer Properties** dialog box usually do not override settings anywhere else in the printing software. You can change most of the print settings here.
- **Default printer driver settings:** The default printer driver settings determine the settings used in all print jobs, *unless* settings are changed in the **Page Setup**, **Print**, or **Printer Properties** dialog boxes.
- **Printer control panel settings:** Settings changed at the printer control panel have a lower priority than changes made anywhere else.

Change printer-driver settings for Windows

Change the settings for all print jobs until the software program is closed

1. On the **File** menu in the software program, click **Print**.
2. Select the driver, and then click **Properties** or **Preferences**.

The steps can vary; this procedure is most common.

Change the default settings for all print jobs

1. **Windows XP, Windows Server 2003, and Windows Server 2008 (using the default Start menu view):** Click **Start**, and then click **Printers and Faxes**.

Windows XP, Windows Server 2003, and Windows Server 2008 (using the Classic Start menu view): Click **Start**, click **Settings**, and then click **Printers**.

Windows Vista: Click **Start**, click **Control Panel**, and then in the category for **Hardware and Sound** click **Printer**.

Windows 7: Click **Start**, and then click **Devices and Printers**.

2. Right-click the driver icon, and then select **Printing Preferences**.

Change the product configuration settings

1. **Windows XP, Windows Server 2003, and Windows Server 2008 (using the default Start menu view):** Click **Start**, and then click **Printers and Faxes**.

Windows XP, Windows Server 2003, and Windows Server 2008 (using the Classic Start menu view): Click **Start**, click **Settings**, and then click **Printers**.

Windows Vista: Click **Start**, click **Control Panel**, and then in the category for **Hardware and Sound** click **Printer**.

Windows 7: Click **Start**, and then click **Devices and Printers**.

2. Right-click the driver icon, and then select **Properties** or **Printer properties**.
3. Click the **Device Settings** tab.

Remove software for Windows

Windows XP

1. Click **Start, Control Panel**, and then **Add or Remove Programs**.
2. Find and select the product from the list.
3. Click the **Change/Remove** button to remove the software.

Windows Vista

1. Click **Start, Control Panel**, and then **Programs and Features**.
2. Find and select the product from the list.
3. Select the **Uninstall/Change** option.

Windows 7

1. Click **Start, Control Panel**, and then under the **Programs** heading, click **Uninstall a program**.
2. Find and select the product from the list.
3. Select the **Uninstall** option.

Supported utilities for Windows

HP Web Jetadmin

HP Web Jetadmin is a simple print and imaging peripheral management software tool that helps optimize product use, control color costs, secure products, and streamline supplies management by enabling remote configuration, proactive monitoring, security troubleshooting, and reporting of printing and imaging products.

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) by navigating to the HP Web Jetadmin host.

HP Embedded Web Server

The product is equipped with the HP Embedded Web Server, which provides access to information about product and network activities. This information appears in a Web browser, such as Microsoft Internet Explorer, Netscape Navigator, Apple Safari, or Mozilla Firefox.

The HP Embedded Web Server resides on the product. It is not loaded on a network server.

The HP Embedded Web Server provides an interface to the product 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 HP Embedded Web Server, type the IP address for the product 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 information pages on page 162](#)).

For a complete explanation of the features and functionality of the HP Embedded Web Server, see [Use the HP Embedded Web Server on page 163](#).

Software for other operating systems

OS	Software
UNIX	<p>For HP-UX and Solaris networks, go to www.hp.com/go/jetdirectunix_software to install model scripts using the HP Jetdirect printer installer (HPPI) for UNIX.</p> <p>For the latest model scripts, go to www.hp.com/go/unixmodelscripts.</p>
Linux	<p>For information, go to www.hplip.net.</p>
SAP	<p>For drivers, go to www.hp.com/go/sap/drivers</p> <p>For information, go to www.hp.com/go/sap/print</p>

4 Use the product with Mac

- [Software for Mac](#)
- [Print with Mac](#)
- [Solve problems with a Mac](#)

Software for Mac

Supported operating systems for Mac

The product supports the following Mac operating systems:

- Mac OS X 10.4, 10.5, 10.6, and later

 **NOTE:** For Mac OS X 10.4 and later, PPC and Intel® Core™ Processor Macs are supported.

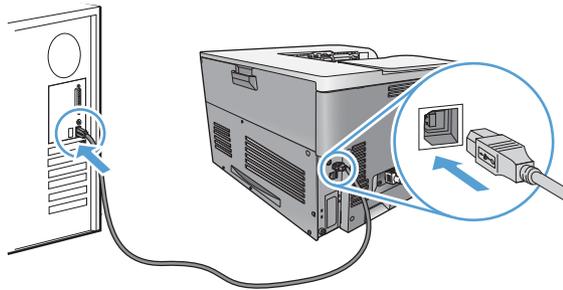
Supported printer drivers for Mac

The HP LaserJet software installer provides PostScript® Printer Description (PPD) files, Printer Dialog Extensions (PDEs), and the HP Utility for use with Mac OS X computers. The HP printer PPD and PDE files, in combination with the built-in Apple PostScript printer drivers, provide full printing functionality and access to specific HP printer features.

Install software for Mac operating systems

Install software for Mac computers connected directly to the product

1. Install the software from the CD.
2. Click the product icon, and follow the onscreen instructions.
3. Click the **Close** button.
4. When the software prompts you, connect the USB cable to the product and the computer.



5. To configure the product software to recognize the installed accessories, complete these steps:

Mac OS X 10.4

1. From the Apple menu , click the **System Preferences** menu and then click the **Print & Fax** icon.
2. Click the **Printer Setup** button.
3. Click the **Installable Options** menu.

Mac OS X 10.5 and 10.6

1. From the Apple menu , click the **System Preferences** menu and then click the **Print & Fax** icon.
2. Select the product in the left side of the window.
3. Click the **Options & Supplies** button.
4. Click the **Driver** tab.
5. Configure the installed options.

NOTE: For Mac OS X 10.5 and 10.6, the installation procedure should automatically configure the installed options.

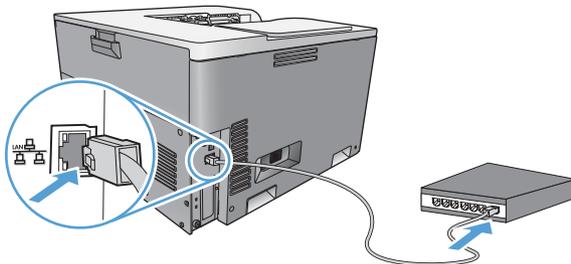
-
6. Print a page from any program to make sure that the software is correctly installed.

 **NOTE:** If the installation failed, reinstall the software.

Install software for Mac computers on a wired network

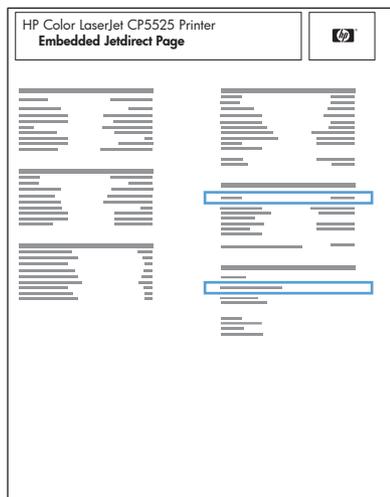
Configure the IP address

1. Connect the network cable to the product and to the network.



2. Wait for 60 seconds before continuing. During this time, the network recognizes the product and assigns an IP address or host name for the product.
3. At the product control panel, press the Home button .
4. Press the down arrow ▼ to highlight the **Administration** menu, and then press the **OK** button.
5. Press the down arrow ▼ to highlight the **Reports** menu, and then press the **OK** button.
6. Press the down arrow ▼ to highlight the **Configuration/Status Pages** menu, and then press the **OK** button.
7. Press the down arrow ▼ to highlight the **Configuration Page** menu, and then press the **OK** button.

8. Find the IP address on the Embedded Jetdirect page.



9. **IPv4:** If the IP address is 0.0.0.0, or 192.0.0.192, or 169.254.x.x, you must manually configure the IP address. See [Manually configure IPv4 TCP/IP parameters from the control panel on page 67](#). Otherwise, the network configuration was successful.

IPv6: If the IP address begins with "fe80:", the product should be able to print. If not, you must manually configure the IP address. See [Manually configure IPv6 TCP/IP parameters from the control panel on page 68](#).

Install the Mac software

Mac

1. Quit all programs on the computer.
2. Install the software from the CD.
3. Click the product icon, and follow the onscreen instructions.
4. Click the **Close** button when the installation is complete.
5. At the computer, open the Apple menu , click the **System Preferences** menu, and then click the **Print & Fax** icon.
6. Click the plus symbol (+).

By default, Mac OS X uses the Bonjour method to find the driver and add the product to the printer pop-up menu. This method is best in most situations. If Mac OS X cannot find the HP printer driver, an error message displays. Reinstall the software.

If you are connecting the product to a large network, you might need to use IP printing to connect rather than Bonjour. Follow these steps:

- a. Click the **IP Printer** button.
- b. From the **Protocol** drop-down list, select the **HP Jetdirect-Socket** option. Enter the IP address or host name for the product. From the **Print Using** drop-down list, select the product model if one is not already selected.

7. To configure the product to recognize the installed accessories, complete these steps:

Mac OS X 10.4

1. From the Apple menu , click the **System Preferences** menu and then click the **Print & Fax** icon.
2. Click the **Printer Setup** button.
3. Click the **Installable Options** menu.

Mac OS X 10.5 and 10.6

1. From the Apple menu , click the **System Preferences** menu and then click the **Print & Fax** icon.
2. Select the product in the left side of the window.
3. Click the **Options & Supplies** button.
4. Click the **Driver** tab.
5. Configure the installed options.

NOTE: For Mac OS X 10.5 and 10.6, the installation procedure should automatically configure the installed options.

8. Print a page from any program to make sure that the software is correctly installed.

 **NOTE:** If the installation failed, reinstall the software.

Remove software from Mac operating systems

You must have administrator rights to remove the software.

1. Open **System Preferences**.
2. Select **Print & Fax**.
3. Highlight the product.
4. Click the minus (-) symbol.
5. Delete the print queue, if necessary.
6. Delete the .GZ file from the following hard-drive folder:
 - **Mac OS X 10.4:** Library/Printers/PPDs/Contents/Resources/<lang>.lproj, where <lang> is the two-letter language code for the language that you are using.
 - **Mac OS X 10.5 and 10.6:** Library/Printers/PPDs/Contents/Resources

Priority for print settings for Mac

Changes to print settings are prioritized depending on where the changes are made:

 **NOTE:** The names of commands and dialog boxes might vary depending on your software program.

- **Page Setup dialog box:** Click **Page Setup** or a similar command on the **File** menu of the program you are working in to open this dialog box. Settings changed here might override settings changed anywhere else.
- **Print dialog box:** Click **Print**, **Print Setup**, or a similar command on the **File** menu of the program you are working in to open this dialog box. Settings changed in the **Print** dialog box have a lower priority and do *not* override changes made in the **Page Setup** dialog box.
- **Default printer driver settings:** The default printer driver settings determine the settings used in all print jobs, *unless* settings are changed in the **Page Setup**, **Print**, or **Printer Properties** dialog boxes.
- **Printer control panel settings:** Settings changed at the printer control panel have a lower priority than changes made anywhere else.

Change printer-driver settings for Mac

Change the settings for all print jobs until the software program is closed	Change the default settings for all print jobs	Change the product configuration settings
<ol style="list-style-type: none">1. On the File menu, click the Print button.2. Change the settings that you want on the various menus.	<ol style="list-style-type: none">1. On the File menu, click the Print button.2. Change the settings that you want on the various menus.3. On the Presets menu, click the Save As... option and type a name for the preset. <p>These settings are saved in the Presets menu. To use the new settings, you must select the saved preset option every time you open a program and print.</p>	<p>Mac OS X 10.4</p> <ol style="list-style-type: none">1. From the Apple menu , click the System Preferences menu and then click the Print & Fax icon.2. Click the Printer Setup button.3. Click the Installable Options menu. <p>Mac OS X 10.5 and 10.6</p> <ol style="list-style-type: none">1. From the Apple menu , click the System Preferences menu and then click the Print & Fax icon.2. Select the product in the left side of the window.3. Click the Options & Supplies button.4. Click the Driver tab.5. Configure the installed options.

Software for Mac computers

HP Utility for Mac

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

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

Open the HP Utility

Mac OS X 10.4	<ol style="list-style-type: none">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.
Mac OS X 10.5 and 10.6	<ol style="list-style-type: none">1. From the Printer Browser menu, click Printer Utility. <p>-or-</p> <p>From the Print Queue, click the Utility icon.</p>

HP Utility features

The HP 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.

Menu	Item	Description
Information And Support	Supplies Status	Shows the product supplies status and provides links for online supplies-ordering
	Device Information	Shows information about the currently selected product
	HP Support	Provides access to technical assistance, online supplies ordering, online registration, and recycling and return information
	Color Usage	Shows the total pages printed, the number of pages printed in color, and the number of pages printed in black only
	File Upload	Transfers files from the computer to the product
Printer Settings	Upload Fonts	Transfers font files from the computer to the product
	Trays Configuration	Changes the default tray settings
	Duplex Mode	Turns on the automatic two-sided printing mode
	Stored Jobs	Manages print jobs that are stored on the product hard disk
	E-mail Alerts	Configures the product to send e-mail notices for certain events
Supplies Management	Network Settings	Configures the network settings, such as the IPv4 and IPv6 settings
	Supplies Management	Configures how the product should behave when supplies are nearing the end of their estimated life

Menu	Item	Description
	Restrict Color	Configures color-printing restrictions for specific users and software programs NOTE: This option is available only after you open the View menu, and then select the Show Advanced option.
	Protect Direct Ports	Disables printing over USB or parallel ports
	Additional Settings	Provides access to the HP Embedded Web Server

Supported utilities for Mac

HP Embedded Web Server

The product is equipped with an embedded Web server, which provides access to information about product and network activities. For more information, see [Features on page 164](#).

Print with Mac

Cancel a print job with a Mac

If the print job is currently printing, cancel it by pressing the Cancel button on the product control panel.

 **NOTE:** Pressing the Cancel button clears the job that the product is currently processing. If more than one process is running (for example, the product is printing a document while receiving a fax), pressing the Cancel button clears the process that currently appears on the product control panel.

You can also cancel a print job from a software program or a print queue.

To stop the print job immediately, remove the remaining print media from the product. After printing stops, use one of the following options:

- **Product control panel:** To cancel the print job, press and release the Cancel button on the product control panel.
- **Software program:** Typically, a dialog box appears briefly on the computer screen, allowing you to cancel the print job.
- **Mac print queue:** Open the print queue by double-clicking the product icon in the dock. Highlight the print job, and then click **Delete**.

Change the paper size and type with Mac

1. On the **File** menu in the software program, click the **Print** option.
2. In the **Copies & Pages** menu, click the **Page Setup** button.
3. Select a size from the **Paper Size** drop-down list, and then click the **OK** button.
4. Open the **Finishing** menu.
5. Select a type from the **Media-type** drop-down list.
6. Click the **Print** button.

Resize documents or print on a custom paper size with Mac

-
- | | |
|--------------------------------------|---|
| Mac OS X 10.4, 10.5, and 10.6 | <ol style="list-style-type: none">1. On the File menu, click the Page Setup option.2. Select the product, and then select the correct settings for the Paper Size and Orientation options. |
|--------------------------------------|---|
-

Mac OS X 10.5 and 10.6

Use one of these methods.

1. On the **File** menu, click the **Print** option.
 2. Click the **Page Setup** button.
 3. Select the product, and then select the correct settings for the **Paper Size** and **Orientation** options.
-
1. On the **File** menu, click the **Print** option.
 2. Open the **Paper Handling** menu.
 3. In the **Destination Paper Size** area, click the **Scale to fit paper size** box, and then select the size from the drop-down list.
-

Create and use printing presets with Mac

Use printing presets to save the current printer driver settings for reuse.

Create a printing preset

1. On the **File** menu, click the **Print** option.
2. Select the driver.
3. Select the print settings that you want to save for reuse.
4. In the **Presets** menu, click the **Save As...** option, and type a name for the preset.
5. Click the **OK** button.

Use printing presets

1. On the **File** menu, click the **Print** option.
2. Select the driver.
3. In the **Presets** menu, select the printing preset.

 **NOTE:** To use printer-driver default settings, select the **standard** option.

Print a cover page with Mac

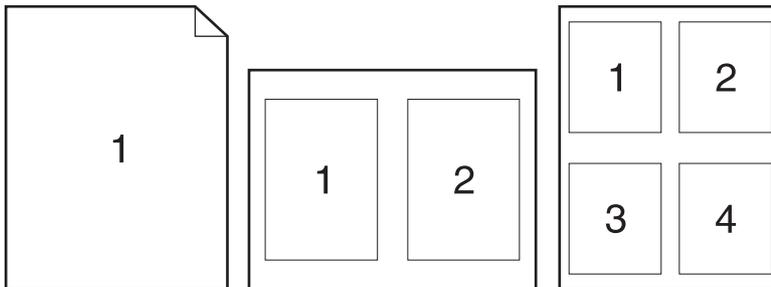
1. On the **File** menu, click the **Print** option.
2. Select the driver.
3. Open the **Cover Page** menu, and then select where to print the cover page. Click either the **Before Document** button or the **After Document** button.
4. In the **Cover Page Type** menu, select the message that you want to print on the cover page.

 **NOTE:** To print a blank cover page, select the **standard** option from the **Cover Page Type** menu.

Use watermarks with Mac

1. On the **File** menu, click the **Print** option.
2. Open the **Watermarks** menu.
3. From the **Mode** menu, select the type of watermark to use. Select the **Watermark** option to print a semi-transparent message. Select the **Overlay** option to print a message that is not transparent.
4. From the **Pages** menu, select whether to print the watermark on all pages or on the first page only.
5. From the **Text** menu, select one of the standard messages, or select the **Custom** option and type a new message in the box.
6. Select options for the remaining settings.

Print multiple pages on one sheet of paper with Mac



1. On the **File** menu, click the **Print** option.
2. Select the driver.
3. Open the **Layout** menu.
4. From the **Pages per Sheet** menu, select the number of pages that you want to print on each sheet (1, 2, 4, 6, 9, or 16).
5. In the **Layout Direction** area, select the order and placement of the pages on the sheet.
6. From the **Borders** menu, select the type of border to print around each page on the sheet.

Print on both sides of the page (duplex printing) with Mac

Use automatic duplex printing

1. Insert enough paper into one of the trays to accommodate the print job.
2. On the **File** menu, click the **Print** option.

3. Open the **Layout** menu.
4. From the **Two-Sided** menu, select a binding option.

Print on both sides manually

1. Insert enough paper into one of the trays to accommodate the print job.
2. On the **File** menu, click the **Print** option.
3. Open the **Finishing** menu, and click the **Manual Duplex** tab or open the **Manual Duplex** menu.
4. Click the **Manual Duplex** box, and select a binding option.
5. Click the **Print** button. Follow the instructions in the pop-up window that appears on the computer screen before replacing the output stack in Tray 1 for printing the second half.
6. Go to the product, and remove any blank paper that is in Tray 1.
7. Insert the printed stack face-up with the bottom edge feeding into the printer first in Tray 1. You *must* print the second side from Tray 1.
8. If prompted, press the appropriate control-panel button to continue.

Store jobs with Mac

You can store jobs on the product so you can print them at any time. You can share stored jobs with other users, or you can make them private.

1. On the **File** menu, click the **Print** option.
2. Open the **Job Storage** menu.
3. In the **Job Storage Mode** drop-down list, select the type of stored job.
 - **Proof and Hold:** This feature provides a quick way to print and proof one copy of a job and then print more copies.
 - **Personal Job:** When you send a job to the product, the job does not print until you request it at the product control panel. If you assign a personal identification number (PIN) to the job, you must provide the required PIN at the control panel.
 - **Quick Copy:** If the optional hard disk is installed on the product, you can print the requested number of copies of a job and then store a copy of the job on the optional hard disk. Storing the job allows you to print additional copies of the job later.
 - **Stored Job:** If the optional hard disk is installed on the product, you can store a job such as a personnel form, time sheet, or calendar on the product and allow other users to print the job at any time. Stored jobs also can be protected by a PIN.
4. To use a custom user name or job name, click the **Custom** button, and then enter the user name or the job name.

Select which option to use if another stored job already has that name.

Use Job Name + (1 - 99)	Append a unique number to the end of the job name.
Replace Existing File	Overwrite the existing stored job with the new one.

5. If you selected the **Stored Job** or **Personal Job** option in step 3, you can protect the job with a PIN. Type a 4-digit number in the **Use PIN to Print** field. When other people attempt to print this job, the product prompts them to enter this PIN number.

Set the color options with Mac

Use the **Color Options** menu or the **Color/Quality Options** menu to control how colors are interpreted and printed from software programs.

1. On the **File** menu, click the **Print** option.
2. Select the driver.
3. Open the **Color Options** menu or the **Color/Quality Options** menu.
4. Open the **Advanced** menu, or select the appropriate tab.
5. Adjust the individual settings for text, graphics, and photographs.

Use the Services menu with Mac

If the product is connected to a network, use the **Services** menu to obtain product and supply-status information.

1. On the **File** menu, click the **Print** option.
2. Open the **Services** menu.
3. To open the embedded Web server and perform a maintenance task, do the following:
 - a. Select the **Device Maintenance** tab.
 - b. Select a task from the drop-down list.
 - c. Click the **Launch** button.
4. To go to various support Web sites for this product, do the following:
 - a. Select the **Services on the Web** tab.
 - b. Select an option from the menu.
 - c. Click the **Go!** button.

Solve problems with a Mac

See [Solve common Mac problems on page 203](#).

5 Connect the product

- [Supported network operating systems](#)
- [Connect with USB](#)
- [Connect to a network](#)

Supported network operating systems

The following operating systems support network printing:

- Windows 7 (32-bit and 64-bit)
- Windows Vista (32-bit and 64-bit)
- Windows Server 2008 (32-bit and 64-bit)
- Windows XP (32-bit, Service Pack 2)
- Windows XP (64-bit, Service Pack 1)
- Windows Server 2003 (Service Pack 1, 32-bit and 64-bit)
- Mac OS X 10.4, 10.5, 10.6, and higher

 **NOTE:** Most network operating systems support a full software installation.

Printer sharing disclaimer

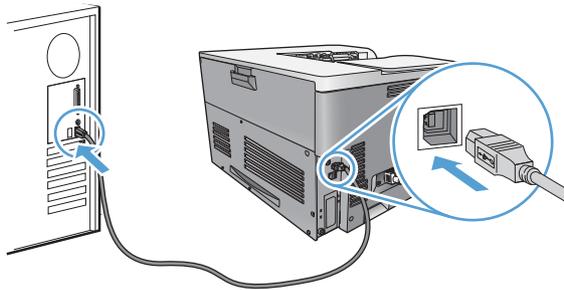
HP does not support peer-to-peer networking, as the feature is a function of Microsoft operating systems and not of the HP printer drivers. Go to Microsoft at www.microsoft.com.

Connect with USB

This product supports a USB 2.0 connection. You must use an A-to-B type USB cable that is no longer than 2 m (6.5 ft).

CAUTION: Do not connect the USB cable until the installation software prompts you to connect it.

1. Quit all open programs on the computer.
2. Install the software from the CD, and follow the onscreen instructions.
3. When prompted, select the **Connected directly to the computer** option, and then click the **Install** button.
4. When the software prompts you, connect the USB cable to the product and the computer.



5. At the end of the installation, click the **Finish** button.
6. On the **Additional Options** screen, you can install more software, or click the **Exit** button.
7. Print a page from any program to make sure that the software is correctly installed.

NOTE: If the installation failed, reinstall the software.

Connect to a network

You can configure network parameters from the control panel, the HP Embedded Web Server, or for most networks, from the HP Web Jetadmin software.

NOTE: HP Web Jetadmin software is not supported on Mac OS X operating systems.

For a complete list of supported networks and for instructions on configuring network parameters from software, see the *HP Jetdirect Embedded Print Server Administrator's Guide*. The guide comes with products in which an HP Jetdirect embedded print server is installed.

Supported network protocols

The product supports the TCP/IP network protocol, the most widely used and accepted networking protocol. Many networking services utilize this protocol. The following tables list the supported networking services and protocols.

Table 5-1 Printing

Service name	Description
port9100 (Direct Mode)	Printing service
Line printer daemon (LPD)	Printing service
Advanced LPD (custom LPD queues)	Protocol and programs associated with line-printer spooling services installed on TCP/IP systems.
FTP	TCP/IP utility for transferring data between systems.
WS Print	Uses the Microsoft Web Services for Devices (WSD) Print services on the HP Jetdirect print server.
WS Discovery	Allows Microsoft WS discovery protocols on the HP Jetdirect print server.

Table 5-2 Network device discovery

Service name	Description
SLP (Service Location Protocol)	Device-discovery protocol, used to help find and configure network devices. Used primarily by Microsoft-based programs.
Bonjour	Device-discovery protocol, used to help find and configure network devices. Used primarily by Apple Macintosh-based programs.

Table 5-3 Messaging and management

Service name	Description
HTTP (Hyper Text Transfer Protocol)	Allows Web browsers to communicate with embedded Web server.
EWS (embedded Web server)	Allows you to manage the product through a Web browser.
SNMP (Simple Network Management Protocol)	Used by network applications for product management. SNMP v1, SNMP v3, and standard MIB-II (Management Information Base) objects are supported.
LLMNR (Link Local Multicast Name Resolution)	Specifies if the product responds to LLMNR requests over IPv4 and IPv6.
TFTP Configuration	Allows you to use TFTP to download a configuration file containing additional configuration parameters, such as SNMP or non-default settings, for an HP Jetdirect print server.

Table 5-4 IP addressing

Service name	Description
DHCP (Dynamic Host Configuration Protocol)	For automatic IP address assignment. The product supports IPv4 and IPv6. The DHCP server provides the product with an IP address. Generally, no user intervention is required for the product to obtain an IP address from a DHCP server.
BOOTP (Bootstrap Protocol)	For automatic IP address assignment. The BOOTP server provides the product with an IP address. Requires the administrator to input a product's MAC hardware address on the BOOTP server for the product to obtain an IP address from that server.
Auto IP	For automatic IP address assignment. If neither a DHCP server nor a BOOTP server is present, the product uses this service to generate a unique IP address.

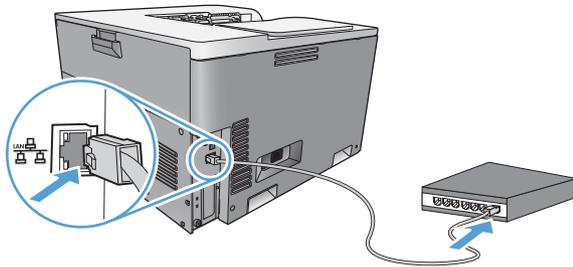
Table 5-5 Security features

Service name	Description
IPsec/Firewall	Provides network-layer security on IPv4 and IPv6 networks. A firewall provides simple control of IP traffic. IPsec provides additional protection through authentication and encryption protocols.
Kerberos	Allows you to exchange private information across an open network by assigning a unique key, called a ticket, to each user who logs on to the network. The ticket is then embedded in messages to identify the sender.
SNMP v3	Employs a user-based security model for SNMP v3, which provides user authentication and data privacy through encryption.
Access control list (ACL)	Specifies the individual host systems, or networks of host systems, that are allowed to access the HP Jetdirect print server and the attached network product.
SSL/TLS	Allows you to transmit private documents via the Internet and guarantee privacy and data integrity between the client and server applications.
IPsec batch configuration	Provides network-layer security through the simple control of IP traffic to and from the product. This protocol provides the benefits of encryption and authentication and allows for multiple configurations.

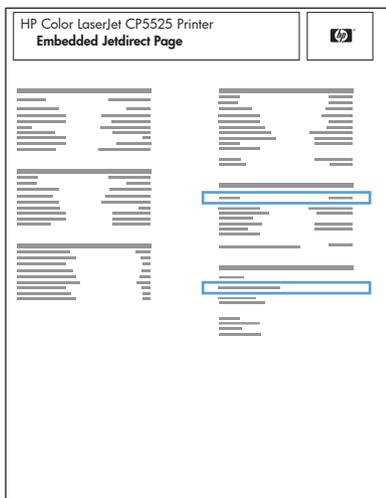
Install the product on a wired network

Configure the IP address

1. Connect the network cable to the product and to the network.



2. Wait for 60 seconds before continuing. During this time, the network recognizes the product and assigns an IP address or host name for the product.
3. At the product control panel, press the Home button .
4. Press the down arrow  to highlight the **Administration** menu, and then press the **OK** button.
5. Press the down arrow  to highlight the **Reports** menu, and then press the **OK** button.
6. Press the down arrow  to highlight the **Configuration/Status Pages** menu, and then press the **OK** button.
7. Press the down arrow  to highlight the **Configuration Page** item, and then press the **OK** button.
8. Press the up arrow  to highlight the **Print** option, and then press the **OK** button to print the report.
9. Find the IP address on the Embedded Jetdirect page.



10. **IPv4:** If the IP address is 0.0.0.0, or 192.0.0.192, or 169.254.x.x, you must manually configure the IP address. See [Manually configure IPv4 TCP/IP parameters from the control panel on page 67](#). Otherwise, the network configuration was successful.

IPv6: If the IP address begins with "fe80:", the product should be able to print. If not, you must manually configure the IP address. See [Manually configure IPv6 TCP/IP parameters from the control panel on page 68](#).

Install the software

1. Quit all programs on the computer.
2. Install the software from the CD.
3. Follow the onscreen instructions.
4. When prompted, select the **Connected via the Network** option, and then click the **Install** button.
5. From the list of available printers, select the printer that has the correct IP address.
6. Click the **Finish** button.
7. On the **Additional Options** screen, you can install more software, or click the **Exit** button.
8. Print a page from any program to make sure that the software is correctly installed.

 **NOTE:** If the installation failed, reinstall the software.

Configure network settings

View or change network settings

Use the embedded Web server to view or change IP configuration settings.

1. Print a configuration page, and locate the IP address.
 - If you are using IPv4, the IP address contains only digits. It has this format:
`xxx.xxx.xxx.xxx`
 - If you are using IPv6, the IP address is a hexadecimal combination of characters and digits. It has a format similar to this:
`xxxx : :xxxx :xxxx :xxxx :xxxx`
2. To open the embedded Web server, type the IP address into the address line of a Web browser.
3. Click the **Networking** tab to obtain network information. You can change settings as needed.

Set or change the network password

Use the embedded Web server to set a network password or change an existing password.

1. Open the embedded Web server, click the **Security** tab, and then click the **General Security** link.

 **NOTE:** If a password has previously been set, you are prompted to type the password. Type the password, and then click the **Apply** button.

2. Type the new password in the **New Password** box and in the **Verify password** box.
3. At the bottom of the window, click the **Apply** button to save the password.

Manually configure IPv4 TCP/IP parameters from the control panel

Use the control-panel menus to manually set an IPv4 address, subnet mask, syslog server, and default gateway.

1. Press the Home button .
2. Press the down arrow ▼ to highlight the **Administration** menu, and then press the OK button.
3. Press the down arrow ▼ to highlight the **Network Settings** menu, and then press the OK button.
4. Press the down arrow ▼ to highlight the **Embedded Jetdirect** menu, and then press the OK button.
5. Press the down arrow ▼ to highlight the **TCP/IP** menu, and then press the OK button.
6. Press the down arrow ▼ to highlight the **IPv4 Settings** menu, and then press the OK button.
7. Press the down arrow ▼ to highlight the **Config Method** menu, and then press the OK button.
8. Press the down arrow ▼ to highlight the **Manual** option, and then press the OK button.
9. Press the down arrow ▼ to highlight the **Manual Settings** menu, and then press the OK button.
10. Press the down arrow ▼ to highlight the **IP Address, Subnet Mask, or Default Gateway** menu, and then press the OK button.
11. Press the up arrow ▲ or the down arrow ▼ to increase or decrease the number for the first byte of the IP address, subnet mask, syslog server, or default gateway.
12. Press the OK button to move to the next set of numbers, or press the back arrow  to move to the previous set of numbers.
13. Repeat steps 10 and 11 until the IP address, subnet mask, or default gateway is complete, and then press the OK button to save the setting.
14. Press the Home button  to return to the **Ready** state.

Manually configure IPv6 TCP/IP parameters from the control panel

Use the control-panel menus to manually set an IPv6 address.

1. Press the Home button .
2. Press the down arrow ▼ to highlight the **Administration** menu, and then press the OK button.
3. Press the down arrow ▼ to highlight the **Network Settings** menu, and then press the OK button.
4. Press the down arrow ▼ to highlight the **Embedded Jetdirect** menu, and then press the OK button.
5. Press the down arrow ▼ to highlight the **TCP/IP** menu, and then press the OK button.
6. Press the down arrow ▼ to highlight the **IPv6 Settings** menu, and then press the OK button.
7. Press the down arrow ▼ to highlight the **Address** menu, and then press the OK button.
8. Press the OK button to select the **Manual Settings** menu.
9. Press the down arrow ▼ to highlight the **Address** option, and then press the OK button.
10. Press the up arrow ▲ or the down arrow ▼ to select the first character of the address. Press the OK button.

Repeat this process for each character in the address.



NOTE: You must press the OK button after entering each character.

11. After entering all of the address characters, press the up arrow ▲ or the down arrow ▼ to select the stop character . Press the OK button.
12. Press the Home button  to return to the **Ready** state.

Link speed and duplex settings

The link speed and communication mode of the print server must match the network. For most situations, leave the product in automatic mode. Incorrect changes to the link speed and duplex settings might prevent the product from communicating with other network devices. If you need to make changes, use the product control panel.

 **NOTE:** Making changes to these settings causes the product to turn off and then on. Make changes only when the product is idle.

1. Press the Home button .
2. Press the down arrow ▼ to highlight the **Administration** menu, and then press the **OK** button.
3. Press the down arrow ▼ to highlight the **Network Settings** menu, and then press the **OK** button.
4. Press the down arrow ▼ to highlight the **Embedded Jetdirect** menu, and then press the **OK** button.
5. Press the down arrow ▼ to highlight the **Link Speed** menu, and then press the **OK** button.
6. Press the down arrow ▼ to highlight one of the following options.

Setting	Description
Auto	The print server automatically configures itself for the highest link speed and communication mode allowed on the network.
10T Half	10 megabytes per second (Mbps), half-duplex operation
10T Full	10 Mbps, full-duplex operation
100TX Half	100 Mbps, half-duplex operation
100TX Full	100 Mbps, full-duplex operation
100TX Auto	Limits auto-negotiation to a maximum link speed of 100 Mbps
1000T Full	1000 Mbps, full-duplex operation

7. Press the **OK** button. The product turns off and then on.

6 Paper and print media

- [Understand paper use](#)
- [Change the printer driver to match the paper type and size](#)
- [Supported paper sizes](#)
- [Supported paper types and tray capacity](#)
- [Load paper trays](#)
- [Configure trays](#)

Understand paper use

This product supports a variety of paper and other print media in accordance with the guidelines in this user guide. Paper or print media that does not meet these guidelines might cause poor print quality, increased jams, and premature wear on the product.

For best results, use only HP-brand paper and print media designed for laser printers or multiuse. Do not use paper or print media made for inkjet printers. Hewlett-Packard Company cannot recommend the use of other brands of media because HP cannot control their quality.

It is possible for paper to meet all of the guidelines in this user guide and still not produce satisfactory results. This might be the result of improper handling, unacceptable temperature and/or humidity levels, or other variables over which Hewlett-Packard has no control.

- △ **CAUTION:** Using paper or print media that does not meet Hewlett-Packard's specifications might cause problems for the product, requiring repair. This repair is not covered by the Hewlett-Packard warranty or service agreements.

Special paper guidelines

This product supports printing on special media. Use the following guidelines to obtain satisfactory results. When using special paper or print media, be sure to set the type and size in the printer driver to obtain the best results.

- △ **CAUTION:** HP LaserJet products use fusers to bond dry toner particles to the paper in very precise dots. HP laser paper is designed to withstand this extreme heat. Using inkjet paper could damage the product.

Media type	Do	Do not
Envelopes	<ul style="list-style-type: none">• Store envelopes flat.• Use envelopes where the seam extends all the way to the corner of the envelope.• Use peel-off adhesive strips that are approved for use in laser printers.	<ul style="list-style-type: none">• Do not use envelopes that are wrinkled, nicked, stuck together, or otherwise damaged.• Do not use envelopes that have clasps, snaps, windows, or coated linings.• Do not use self-stick adhesives or other synthetic materials.
Labels	<ul style="list-style-type: none">• Use only labels that have no exposed backing between them.• Use labels that lie flat.• Use only full sheets of labels.	<ul style="list-style-type: none">• Do not use labels that have wrinkles or bubbles, or are damaged.• Do not print partial sheets of labels.
Transparencies	<ul style="list-style-type: none">• Use only transparencies that are approved for use in color laser printers.• Place transparencies on a flat surface after removing them from the product.	<ul style="list-style-type: none">• Do not use transparent print media not approved for laser printers.

Media type	Do	Do not
Letterhead or preprinted forms	<ul style="list-style-type: none"> • Use only letterhead or forms approved for use in laser printers. 	<ul style="list-style-type: none"> • Do not use raised or metallic letterhead.
Heavy paper	<ul style="list-style-type: none"> • Use only heavy paper that is approved for use in laser printers and meets the weight specifications for this product. 	<ul style="list-style-type: none"> • Do not use paper that is heavier than the recommended media specification for this product unless it is HP paper that has been approved for use in this product.
Glossy or coated paper	<ul style="list-style-type: none"> • Use only glossy or coated paper that is approved for use in laser printers. 	<ul style="list-style-type: none"> • Do not use glossy or coated paper designed for use in inkjet products.

Change the printer driver to match the paper type and size

Change the paper size and type (Windows)

1. On the **File** menu in the software program, click **Print**.
2. Select the product, and then click the **Properties** or **Preferences** button.
3. Click the **Paper/Quality** tab.
4. Select a size from the **Paper size** drop-down list.
5. Select a paper type from the **Paper type** drop-down list.
6. Click the **OK** button.

Change the paper size and type (Mac)

1. On the **File** menu in the software program, click the **Print** option.
2. In the **Copies & Pages** menu, click the **Page Setup** button.
3. Select a size from the **Paper Size** drop-down list, and then click the **OK** button.
4. Open the **Finishing** menu.
5. Select a type from the **Media-type** drop-down list.
6. Click the **Print** button.

Supported paper sizes

This product supports a number of paper sizes, and it adapts to various media.

 **NOTE:** To obtain best print results, select the appropriate paper size and type in your print driver before printing.

Table 6-1 Supported paper and print media sizes

Size	Dimensions	Tray 1	Tray 2	Tray 3, optional trays 4, 5, and 6
Letter ¹	216 x 279 mm (8.5 x 11 in)	✓	✓	✓
Legal	216 x 356 mm (8.5 x 14 in)	✓	✓	✓
A4 ¹	210 x 297 mm (8.27 x 11.69 in)	✓	✓	✓
RA4	215 x 305 mm (8.47 x 12 in)	✓	✓	✓
SRA4	225 x 320 mm (8.86 x 12.6 in)	✓	✓	✓
Executive	184 x 267 mm (7.25 x 10.5 in)	✓	✓	✓
A3	297 x 420 mm (11.69 x 16.54 in)	✓	✓	✓
A5	148 x 210 mm (5.83 x 8.27 in)	✓	✓	✓ ²
A6	105 x 148 mm (4.13 x 5.83 in)	✓		
B4 (JIS)	257 x 364 mm (10.12 x 14.33 in)	✓	✓	✓
B5 (JIS)	182 x 257 mm (7.17 x 10.12 in)	✓	✓	✓
B6 (JIS)	128 x 182 mm (5.04 x 7.17 in)	✓		
8k	270 x 390 mm (10.6 x 15.4 in)	✓	✓	✓
	260 x 368 mm (10.2 x 14.5 in)	✓	✓	✓
	273 x 394 mm (10.75 x 15.5 in)	✓	✓	✓
16k	184 x 260 mm (7.24 x 10.24 in)	✓	✓	✓
	195 x 270 mm (7.68 x 10.63 in)	✓	✓	✓
	197 x 273 mm (7.75 x 10.75 in)	✓	✓	✓
8.5 x 13 (Folio)	216 x 330 mm (8.5 x 13 in)	✓	✓	✓

Table 6-1 Supported paper and print media sizes (continued)

Size	Dimensions	Tray 1	Tray 2	Tray 3, optional trays 4, 5, and 6
Index card	76 x 127 mm (3 x 5 in) ³	✓		
	101.6 x 152 mm (4 x 6 in)	✓		
	127 x 177.8 mm (5 x 7 in)	✓		
	127 x 203 mm (5 x 8 in)	✓		
Statement	139.7 x 216 mm (5.5 x 8.5 in)	✓		
10 x 15 cm	100 x 150 mm (3.9 x 5.9 in)	✓		
11 x 17 (Tabloid)	279 x 432 mm (11 x 17 in)	✓	✓	✓
12 x 18 (Arch B)	305 x 457 mm (12 x 18 in)	✓		
RA3	305 x 430 mm (12 x 16.9 in)	✓		
SRA3	320 x 450 mm (12.6 x 17.7 in)	✓		
Custom	Minimum: 76 x 127 mm (3 x 5 in)	✓		
	Maximum: 312/320 x 470 mm (12.3/12.6 x 18.5 in) ³			
	Minimum: 148 x 182 mm (5.8 x 7.1 in)		✓	
	Maximum: 297 x 432 mm (11.7 x 17 in)			
	Minimum: 210 x 148 mm (8.3 x 5.8 in)			✓
	Maximum: 297 x 432 mm (11.7 x 17 in)			

¹ These sizes can be loaded in a rotated orientation in Tray 2, Tray 3, and optional Trays 4, 5, and 6.

² A5 size is supported for Tray 3 only, as a custom size, with the long edge feeding into the product first. A5 size is not supported for two-sided (duplex) printing from Tray 3.

³ Custom media width is limited to 312 mm (12.3 in). However, SRA3, which is 320 mm (12.6 in) wide, is supported. The maximum printable image is 302 mm (11.9 in) wide. With the required blank 5 mm (0.2 in) margins on each side for printing, any media wider than 312 mm (11.9 in) will have its image centered and limited to 302 mm wide.

Table 6-2 Supported envelopes and postcards

Size	Dimensions	Tray 1	Tray 2
Envelope #9	98.4 x 225.4 mm (3.9 x 8.9 in)	✓	
Envelope #10	105 x 241 mm (4.13 x 9.5 in)	✓	
Envelope DL	110 x 220 mm (4.33 x 8.66 in)	✓	

Table 6-2 Supported envelopes and postcards (continued)

Size	Dimensions	Tray 1	Tray 2
Envelope C5	162 x 229 mm (6.4 x 9 in)	✓	
Envelope C6	114 x 162 mm (4.5 x 6.4 in)	✓	
Envelope B5	176 x 250 mm (6.9 x 9.8 in)	✓	
Envelope Monarch	98 x 191 mm (3.9 x 7.5 in)	✓	
Postcard	100 x 148 mm (3.94 x 5.83 in)	✓	
Double postcard	148 x 200 mm (5.83 x 7.87 in)	✓	✓

Supported paper sizes for duplex printing

- Minimum: 148 x 182 mm (5.8 x 7.2 in)
- Maximum: 312/320 x 457 mm (12.3/12.6 x 18 in)

 **NOTE:** Custom media width is limited to 312 mm (12.3 in). However, SRA3, which is 320 mm (12.6 in) wide, is supported. The maximum printable image is 302 mm (11.9 in) wide. With the required blank 5 mm (0.2 in) margins on each side for printing, any media wider than 312 mm (11.9 in) will have its image centered and limited to 302 mm wide.

 **NOTE:** For automatic duplexing, do not load paper that is heavier than 120 g/m² (32-lb bond). Use manual duplexing to print on heavier paper.

Supported paper types and tray capacity

Media type	Dimensions ¹	Weight	Capacity ²
Paper, including the following types: <ul style="list-style-type: none"> • Plain • Letterhead • Color • Preprinted • Prepunched • Recycled 	Tray 1 minimum: 76 x 127 mm (3 x 5 in) Tray 1 maximum: 320 x 470 mm (12.6 x 18.5 in) Tray 2 minimum: 148 x 182 mm (5.8 x 7.2 in) Trays 3-6 minimum: 210 x 148 mm (8.3 x 5.8 in) Trays 2-6 maximum: 297 x 432 mm (11.7 x 17 in)	60 to 105 g/m ² (16 to 28 lb)	Tray 1: up to 100 sheets of 75 g/m ² (20 lb bond) Tray 2: up to 250 sheets of 75 g/m ² (20 lb bond) Trays 3-6: up to 500 sheets of 75 g/m ² (20 lb bond)
Heavy paper	Same as for paper	Tray 1: up to 220 g/m ² (58 lb) Trays 3-6: up to 163 g/m ² (90 lb)	Tray 1: up to 10 mm (0.4 in) Tray 2: up to 25 mm (0.98 in) stack height Trays 3-6: up to 53 mm (2.1 in) stack height
Cover paper	Same as for paper	Tray 1: up to 220 g/m ² (58 lb) Trays 3-6: up to 163 g/m ² (90 lb)	Tray 1: up to 10 mm (0.4 in) Tray 2: up to 25 mm (0.98 in) stack height Trays 3-6: up to 53 mm (2.1 in) stack height
Glossy paper Photo paper	Same as for paper	Tray 1-6: up to 220 g/m ² (58 lb)	Tray 1: up to 10 mm (0.4 in) Tray 2: up to 20 mm (0.79 in) stack height Trays 3-6: up to 40 mm (1.6 in) stack height
Transparencies	A4 or Letter	Thickness: 0.12 to 0.13 mm (4.7 to 5.1 mils)	Tray 1: up to 10 mm (0.4 in)
Labels ³	A4 or Letter	Thickness: up to 0.23 mm (9 mils)	Tray 1: up to 10 mm (0.4 in)
Envelopes	<ul style="list-style-type: none"> • COM 10 • Monarch • DL • C5 • B5 	Up to 90 g/m ² (24 lb)	Tray 1: up to 10 envelopes

Media type	Dimensions¹	Weight	Capacity²
Postcards or index cards	76 x 127 mm (3 x 5 in)		Tray 1: up to 10 mm (0.4 in)

¹ The product supports a wide range of standard and custom sizes of print media. Check the printer driver for supported sizes.

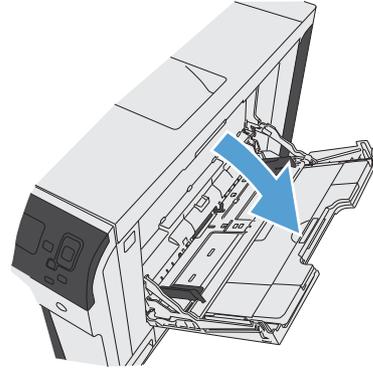
² Capacity can vary depending on media weight and thickness, and environmental conditions.

³ Smoothness: 100 to 250 (Sheffield)

Load paper trays

Load Tray 1

1. Open Tray 1.

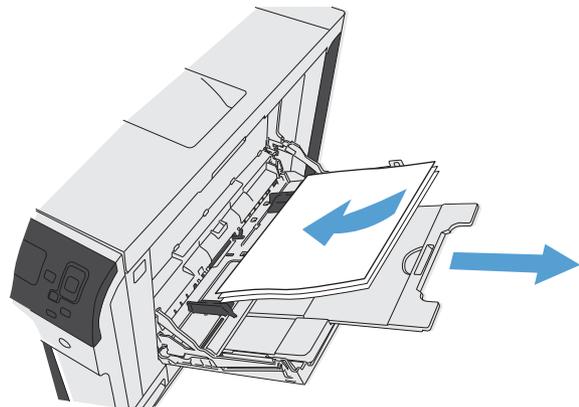


2. Pull out the tray extension to support the paper.

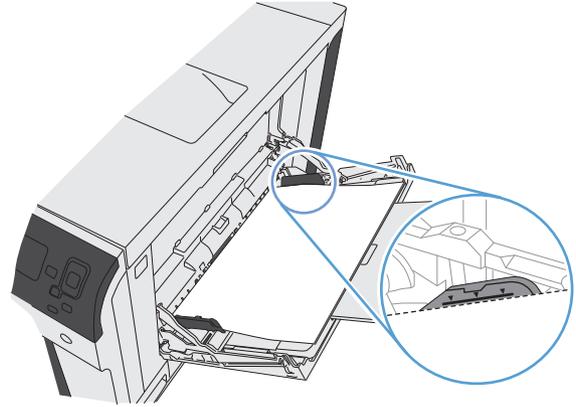


3. Load paper in the tray.

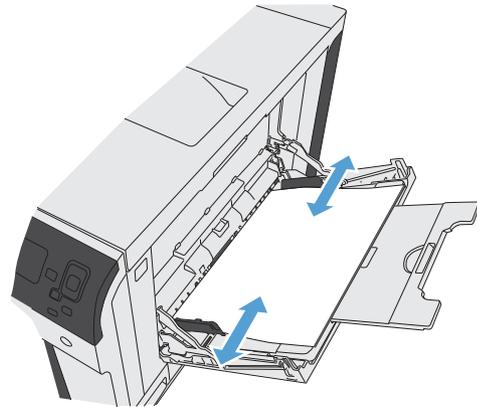
TIP: To achieve the highest print-quality, HP recommends that you load the paper long-edge first.



4. Make sure that the stack fits under the tabs on the guides and does not exceed the load-level indicators.



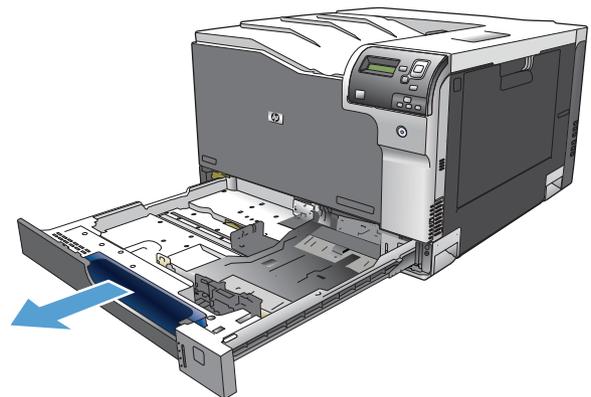
5. Adjust the side guides so that they lightly touch the paper stack but do not bend it.



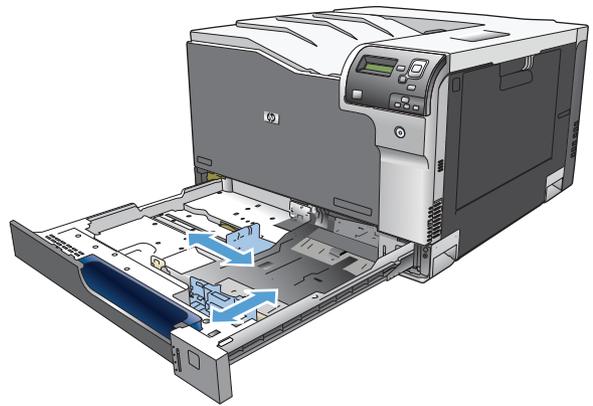
Load Tray 2, Tray 3, and optional Trays 4, 5, and 6 with standard-size paper

1. Open the tray.

NOTE: Do not open the tray while it is in use.



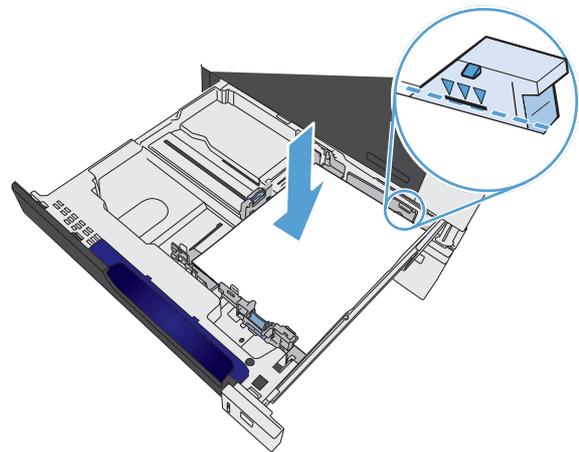
2. Adjust the paper-length and paper-width guides by squeezing the adjustment latches and sliding the guides to the size of the paper being used.



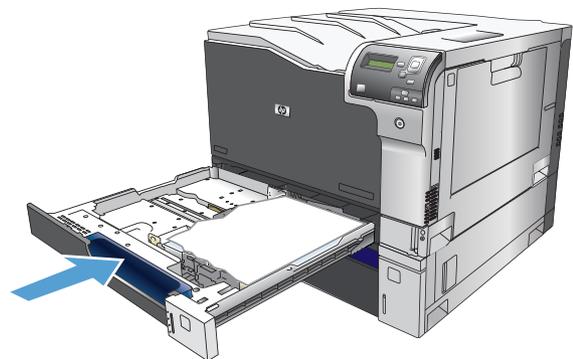
3. Load paper into the tray. Check the paper to verify the guides lightly touch the stack, but do not bend it.

NOTE: To prevent jams, do not overfill the tray. Be sure that the top of the stack is below the tray full indicator.

NOTE: If the tray is not adjusted correctly, an error message might appear during printing or the paper might jam.



4. Close the tray.

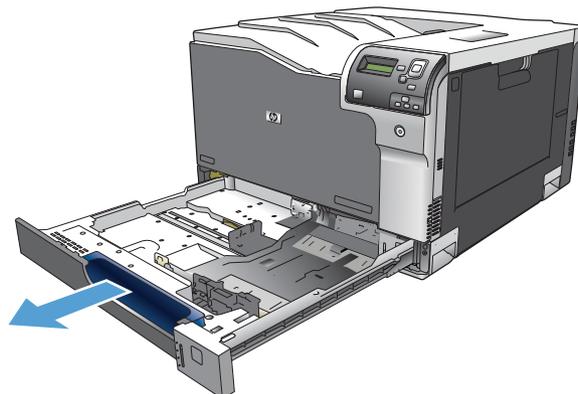


5. The control panel shows the tray's paper type and size. If the configuration is not correct, follow the instructions on the control panel to change the size or type.



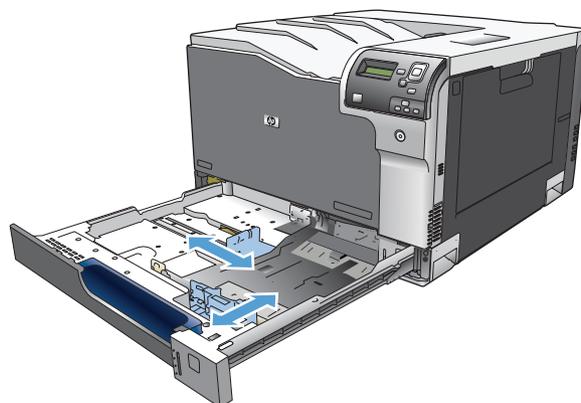
Load Tray 2, Tray 3, and optional Trays 4, 5, and 6 with custom-size paper

1. Open the tray.

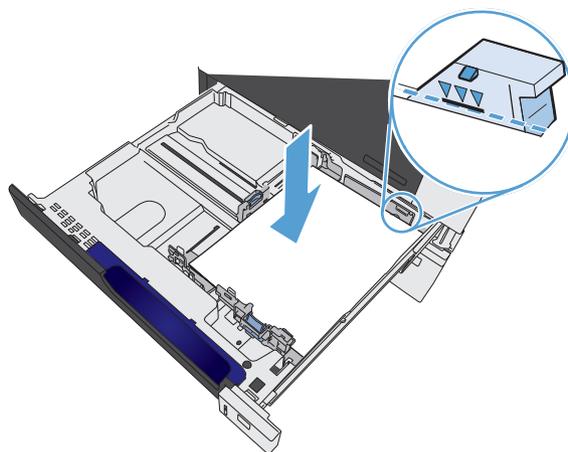


2. Adjust the paper-length and paper-width guides by squeezing the adjustment latches and sliding the guides to the size of the paper being used.

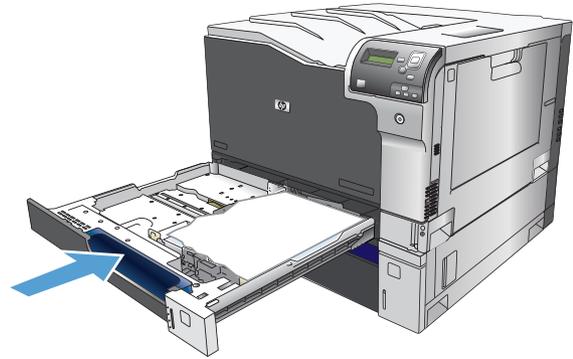
NOTE: It might be easier to load the custom-size paper first, and then adjust the guides.



3. Load paper into the tray. Check the paper to verify the guides lightly touch the stack, but do not bend it.

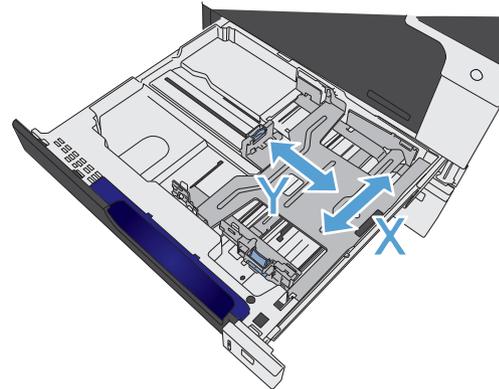


4. Close the tray.



5. The control panel prompts you to set the paper size and type. Select the **Custom** setting, and then configure the X and Y dimensions of the custom paper size.

NOTE: See the label in the paper tray, or the following illustration, to determine the X and Y dimensions.



Tray and bin capacity

Tray or bin	Paper type	Specifications	Quantity
Tray 1	Paper	Range: 60 g/m ² (16 lb) bond to 220 g/m ² (58 lb) bond	Maximum stack height: 10 mm (0.39 in) Equivalent to 100 sheets of 75 g/m ² (20 lb) bond
	Envelopes	Less than 60 g/m ² (16 lb) bond to 90 g/m ² (24 lb) bond	Up to 10 envelopes
	Labels	Maximum: 0.102 mm (0.004 in) thick	Maximum stack height: 10 mm (0.39 in)
	Transparencies	Minimum: 0.102 mm (0.004 in) thick	Maximum stack height: 10 mm (0.39 in) Up to 50 sheets
	Glossy paper	Range: 105 g/m ² (28 lb) bond to 220 g/m ² (58 lb) bond	Maximum stack height: 10 mm (0.39 in) Up to 50 sheets

Tray or bin	Paper type	Specifications	Quantity
Tray 2 ¹	Paper	Range: 60 g/m ² (16 lb) bond to 220 g/m ² (59 lb) bond	Maximum stack height: 25 mm (.98 in) Equivalent to 250 sheets of 75 g/m ² (20 lb) bond
	Transparencies	Minimum: 0.102 mm (0.004 in) thick	Maximum stack height: 25 mm (.98 in)
	Glossy paper	Range: 105 g/m ² (28 lb) bond to 220 g/m ² (58 lb) bond	Maximum stack height: 25 mm (.98 in)
Tray 3 and optional Trays 4, 5, and 6 ¹	Paper	Range: 60 g/m ² (16 lb) bond to 220 g/m ² (59 lb) bond	Equivalent to 500 sheets of 75 g/m ² (20 lb) bond Maximum stack height: 53 mm (2.1 in)
	Transparencies	Minimum: 0.102 mm (0.004 in) thick	Maximum stack height: 53 mm (2.1 in)
	Glossy paper	Range: 105 g/m ² (28 lb) bond to 220 g/m ² (58 lb) bond	Maximum stack height: 53 mm (2.1 in)
Output bin	Paper		Up to 300 sheets of 75 g/m ² (20 lb) bond

¹ Trays 2, 3, 4, 5, and 6 can print on bond paper heavier than 220 g/m² (59 lb) in some circumstances, but HP does not guarantee results.

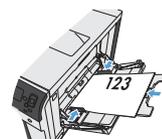
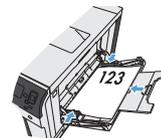
Paper orientation for loading trays

If you are using paper that requires a specific orientation, load it according to the information in the following tables.

 **NOTE:** The **Alternative Letterhead Mode** and **Image Rotation** settings affect the way you load letterhead or preprinted paper. The following information depicts the default setting.

Paper orientation for loading Tray 1

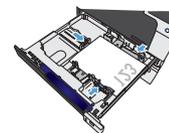
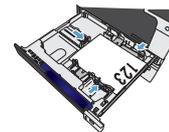
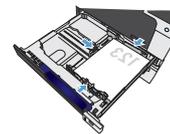
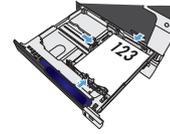
Paper type	Image orientation	Duplex mode	How to load paper
Preprinted or letterhead	Portrait	1-sided printing	Face down Top edge toward the back of the product
		Automatic 2-sided printing	Face up Top edge toward the back of the product
	Landscape	1-sided printing	Face down Top edge toward the back of the product
		Automatic 2-sided printing	Face up Top edge toward the back of the product



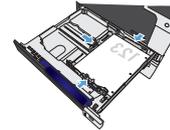
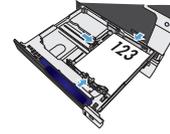
Paper type	Image orientation	Duplex mode	How to load paper
Prepunched	Portrait or landscape	1- or 2-sided printing	Face down Holes toward the right side of the tray 
Envelopes	Short edge of the envelope feeding into the product	1-sided printing	Face down Top edge toward the back of the product 

Paper orientation for loading Tray 2, Tray 3, or optional Trays 4, 5, and 6

Paper type	Image orientation	Duplex mode	How to load paper
Preprinted or letterhead	Portrait	1-sided printing	Face up Top edge at the back of the tray
		Automatic 2-sided printing	Face down Top edge at the back of the tray
	Landscape	1-sided printing	Face up Top edge toward the right side of the tray
		Automatic 2-sided printing	Face down Top edge toward the right side of the tray



Paper type	Image orientation	Duplex mode	How to load paper
Prepunched	Portrait	1-sided printing	Face up Holes toward the left side of the tray
		Automatic 2-sided printing	Face down Holes toward the right side of the tray



Configure trays

The product automatically prompts you to configure a tray for type and size in the following situations:

- When you load paper into the tray
- When you specify a particular tray or media type for a print job through the printer driver or a software program and the tray is not configured to match the print-job's settings

 **NOTE:** The prompt does not appear if you are printing from Tray 1, and it is configured for the **Any Size** and **Any Type** settings. In this situation, if the print job does not specify a tray, the product prints from Tray 1, even if the paper size and type settings in the print job do not match the paper loaded in Tray 1.

Configure a tray when loading paper

1. Load paper in the tray. Close the tray if you are using Tray 2, 3, 4, 5, or 6.
2. The tray configuration message appears.
3. Do one of the following:
 - Press the **OK** button to accept the size and type.
 - To modify the tray size configuration, press the down arrow ▼ to highlight the **Modify** option, and then press the **OK** button.
 - a. Press the down arrow ▼ to highlight the correct size, and then press the **OK** button.
 - b. Press the down arrow ▼ to highlight the correct type, and then press the **OK** button.

Configure a tray to match print job settings

1. In the software program, specify the source tray, the paper size, and the paper type.
2. Send the job to the product.

If the tray needs to be configured, the tray configuration message appears.
3. Load the tray with the specified type and size of paper, and then close the tray.
4. When the size and type confirmation messages appear, press the **OK** button to confirm the paper size and type.

Configure a tray from the control panel

You can also configure the trays for type and size without a prompt from the product.

1. Press the Home button .
2. Open the **Trays** menu.
3. Press the down arrow ▼ to highlight the size or type setting for the desired tray, and then press the **OK** button.

4. Press the up arrow ▲ or the down arrow ▼ to highlight the size or type. If you select a custom size, select the unit of measure, and then set the X dimension and the Y dimension.
5. Press the OK button to save your selection.
6. Press the Home button ⏠ to exit the menus.

Automatic paper sensing (auto-sense mode)

The automatic media type sensor functions when that tray is configured to the **Any Type** or plain type setting. It also functions when the **Print Mode** setting for that tray is set to the **Auto Sense Mode** option.

After it has picked up paper from the tray, the product can detect overhead transparencies, paper weight, and gloss level.

For more control, a specific type must be selected in the job or configured in a tray.

Auto-sense settings

Full sensing (Tray 1 only)	For each sheet of paper that it picks up from the tray, the product detects light paper, plain paper, heavy paper, glossy paper, tough paper, and transparencies.
Expanded sensing	For the first few sheets of paper that it picks up from the tray, the product detects light paper, plain paper, heavy paper, glossy paper, tough paper, and transparencies. The product assumes the rest of the pages are of the same type.
Transparency only	The product distinguishes between transparencies and non-transparencies.

Select the paper by source, type, or size

In the Microsoft Windows operating system, three settings affect how the printer driver tries to pull media when you send a print job. Source, Type, and Size settings appear in the **Page Setup**, **Print**, **Preferences**, or **Print Properties** dialog boxes in most software programs. Unless you change these settings, the product automatically selects a tray using the default settings.

Source

To print by source, select a specific tray in the printer driver for the product to pull from. If you select a tray that is configured for a type or size that does not match your print job, the product prompts you to load the tray with the type or size of paper for your print job before printing it. When you load the tray, the product begins printing.

Type and size

- Printing by type or size causes the product to pull from the tray that is loaded with the correct type and size of paper.
- Selecting paper by type rather than source helps protect special paper from accidental use.
- Using the wrong setting might result in unsatisfactory print quality. Always print by type for special print media, such as labels or transparencies.

- Print by type or size for envelopes, if possible.
- To print by type or size, select the type or size from the **Page Setup** dialog box, the **Print** dialog box, the **Preferences** dialog box, or the **Print Properties** dialog box, depending on the software program.
- If you often print on a certain type or size of paper, configure a tray for that type or size. Then, when you select that type or size as you print a job, the product automatically pulls paper from the tray that is configured for that type or size.

7 Manage supplies

- [Print cartridge information](#)
- [Supplies views](#)
- [Manage print cartridges](#)
- [Replacement instructions](#)
- [Solve problems with supplies](#)

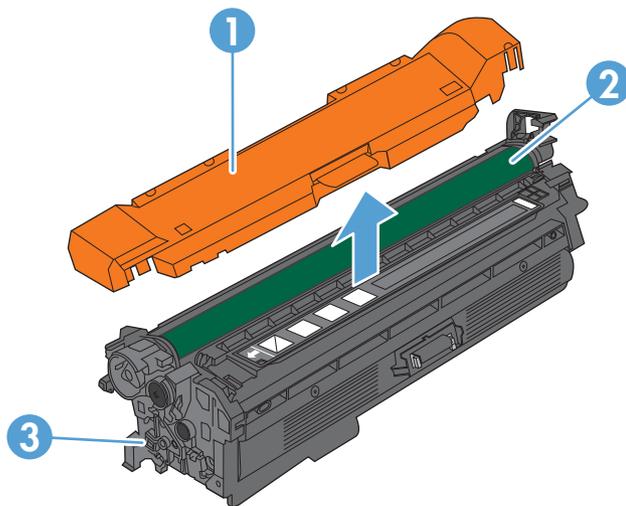
Print cartridge information

Feature	Description
Part numbers	<ul style="list-style-type: none">• Standard-capacity black print cartridge: CE270A• Cyan print cartridge: CE271A• Yellow print cartridge: CE272A• Magenta print cartridge: CE273A
Accessibility	<ul style="list-style-type: none">• The print cartridges can be installed and removed by using one hand.
Environmental features	<ul style="list-style-type: none">• Recycle print cartridges by using the HP Planet Partners return and recycling program.

For more information about supplies, go to www.hp.com/go/learnaboutesupplies.

Supplies views

Print cartridge views



1	Plastic shield
2	Imaging drum
3	Print cartridge memory tag

Manage print cartridges

Correctly using, storing, and monitoring the print cartridge can help ensure high-quality print output.

Settings for print cartridges

Print when a print cartridge is at estimated end of life

- A **<Color> <Supply> Low** message—where <Color> is the color of the supply, and <Supply> is the type of supply—appears when a supply is nearing the estimated end of its useful life.
- A **<Color> <Supply> Very Low** message appears when a supply is at its estimated end of useful life.

Print-quality problems can occur when using a supply that is at its estimated end of life.

Enable or disable the Very Low Settings options from the control panel

You can enable or disable the default settings at any time, and you do not have to re-enable them when you install a new cartridge.

△ **CAUTION:** Once an HP supply has reached Very Low, the HP premium Protection Warranty on that supply has ended.

1. At the control panel, press the Home button .
2. Open the following menus:
 1. **Administration**
 2. **Manage Supplies**
 3. **Supply Settings**
 4. **Black Cartridge** or **Color Cartridges**
 5. **Very Low Settings**
3. Use the arrow buttons to highlight your selection, and then press the **OK** button to select it. Select one of the following options:

 **NOTE:** If you select the **Stop** or **Prompt to continue** option, the product stops printing when it reaches the Very Low threshold. When you replace the cartridge, the product automatically resumes printing.

- Select the **Stop** option to set the product to stop printing until you replace the cartridge.
- Select the **Prompt to continue** option to set the product to stop printing and prompt you to replace the cartridge. You can acknowledge the prompt and continue printing.
- Select the **Continue** option to set the product to alert you that the cartridge is very low, but to continue printing.

 **NOTE:** Using the **Continue** setting allows printing beyond Very Low without customer interaction and can result in unsatisfactory print quality.

Recycle supplies

To recycle a genuine HP print cartridge, place the used cartridge in the box in which the new cartridge arrived. For complete information, see the recycling guide that is included with each new HP supply item.

Print-cartridge storage

Do not remove the print cartridge from its package until you are ready to use it.

△ **CAUTION:** To prevent damage to the print cartridge, do not expose it to light for more than a few minutes.

HP policy on non-HP print cartridges

Hewlett-Packard Company cannot recommend the use of non-HP print cartridges, either new or remanufactured.

📄 **NOTE:** Any damage caused by a non-HP print cartridge is not covered under the HP warranty and service agreements.

HP fraud hotline and Web site

Call the HP fraud hotline (1-877-219-3183, toll-free in North America) or go to www.hp.com/go/anticounterfeit when you install an HP print cartridge and the control-panel message says the cartridge is non-HP. HP will help determine if the cartridge is genuine and take steps to resolve the problem.

Your print cartridge might not be a genuine HP print cartridge if you notice the following:

- The supplies status page indicates that a non-HP supply is installed.
- You are experiencing a high number of problems with the print cartridge.
- The cartridge does not look like it usually does (for example, the packaging differs from HP packaging).

Replacement instructions

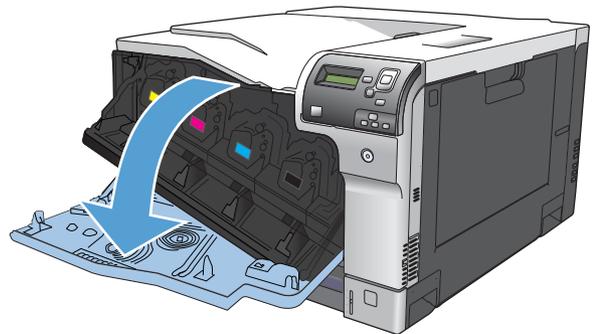
Replace print cartridges

The product uses four colors and has a different print cartridge for each color: black (K), magenta (M), cyan (C), and yellow (Y).

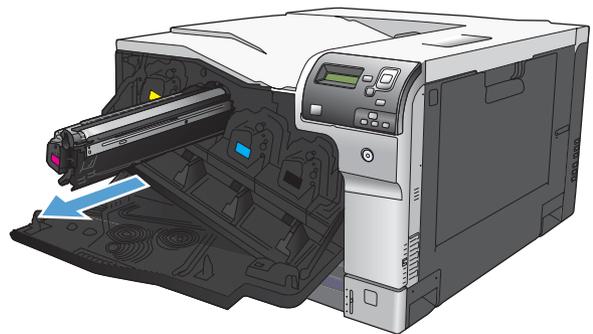
△ **CAUTION:** If toner gets on clothing, wipe it off with a dry cloth and wash the clothes in cold water. Hot water sets toner into fabric.

📄 **NOTE:** Information about recycling used print cartridges is on the print-cartridge box.

1. Open the front door. Make sure that the door is completely open.



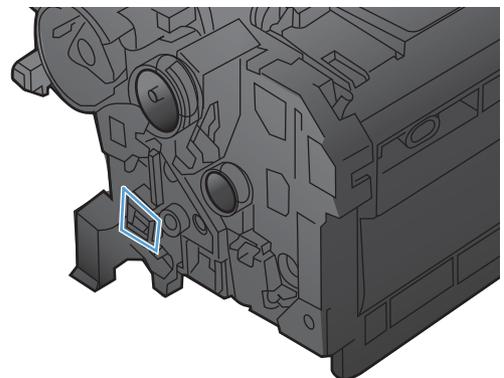
2. Grasp the handle of the used print cartridge and pull out to remove.



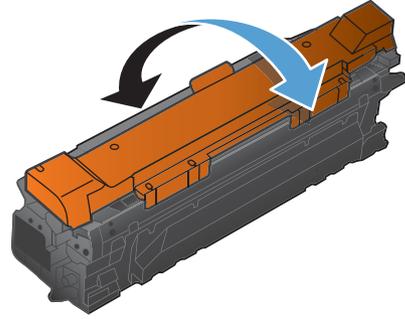
3. Store the used print cartridge in a protective bag. Information about recycling used print cartridges is on the print-cartridge box.

4. Remove the new print cartridge from its protective bag.

NOTE: Be careful not to damage the memory tag on the print cartridge.



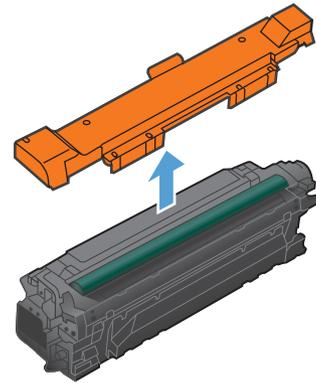
5. Grasp both sides of the print cartridge and distribute the toner by gently rocking the print cartridge.



6. Remove the orange protective cover from the print cartridge.

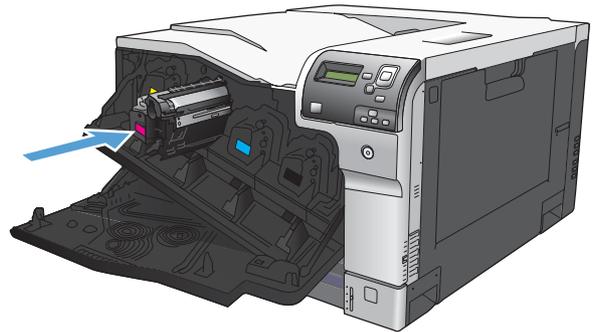
CAUTION: Avoid prolonged exposure to light.

CAUTION: Do not touch the green roller. Doing so can damage the cartridge.

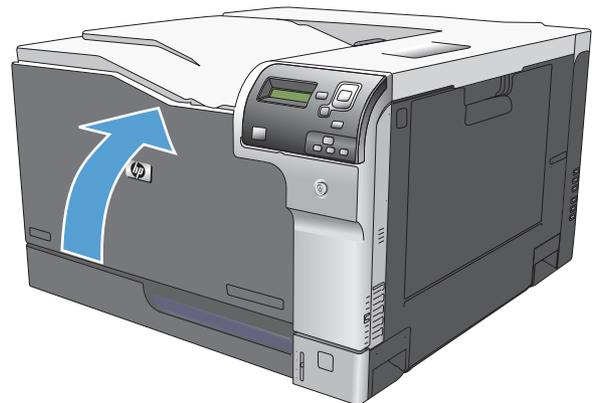


7. Align the print cartridge with its slot and insert the print cartridge until it clicks into place.

NOTE: The print cartridges go in at a slight angle.



8. Close the front door.

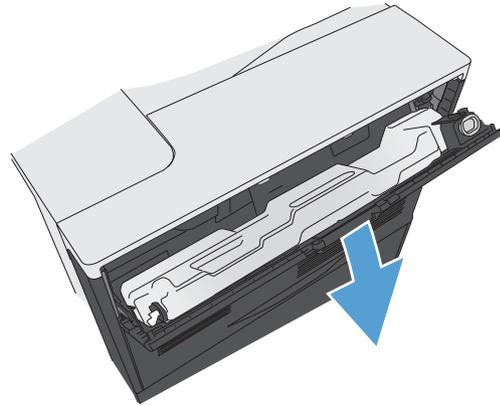


Replace the toner collection unit

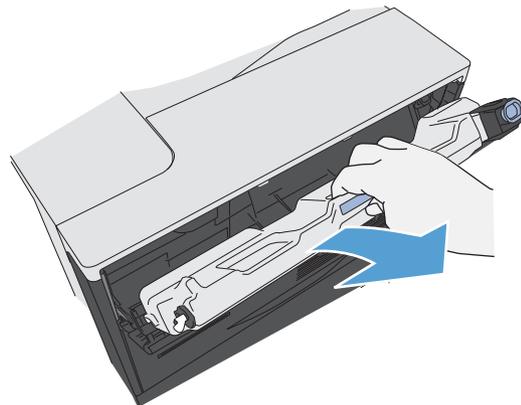
Replace the toner collection unit when the control panel prompts you.

 **NOTE:** The toner collection unit is designed for a single use. Do not attempt to empty the toner collection unit and reuse it. Doing so could lead to toner being spilled inside the product, which could result in reduced print quality. After use, return the toner collection unit to HP's Planet Partners program for recycling.

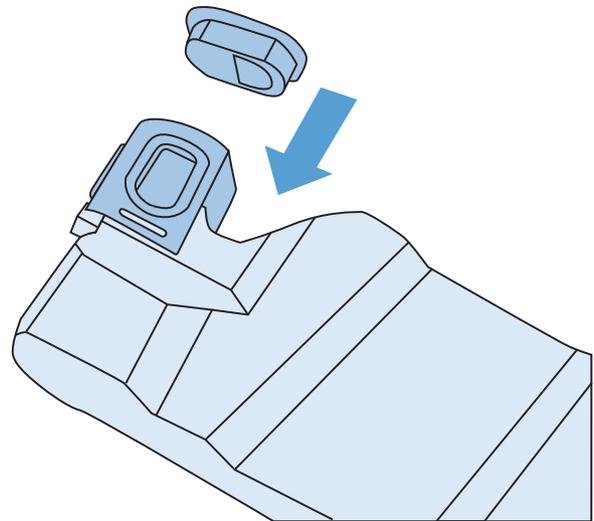
1. Open the rear door. Make sure that the door is completely open.



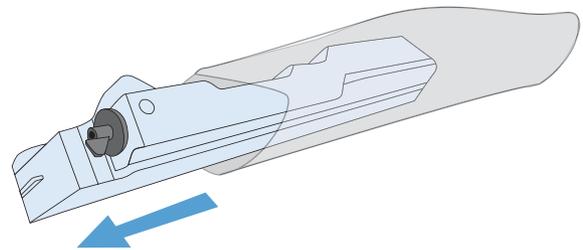
2. Grasp the top of the toner collection unit and remove it from the product.



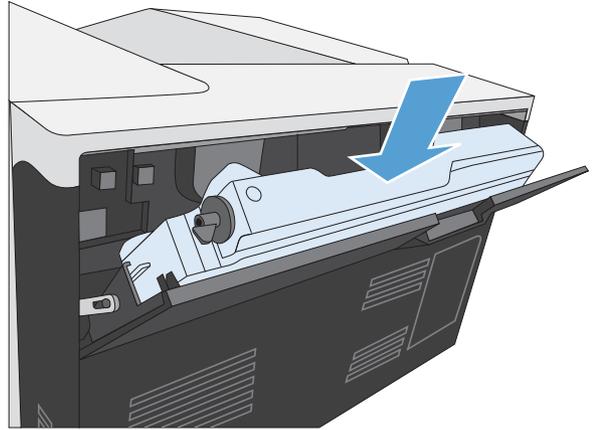
3. Place the attached cap over the opening at the top of the unit.



4. Remove the new toner collection unit from its packaging.

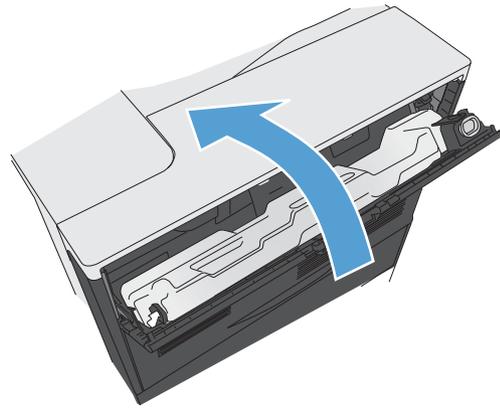


5. Insert the bottom of the new unit into the product first and then push the top of the unit until it clicks into place.



6. Close the rear door.

To recycle the used toner collection unit, follow the instructions included with the new toner collection unit.



Solve problems with supplies

Check the print cartridges

Check the print cartridge, and replace it if necessary, if you are having any of the following problems:

- The printing is too light or seems faded in areas.
- Printed pages have small unprinted areas.
- Printed pages have streaks or bands.

 **NOTE:** If you are using a draft or EconoMode print setting, the printing might appear light.

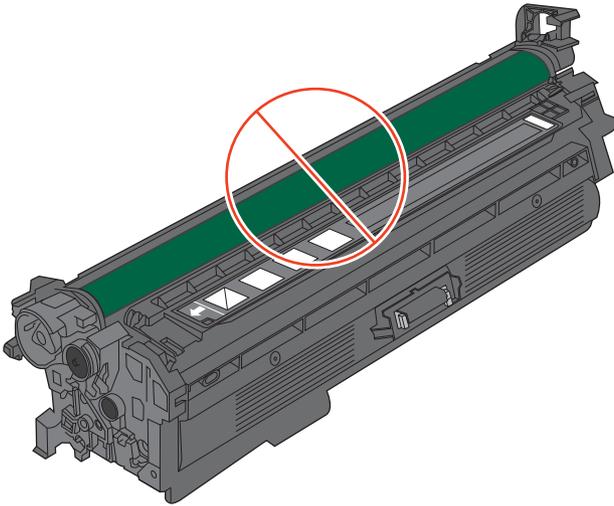
If you determine that you need to replace a print cartridge, print the supplies status page to find the part number for the correct genuine HP print cartridge.

Type of print cartridge	Steps to resolve the problem
Refilled or remanufactured print cartridge	Hewlett-Packard Company cannot recommend the use of non-HP supplies, either new or remanufactured. Because they are not HP products, HP cannot influence their design or control their quality. If you are using a refilled or remanufactured print cartridge and are not satisfied with the print quality, replace the cartridge with a genuine HP cartridge that has the words "HP" or "Hewlett-Packard" on it, or has the HP logo on it.
Genuine HP print cartridge	<ol style="list-style-type: none">1. The product control panel or the supplies status page indicates Very Low status when the cartridge has reached the end of its designated life. Replace the print cartridge if print quality is no longer acceptable.2. Visually inspect the print cartridge for damage. See the instructions that follow. Replace the print cartridge if necessary.3. If printed pages have marks that repeat several times at the same distance apart, print a cleaning page. If this does not solve the problem, use the repeating defects information in this document to identify the cause of the problem.

Inspect the print cartridge for damage

1. Remove the print cartridge from the product, and verify that the sealing tape has been removed.
2. Check the memory chip for damage.
3. Examine the surface of the green imaging drum on the bottom of the print cartridge.

△ **CAUTION:** Do not touch the green roller (imaging drum) on the bottom of the cartridge. Fingerprints on the imaging drum can cause print-quality problems.



4. If you see any scratches, fingerprints, or other damage on the imaging drum, replace the print cartridge.
5. If the imaging drum does not appear to be damaged, rock the print cartridge gently several times and reinstall it. Print a few pages to see if the problem has resolved.

Repeating defects

If defects repeat at regular intervals on the page, use this ruler to identify the cause of the defect. Place the top of the ruler at the first defect. The marking that is beside the next occurrence of the defect indicates which component needs to be replaced.

Distance between defects	Product components that cause the defect
35 mm	Print cartridge (primary charging roller)
42 mm	Print cartridge (developer roller)
50 mm	Print engine (primary transfer roller)
61 mm	Print engine (secondary transfer roller)
76 mm	Fuser (fuser film)
78 mm	Fuser (pressure roller)
94 mm	Print cartridge (OPC)

Print the Supplies Status page

The **Print Supplies Status** page indicates the estimated life remaining in print cartridges. It also lists the part number for the correct genuine HP print cartridge for your product so you can order a replacement print cartridge, as well as other useful information.

1. At the control panel, press the Home button .
2. Open the following menus:
 1. **Administration**
 2. **Reports**
 3. **Configuration/Status Pages**
3. Use the down arrow button ▼ to highlight the **Supplies Status Page** item, and then press the **OK** button to select it.
4. Use the up arrow button ▲ to highlight the **Print** item, and then press the **OK** button.

Interpret control panel messages for supplies

The following table contains important information about supplies status messages.

Table 7-1 Supplies status messages

Control panel message	Description	Recommended action
10.XX.YY Supply memory error	<p>The product cannot read or write to at least one print cartridge memory chip or a memory chip is missing from a print cartridge.</p> <p>Memory chip memory errors</p> <ul style="list-style-type: none">• YY = 00• XX = 00 - Black• XX = 01 - Cyan• XX = 02 - Magenta• XX = 03 - Yellow <p>Memory chip missing errors</p> <ul style="list-style-type: none">• YY = 10• XX = 00 - Black• XX = 01 - Cyan• XX = 02 - Magenta• XX = 03 - Yellow	<p>Reinstall the print cartridge, or install a new print cartridge.</p>
Black cartridge low	<p>The print cartridge is nearing the estimated end of its useful life.</p>	<p>The product indicates when the print cartridge level is low. The actual print cartridge life remaining can vary. Consider having a replacement cartridge available to install when the print quality is no longer acceptable. The print cartridge does not need to be replaced now.</p>
Black cartridge very low	<p>The print cartridge is at the estimated end of its useful life.</p> <p>Print quality might decrease. Replace the print cartridge when the print quality becomes unacceptable.</p>	<p>To ensure optimal print quality, HP recommends replacing the print cartridge at this point. You do not need to replace the print cartridge at this time unless the print quality is no longer acceptable. The actual print cartridge life can vary.</p> <p>Once an HP print cartridge has reached the very low threshold, the HP Premium Protection Warranty on that print cartridge has ended. All print defects or print cartridge failures incurred when an HP print cartridge is used in "continue in very low" mode will not be considered to be defects in materials or workmanship in the print cartridge under the HP Print Cartridge Warranty Statement.</p>

Table 7-1 Supplies status messages (continued)

Control panel message	Description	Recommended action
Cyan cartridge low	The print cartridge is nearing the estimated end of its useful life.	The product indicates when the print cartridge level is low. The actual print cartridge life remaining can vary. Consider having a replacement cartridge available to install when the print quality is no longer acceptable. The print cartridge does not need to be replaced now.
Cyan cartridge very low	<p>The print cartridge is at the estimated end of its useful life.</p> <p>Print quality might decrease. Replace the print cartridge when the print quality becomes unacceptable.</p>	<p>To ensure optimal print quality, HP recommends replacing the print cartridge at this point. You do not need to replace the print cartridge at this time unless the print quality is no longer acceptable. The actual print cartridge life can vary.</p> <p>Once an HP print cartridge has reached the very low threshold, the HP Premium Protection Warranty on that print cartridge has ended. All print defects or print cartridge failures incurred when an HP print cartridge is used in "continue in very low" mode will not be considered to be defects in materials or workmanship in the print cartridge under the HP Print Cartridge Warranty Statement.</p>
Fuser kit low	The fuser kit is low. The actual supply life remaining might vary. Consider having a replacement fuser kit available to install when print quality is no longer acceptable. You do not need to replace the fuser kit at this time unless print quality is no longer acceptable.	If print quality is no longer acceptable, replace the fuser kit. Instructions are included with the fuser kit.
Fuser kit very low	The fuser kit is very low. The actual supply life remaining might vary. You do not need to replace the fuser kit at this time unless print quality is no longer acceptable. After an HP supply has reached the very low threshold, the HP Premium Protection Warranty for that supply has ended.	If print quality is no longer acceptable, replace the fuser kit. Instructions are included with the fuser kit.
Incompatible <color> cartridge	The indicated color print cartridge is not compatible with this product.	Replace the print cartridge with one that is designed for this product.
Incompatible fuser	The fuser is not compatible with this product.	<p>WARNING! The fuser can be hot while the product is in use. Wait for the fuser to cool before handling it.</p> <ol style="list-style-type: none">1. Open the right door.2. Remove the incompatible fuser.3. Install the correct fuser.4. Close the right door.

Table 7-1 Supplies status messages (continued)

Control panel message	Description	Recommended action
Magenta cartridge low	The print cartridge is nearing the estimated end of its useful life.	The product indicates when the print cartridge level is low. The actual print cartridge life remaining can vary. Consider having a replacement cartridge available to install when the print quality is no longer acceptable. The print cartridge does not need to be replaced now.
Magenta cartridge very low	<p>The print cartridge is at the estimated end of its useful life.</p> <p>Print quality might decrease. Replace the print cartridge when the print quality becomes unacceptable.</p>	<p>To ensure optimal print quality, HP recommends replacing the print cartridge at this point. You do not need to replace the print cartridge at this time unless the print quality is no longer acceptable. The actual print cartridge life can vary.</p> <p>Once an HP print cartridge has reached the very low threshold, the HP Premium Protection Warranty on that print cartridge has ended. All print defects or print cartridge failures incurred when an HP print cartridge is used in "continue in very low" mode will not be considered to be defects in materials or workmanship in the print cartridge under the HP Print Cartridge Warranty Statement.</p>
Replace <color> cartridge	This alert appears only if the product is configured to stop when the print cartridge reaches the very low threshold. The product indicates when a supply level is at its estimated end of life. The actual life remaining might be different than the estimation. Have a replacement supply available to install when print quality is no longer acceptable. The supply does not need to be replaced now unless the print quality is no longer acceptable. After an HP supply has reached its approximated end of life, the HP Premium Protection Warranty on that supply ends.	<p>Replace the specified color cartridge.</p> <p>Or, configure the product to continue printing by using the Manage Supplies menu.</p>
Replace fuser kit	The product indicates when the fuser kit is at its estimated end of life. The actual life remaining might be different than the estimation. Have a replacement fuser kit available to install when print quality is no longer acceptable. The fuser kit does not need to be replaced now unless the print quality is no longer acceptable. After the fuser kit reaches its approximated end of life, the HP Premium Protection Warranty on that fuser kit ends.	<p>WARNING! The fuser can be hot while the product is in use. Wait for the fuser to cool before handling it.</p> <p>Replace the fuser kit. Instructions are included with the fuser kit.</p>

Table 7-1 Supplies status messages (continued)

Control panel message	Description	Recommended action
Replace supplies	<p>This alert appears only if the product is configured to stop when the print cartridges reach the "very low" threshold. Two or more supplies are at the estimated end of life. The actual life remaining might be different than the estimation. Consider having replacement supplies available to install when print quality is no longer acceptable. The supply does not need to be replaced now unless the print quality is no longer acceptable. After an HP supply has reached its approximated end of life, the HP Premium Protection Warranty on that supply ends.</p>	<p>Replace the necessary supplies.</p> <p>Or, configure the product to continue printing by using the Manage Supplies menu.</p>
Replace toner collection unit	<p>The product indicates when a toner collection unit is full and needs to be replaced. Continuing to print without replacing the toner collection unit might cause product damage, toner spill, or other error conditions. Have a replacement toner collection unit available to install. After a toner collection unit has become full, the HP Premium Protection Warranty on that toner collection unit ends.</p>	<p>Replace the toner collection unit.</p>
Replace transfer kit	<p>The product indicates when a transfer kit is at its estimated end of life. The actual life remaining might be different than the estimation. Have a replacement transfer kit available to install when print quality is no longer acceptable. The transfer kit does not need to be replaced now unless the print quality is no longer acceptable. After a transfer kit has reached its approximated end of life, the HP Premium Protection Warranty on that transfer kit ends.</p>	<p>Replace the transfer kit. Instructions are included with the transfer kit.</p>
Supplies in wrong position	<p>Two or more print-cartridge slots contain the wrong color print cartridge.</p> <p>From left to right, the print cartridges should be installed in this order:</p> <ul style="list-style-type: none">• Yellow• Magenta• Cyan• Black	<p>Install the correct color cartridge in each slot.</p>

Table 7-1 Supplies status messages (continued)

Control panel message	Description	Recommended action
Supplies low	This message appears when at least two supplies have reached the low threshold. The actual supply life remaining might vary. Identify which supplies are low. You do not need to replace the supplies at this time unless print quality is no longer acceptable. After an HP supply has reached the very low threshold, the HP Premium Protection Warranty for that supply has ended.	To continue printing in color, either replace the supply or reconfigure the product by using the Manage Supplies menu on the control panel.
Supplies very low	This message appears when at least two supplies have reached the very low threshold. Identify which supplies are low. The actual supply life remaining might vary. You do not need to replace the supplies at this time unless print quality is no longer acceptable. After an HP supply has reached the very low threshold, the HP Premium Protection Warranty for that supply has ended.	To continue printing in color, either replace the supply or reconfigure the product by using the Manage Supplies menu on the control panel.
Toner Collection Unit Almost Full	The toner collection unit is almost full. This condition is equivalent to the supply life being low. The actual supply life can vary. You do not need to replace the toner collection unit at this time.	No action is necessary to continue.
Transfer kit low	This message appears when the transfer kit reaches the low threshold. The actual supply life remaining might vary. You do not need to replace the transfer kit at this time unless print quality is no longer acceptable.	No action is necessary to continue. If the print quality is no longer acceptable, replace the transfer kit. Instructions are included with the new transfer kit.
Transfer kit very low	This message appears when the transfer kit has reached the very low threshold. The actual supply life remaining might vary. You do not need to replace the supplies at this time unless print quality is no longer acceptable. After an HP supply has reached the very low threshold, the HP Premium Protection Warranty for that supply has ended.	To continue printing, either replace the transfer kit or reconfigure the product to continue printing by using the Manage Supplies menu on the control panel.
Unsupported supply installed	One of the print cartridges is for a different HP product.	If print quality is no longer acceptable, replace the print cartridge.
Used supply in use	One of the print cartridges has been previously used.	If you believe you purchased a genuine HP supply, go to www.hp.com/go/anticounterfeit .

Table 7-1 Supplies status messages (continued)

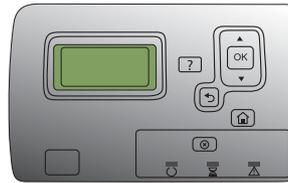
Control panel message	Description	Recommended action
Wrong cartridge in <color> slot	<p>The indicated slot for a print cartridge contains a cartridge that is not the correct color. From left to right, the print cartridges should be installed in this order:</p> <ul style="list-style-type: none">• Yellow• Magenta• Cyan• Black	<p>Remove the print cartridge from that slot, and install a cartridge that is the correct color.</p>
Yellow cartridge low	<p>The print cartridge is nearing the estimated end of its useful life.</p>	<p>The product indicates when the print cartridge level is low. The actual print cartridge life remaining can vary. Consider having a replacement cartridge available to install when the print quality is no longer acceptable. The print cartridge does not need to be replaced now.</p>
Yellow cartridge very low	<p>The print cartridge is at the estimated end of its useful life.</p> <p>Print quality might decrease. Replace the print cartridge when the print quality becomes unacceptable.</p>	<p>To ensure optimal print quality, HP recommends replacing the print cartridge at this point. You do not need to replace the print cartridge at this time unless the print quality is no longer acceptable. The actual print cartridge life can vary.</p> <p>Once an HP print cartridge has reached the very low threshold, the HP Premium Protection Warranty on that print cartridge has ended. All print defects or print cartridge failures incurred when an HP print cartridge is used in "continue in very low" mode will not be considered to be defects in materials or workmanship in the print cartridge under the HP Print Cartridge Warranty Statement.</p>

8 Print tasks

- [Cancel a print job](#)
- [Basic print tasks with Windows](#)
- [Additional print tasks with Windows](#)
- [Walk-up USB printing](#)

Cancel a print job

1. Press the stop button  on the control panel.



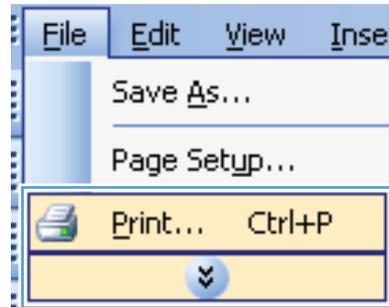
2. Press the down arrow  to highlight the **Cancel Current Job** option, and then press the **OK** button.

NOTE: It can take some time for all printing to clear after you have canceled a print job.

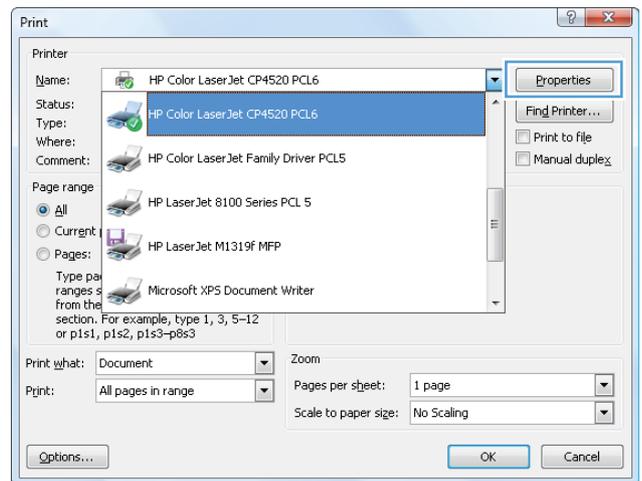
Basic print tasks with Windows

Open the printer driver with Windows

1. On the **File** menu in the software program, click **Print**.

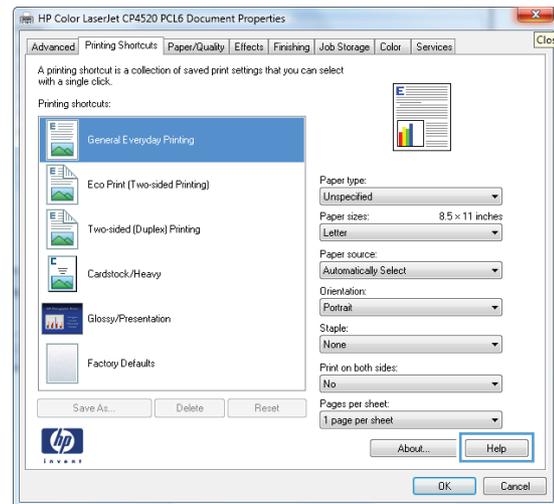


2. Select the product, and then click the **Properties** or **Preferences** button.



Get help for any printing option with Windows

1. Click the **Help** button to open the online Help.



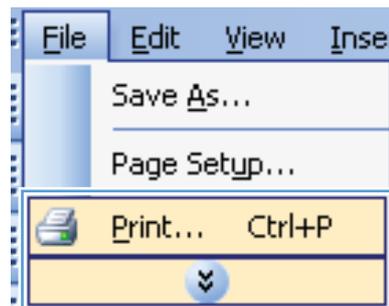
Change the number of print copies with Windows

1. On the **File** menu in the software program, click **Print**.
2. Select the product, and then select the number of copies.

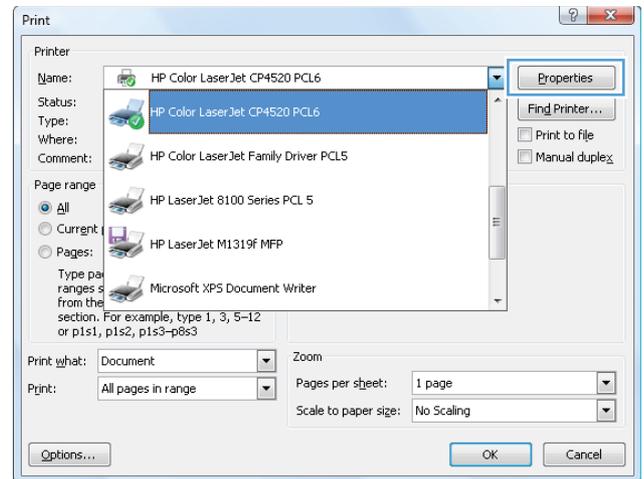
Save custom print settings for reuse with Windows

Use a printing shortcut with Windows

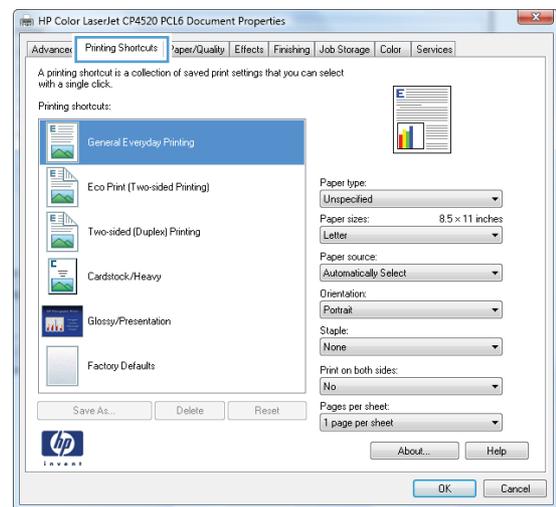
1. On the **File** menu in the software program, click **Print**.



2. Select the product, and then click the **Properties** or **Preferences** button.

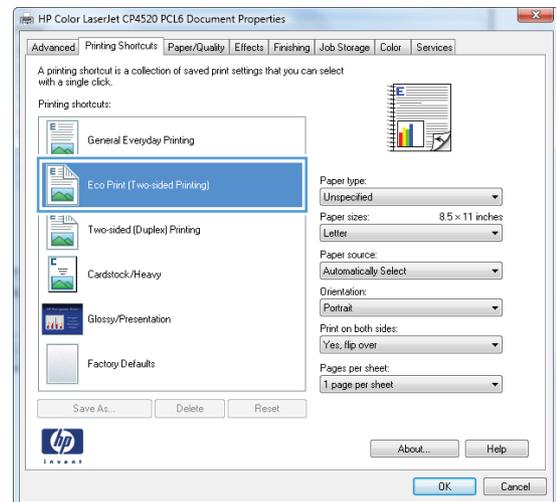


3. Click the **Printing Shortcuts** tab.



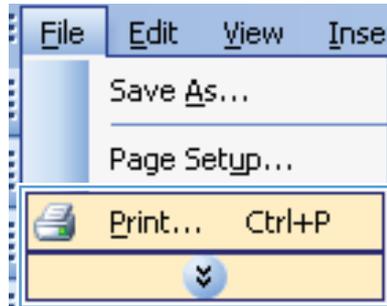
4. Select one of the shortcuts, and then click the **OK** button.

NOTE: When you select a shortcut, the corresponding settings change on the other tabs in the printer driver.

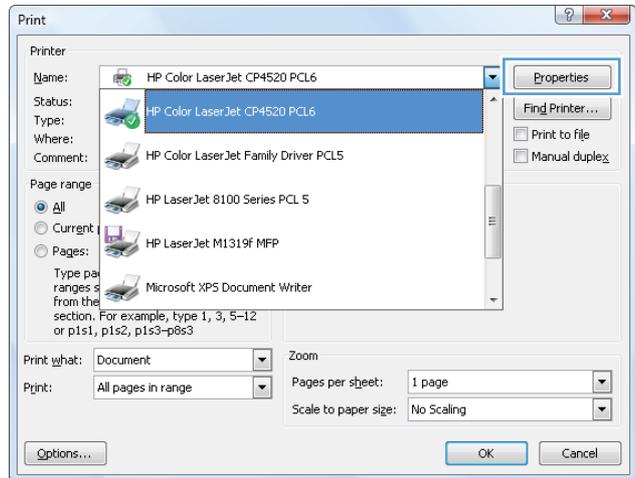


Create printing shortcuts

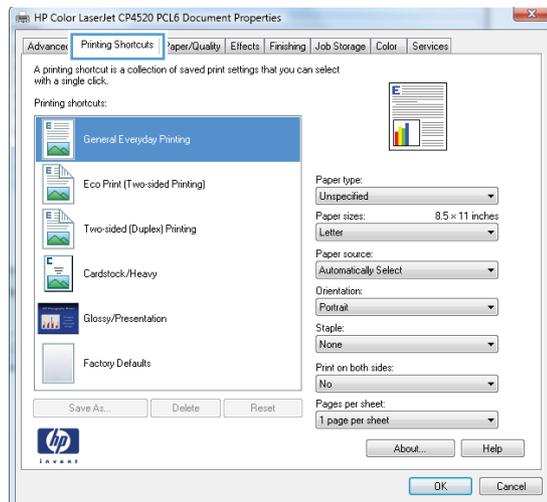
1. On the **File** menu in the software program, click **Print**.



2. Select the product, and then click the **Properties** or **Preferences** button.

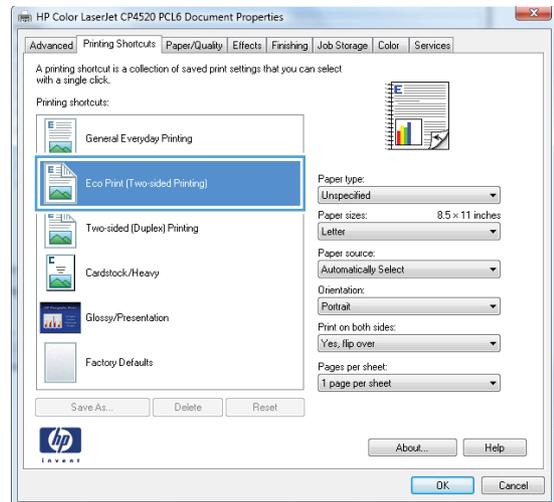


3. Click the **Printing Shortcuts** tab.

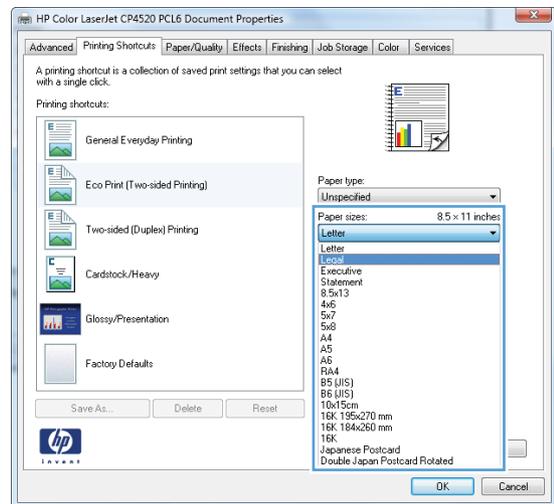


4. Select an existing shortcut as a base.

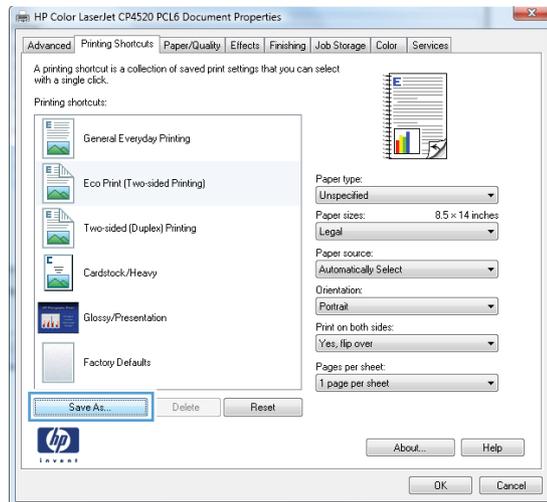
NOTE: Always select a shortcut before adjusting any of the settings on the right side of the screen. If you adjust the settings and then select a shortcut, all your adjustments are lost.



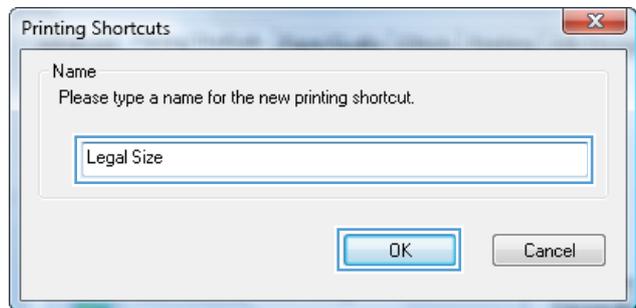
5. Select the print options for the new shortcut.



6. Click the **Save As** button.



7. Type a name for the shortcut, and click the **OK** button.



Improve print quality with Windows

Select the page size with Windows

1. On the **File** menu in the software program, click **Print**.
2. Select the product, and then click the **Properties** or **Preferences** button.
3. Click the **Paper/Quality** tab.
4. Select a size from the **Paper size** drop-down list.

Select a custom page size with Windows

1. On the **File** menu in the software program, click **Print**.
2. Select the product, and then click the **Properties** or **Preferences** button.
3. Click the **Paper/Quality** tab.
4. Click the **Custom** button.
5. Type a name for the custom size, specify the dimensions, and click the **OK** button.

Select the paper type with Windows

1. On the **File** menu in the software program, click **Print**.
2. Select the product, and then click the **Properties** or **Preferences** button.
3. Click the **Paper/Quality** tab.
4. From the **Paper type** drop-down list, click the **More...** option.
5. Expand the list of **Type is:** options.
6. Expand the category of paper types that best describes your paper, and then click the paper type that you are using.

Select the paper tray with Windows

1. On the **File** menu in the software program, click **Print**.
2. Select the product, and then click the **Properties** or **Preferences** button.
3. Click the **Paper/Quality** tab.
4. Select a tray from the **Paper source** drop-down list.

Select the print resolution

1. On the **File** menu in the software program, click **Print**.
2. Select the product, and then click the **Properties** or **Preferences** button.

3. Click the **Paper/Quality** tab.
4. In the **Print Quality** area, select the resolution from the first drop-down list.

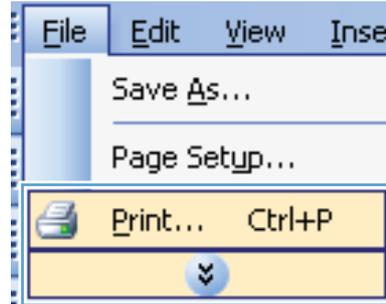
Print on both sides (duplex) with Windows

 **NOTE:** See [Paper orientation for loading trays on page 85](#) for information about the correct way to load paper.

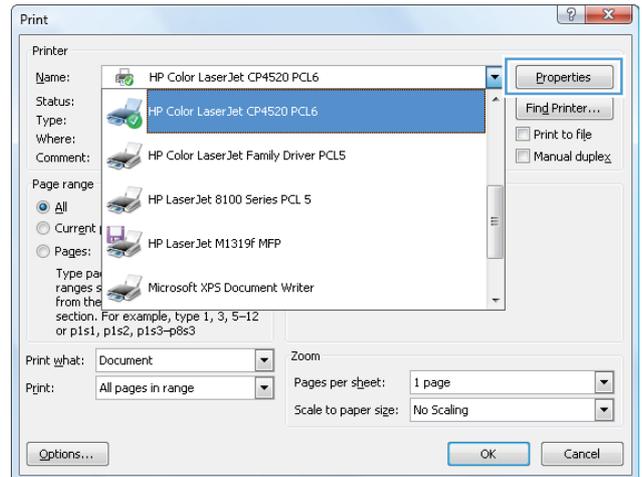
Manually print on both sides with Windows

 **NOTE:** This information applies only to products that do not have an automatic duplexer.

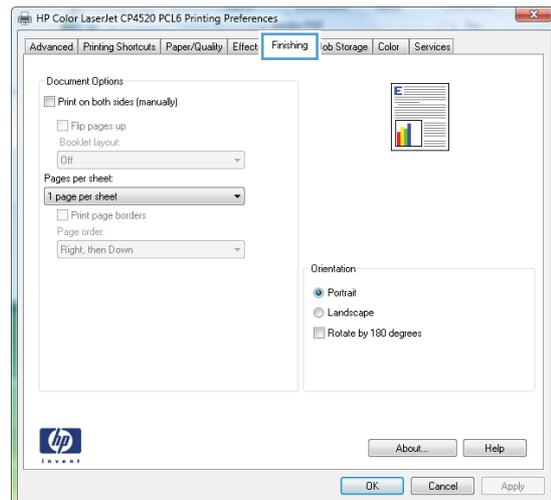
1. On the **File** menu in the software program, click **Print**.



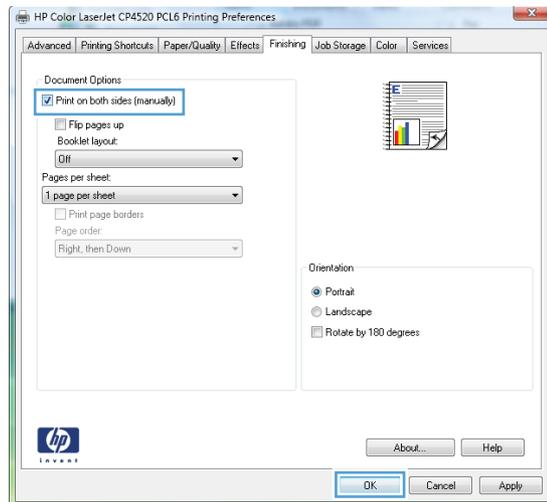
2. Select the product, and then click the **Properties** or **Preferences** button.



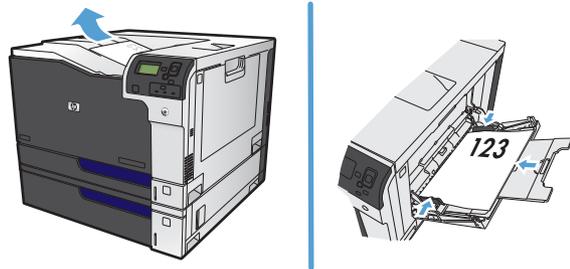
3. Click the **Finishing** tab.



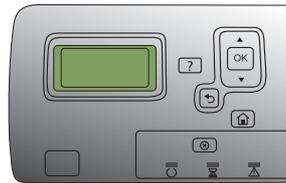
4. Select the **Print on both sides (manually)** check box. Click the **OK** button to print the first side of the job.



5. Retrieve the printed stack from the output bin, and place it with the printed-side facing up in Tray 1.



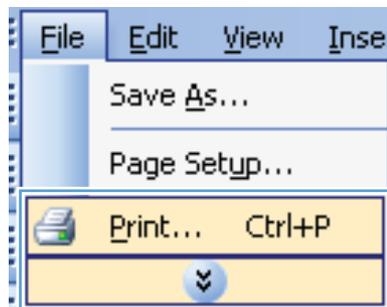
6. On the control panel, press the **OK** button to print the second side of the job.



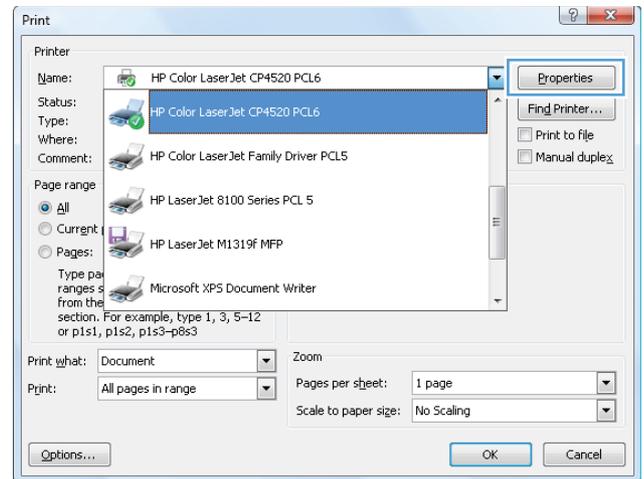
Automatically print on both sides with Windows

 **NOTE:** This information applies only to products that have an automatic duplexer.

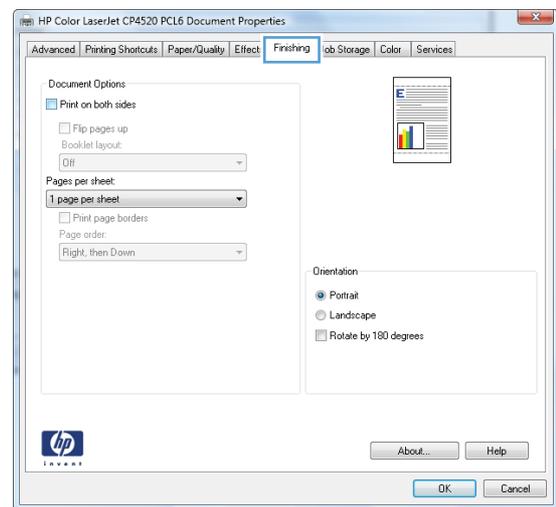
1. On the **File** menu in the software program, click **Print**.



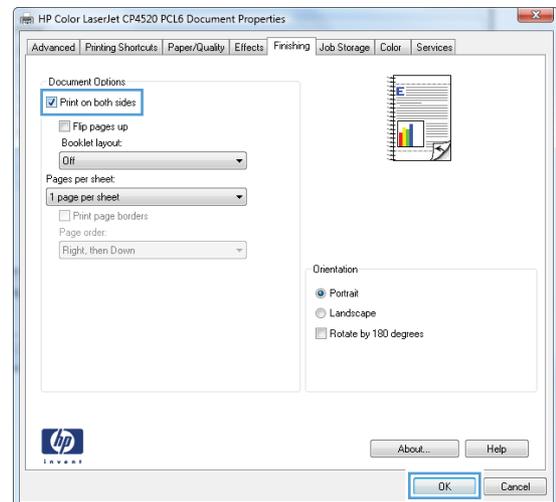
2. Select the product, and then click the **Properties** or **Preferences** button.



3. Click the **Finishing** tab.

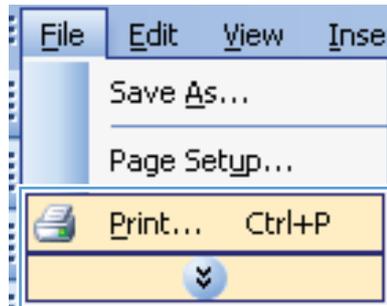


4. Select the **Print on both sides** check box. Click the **OK** button to print the job.

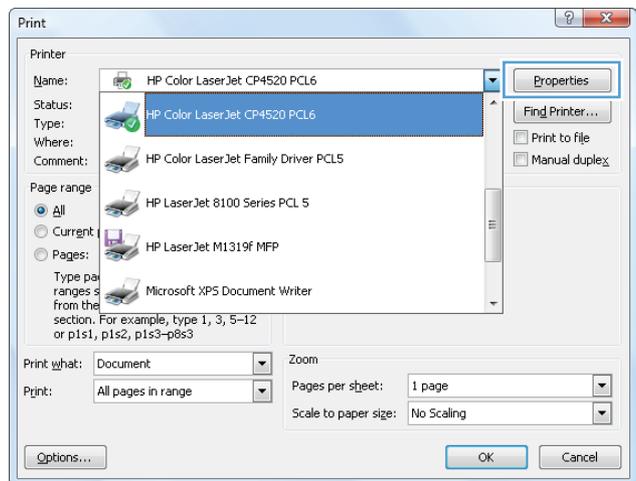


Print multiple pages per sheet with Windows

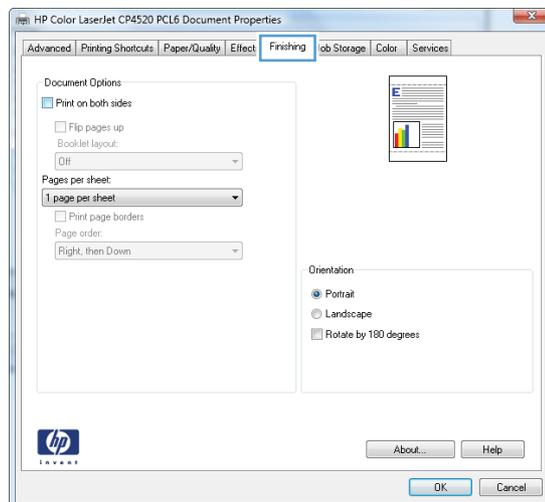
1. On the **File** menu in the software program, click **Print**.



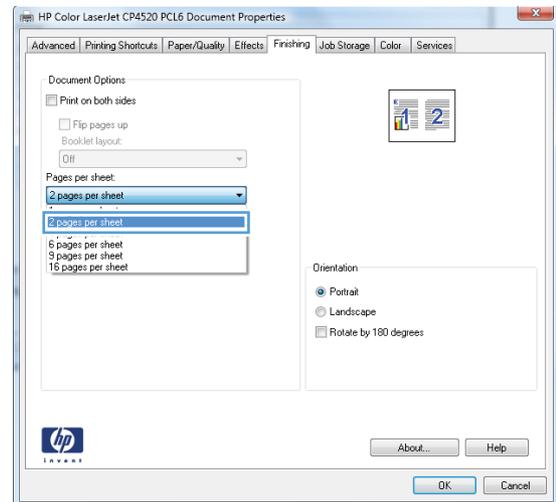
2. Select the product, and then click the **Properties** or **Preferences** button.



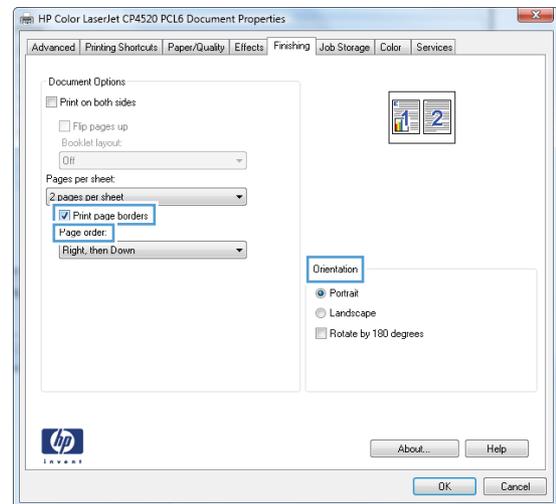
3. Click the **Finishing** tab.



4. Select the number of pages per sheet from the **Pages per sheet** drop-down list.

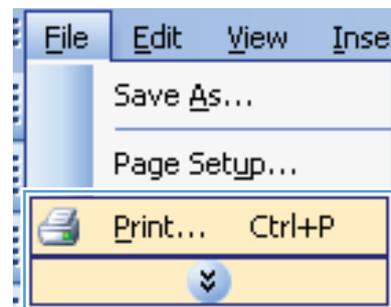


5. Select the correct **Print page borders**, **Page order**, and **Orientation** options.

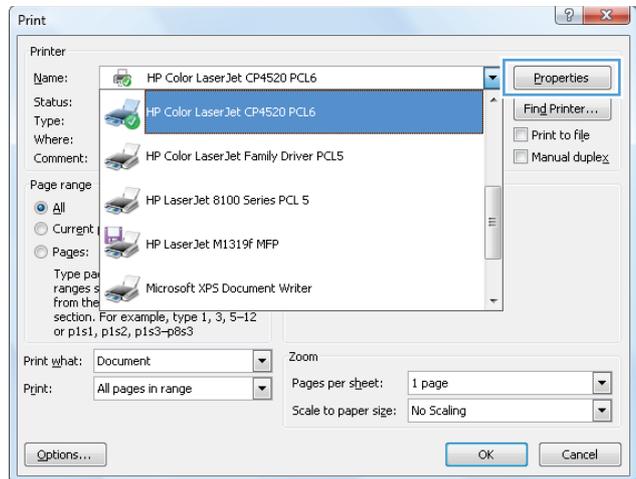


Select page orientation with Windows

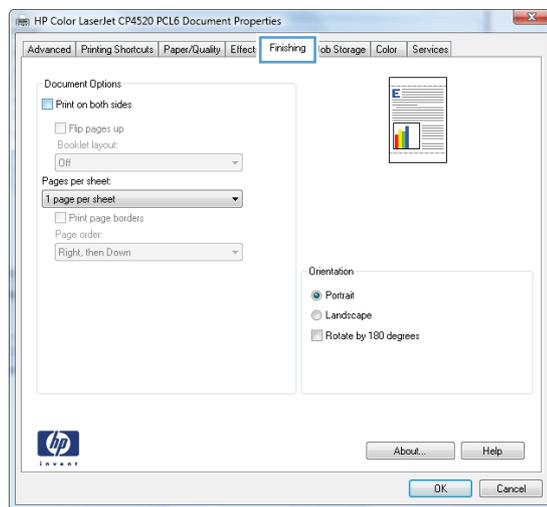
1. On the **File** menu in the software program, click **Print**.



2. Select the product, and then click the **Properties** or **Preferences** button.

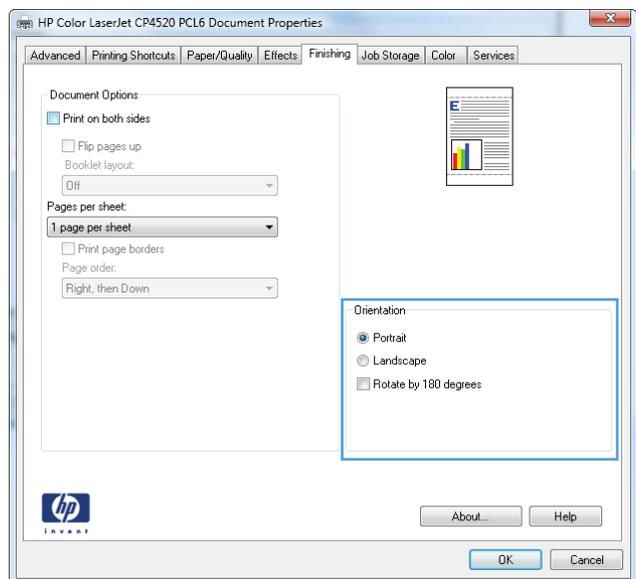


3. Click the **Finishing** tab.



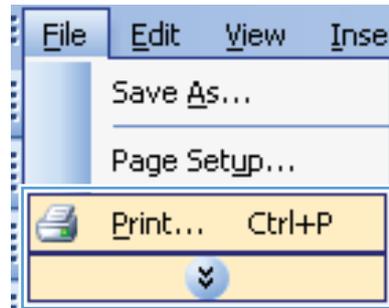
4. In the **Orientation** area, select the **Portrait** or **Landscape** option.

To print the page image upside down, select the **Rotate by 180 degrees** option.

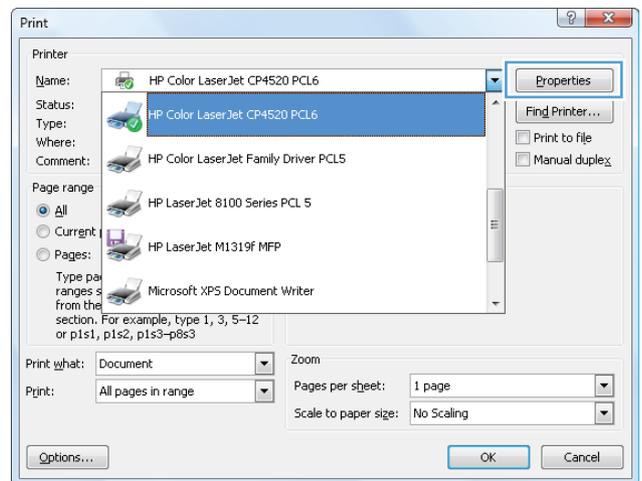


Set color options with Windows

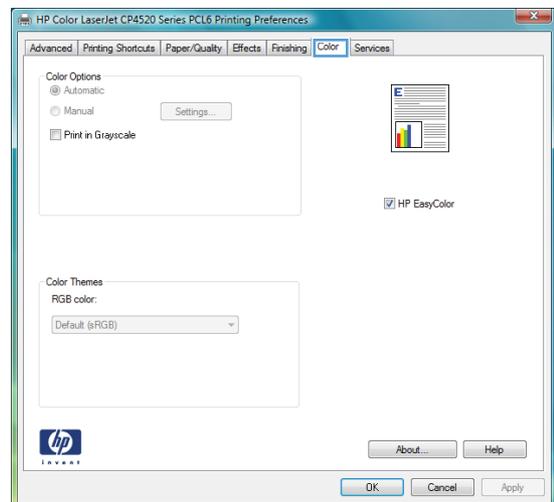
1. On the **File** menu in the software program, click **Print**.



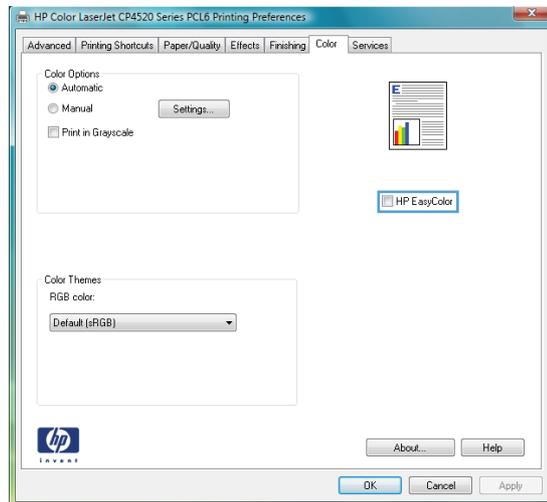
2. Select the product, and then click the **Properties** or **Preferences** button.



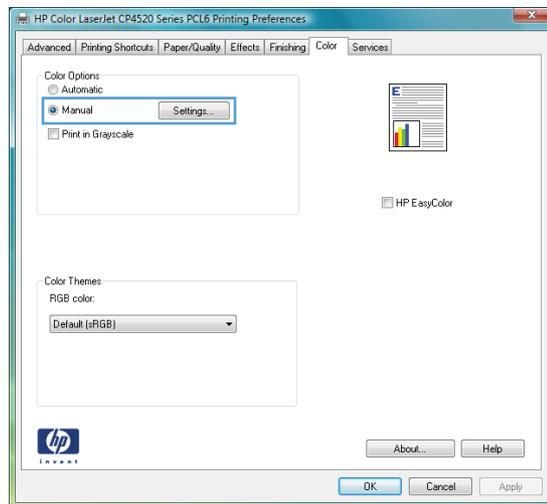
3. Click the **Color** tab.



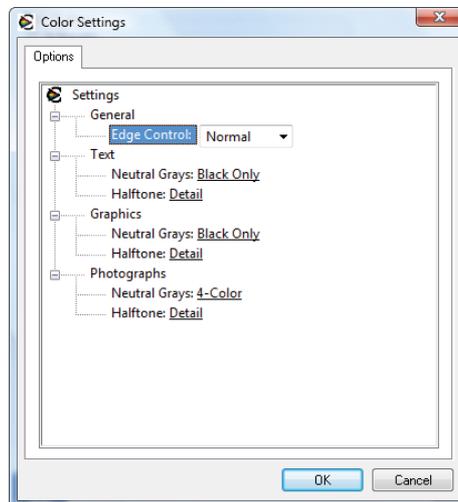
4. Click the **HP EasyColor** check box to clear it.



5. In the **Color Options** area, click the **Manual** option, and then click the **Settings** button.



6. Adjust the general settings for Edge Control, and settings for text, graphics, and photographs.



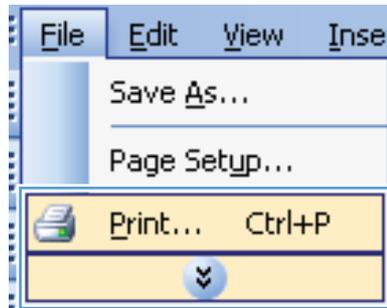
Additional print tasks with Windows

Print colored text as black (grayscale) with Windows

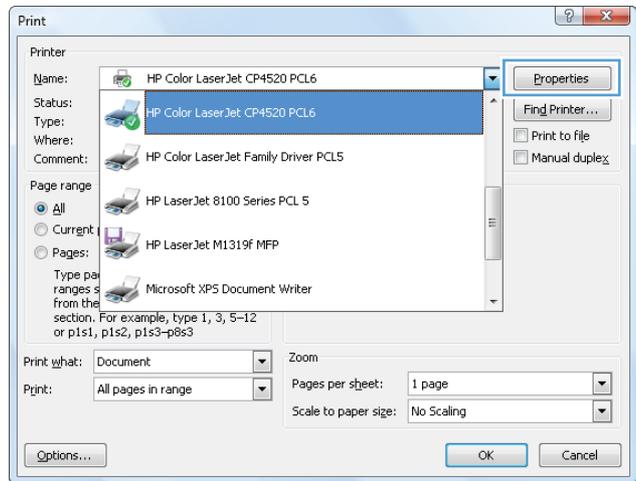
1. On the **File** menu in the software program, click **Print**.
2. Select the product, and then click the **Properties** or **Preferences** button.
3. Click the **Advanced** tab.
4. Expand the **Document Options** section.
5. Expand the **Printer Features** section.
6. In the **Print All Text as Black** drop-down list, select the **Enabled** option.

Print on preprinted letterhead or forms with Windows

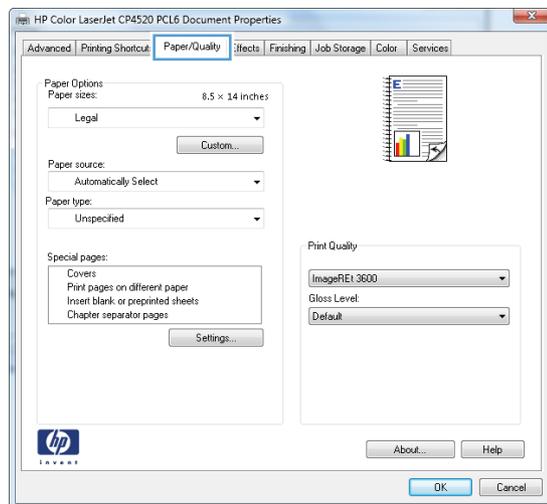
1. On the **File** menu in the software program, click **Print**.



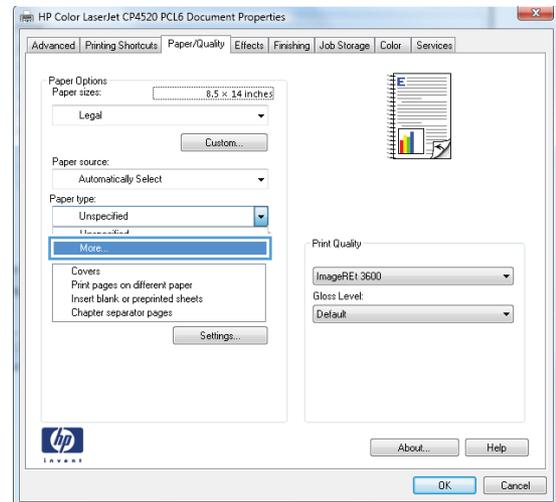
2. Select the product, and then click the **Properties** or **Preferences** button.



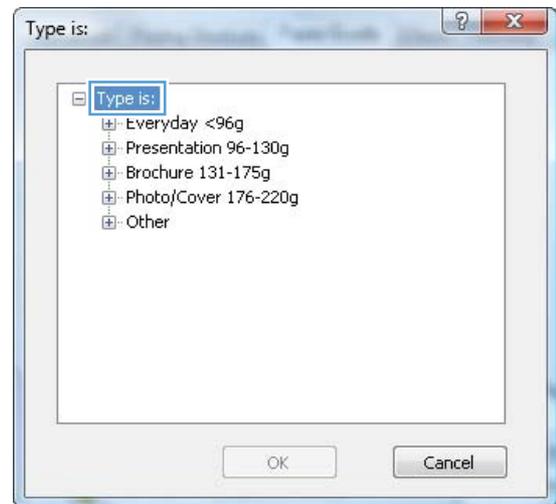
3. Click the **Paper/Quality** tab.



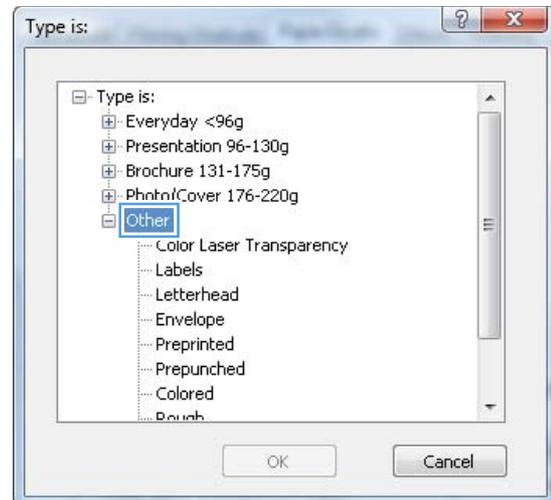
4. From the **Paper type** drop-down list, click the **More...** option.



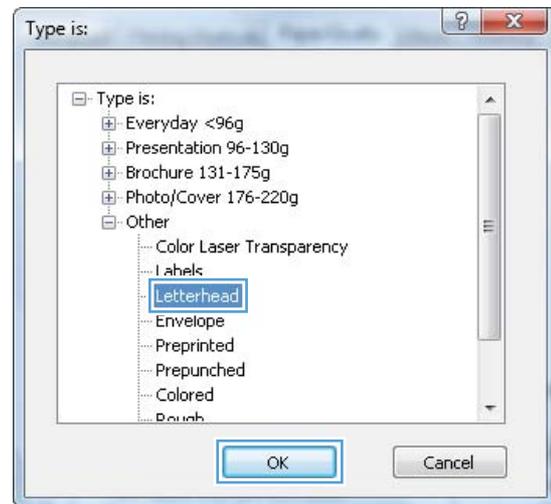
5. Expand the list of **Type is:** options.



- Expand the list of **Other** options.

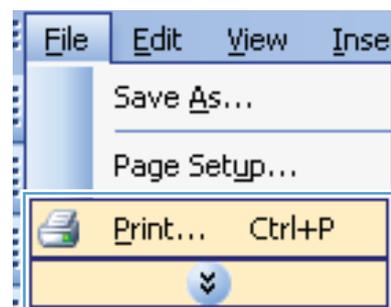


- Select the option for the type of paper you are using, and click the **OK** button.

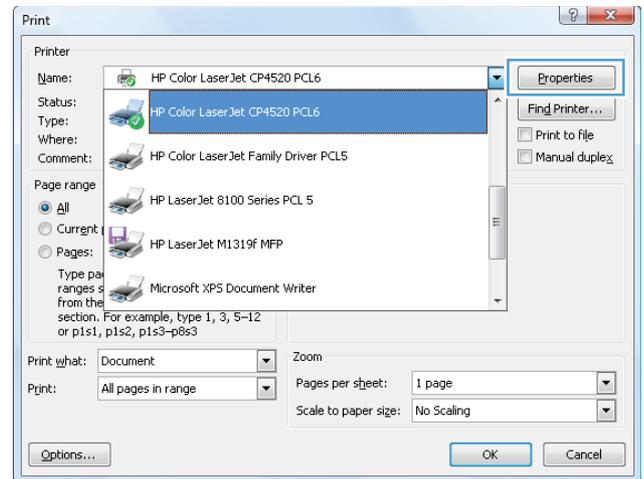


Print on special paper, labels, or transparencies

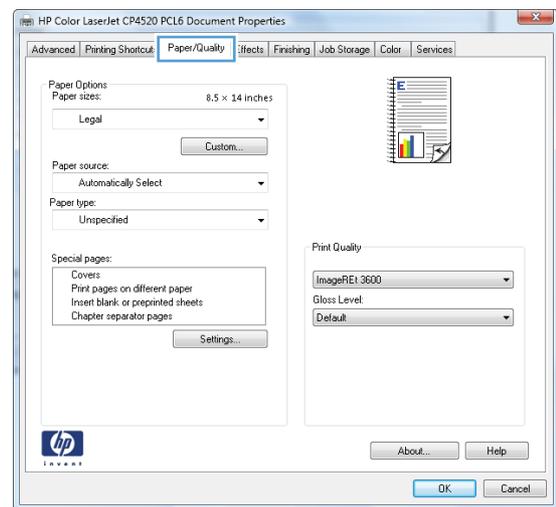
- On the **File** menu in the software program, click **Print**.



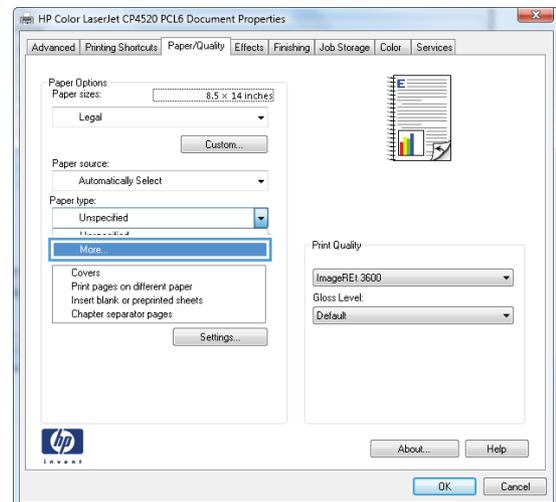
2. Select the product, and then click the **Properties** or **Preferences** button.



3. Click the **Paper/Quality** tab.



4. From the **Paper type** drop-down list, click the **More...** option.

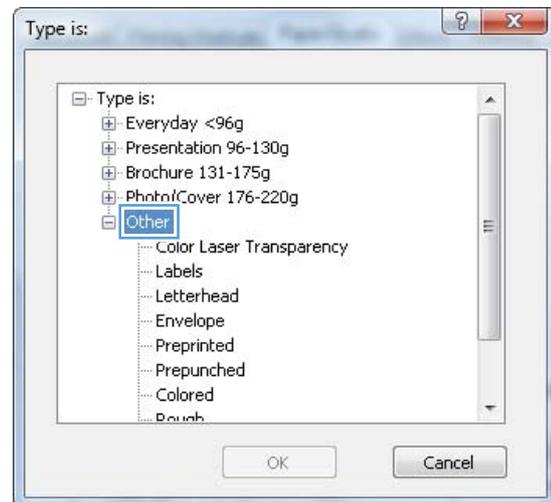


5. Expand the list of **Type is:** options.

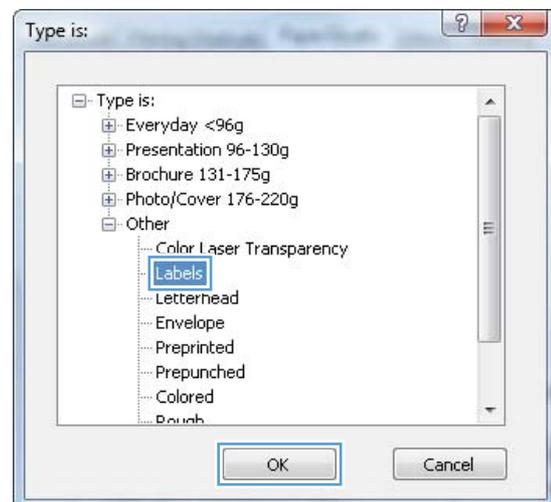


6. Expand the category of paper types that best describes your paper.

NOTE: Labels and transparencies are in the list of **Other** options.

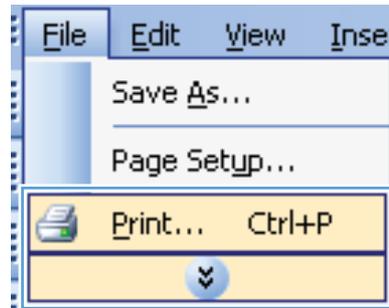


7. Select the option for the type of paper you are using, and click the **OK** button.

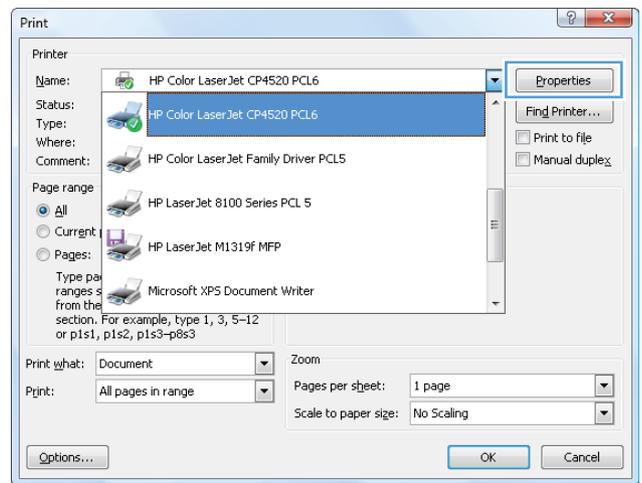


Print the first or last page on different paper with Windows

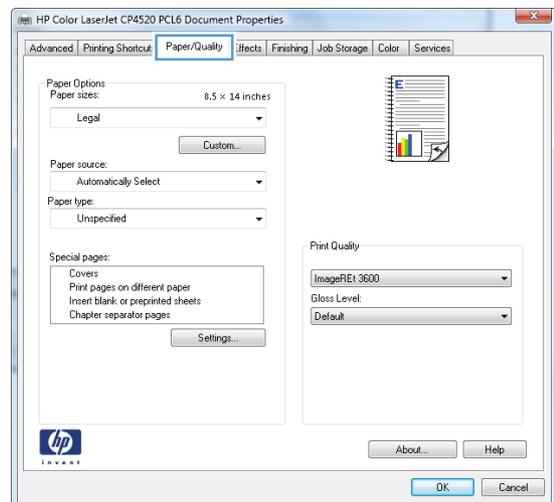
1. On the **File** menu in the software program, click **Print**.



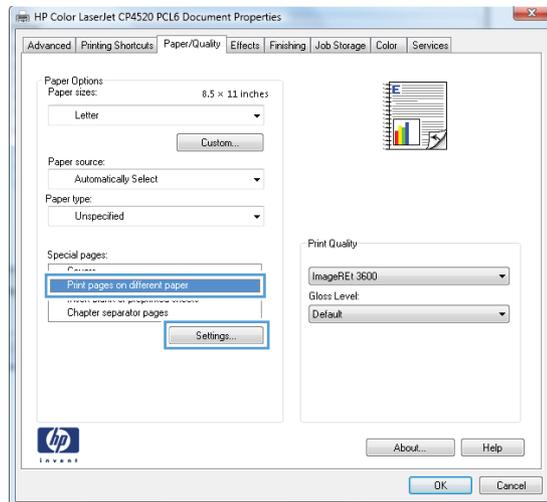
2. Select the product, and then click the **Properties** or **Preferences** button.



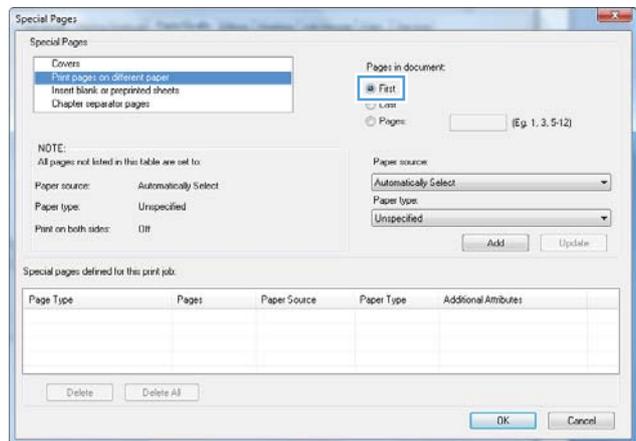
3. Click the **Paper/Quality** tab.



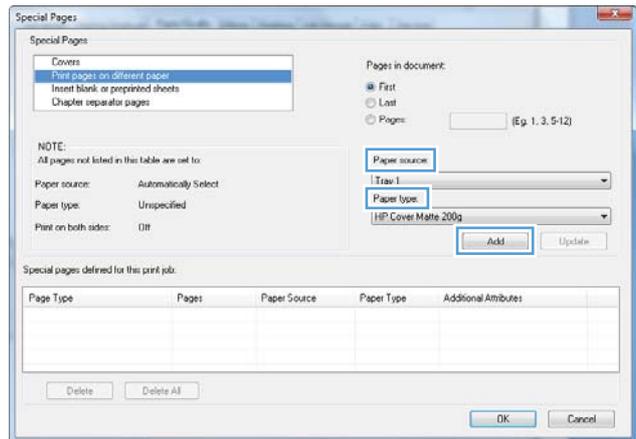
- In the **Special pages** area, click the **Print pages on different paper** option, and then click the **Settings** button.



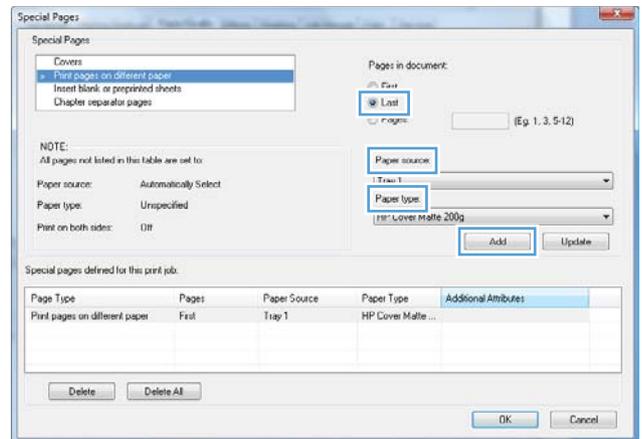
- In the **Pages in document** area, select either the **First** or **Last** option.



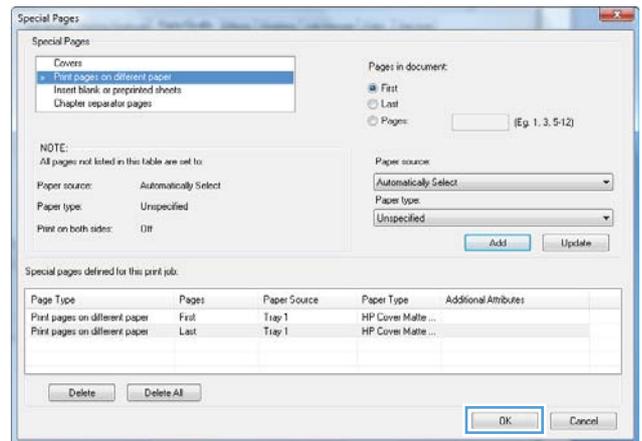
- Select the correct options from the **Paper source** and **Paper type** drop-down lists. Click the **Add** button.



- If you are printing *both* the first and last pages on different paper, repeat steps 5 and 6, selecting the options for the other page.

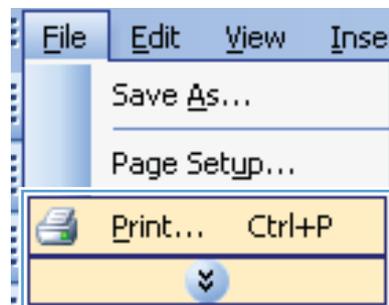


- Click the **OK** button.

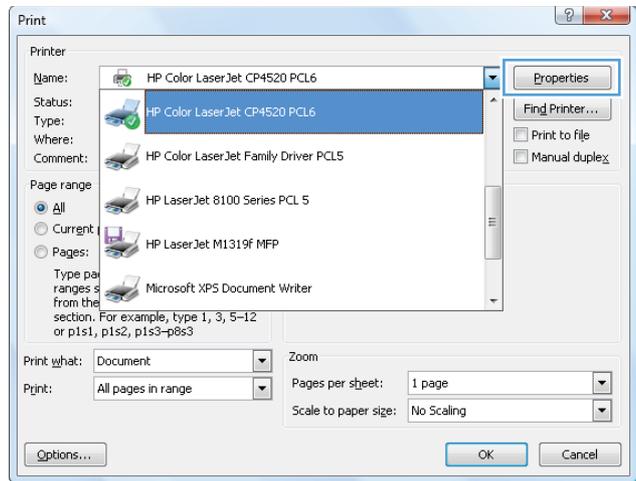


Scale a document to fit page size

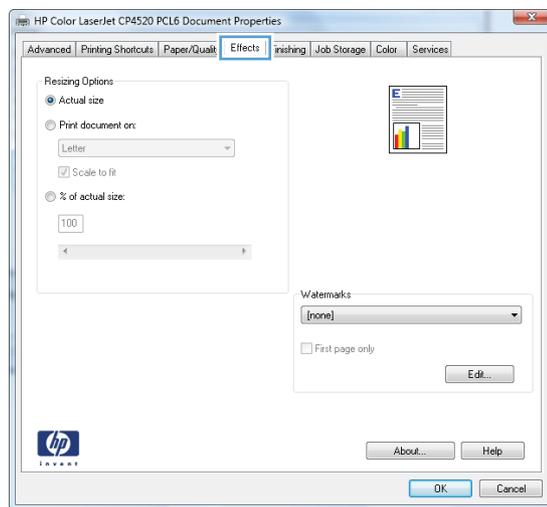
- On the **File** menu in the software program, click **Print**.



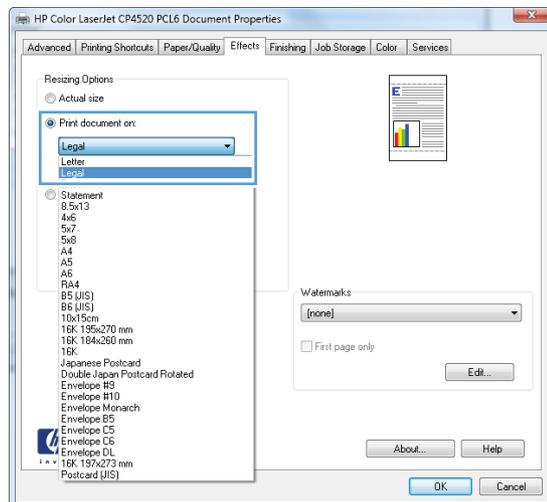
2. Select the product, and then click the **Properties** or **Preferences** button.



3. Click the **Effects** tab.



4. Select the **Print document on** option, and then select a size from the drop-down list.



Add a watermark to a document with Windows

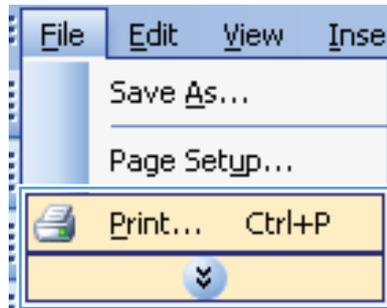
1. On the **File** menu in the software program, click **Print**.
2. Select the product, and then click the **Properties** or **Preferences** button.
3. Click the **Effects** tab.
4. Select a watermark from the **Watermarks** drop-down list.

Or, to add a new watermark to the list, click the **Edit** button. Specify the settings for the watermark, and then click the **OK** button.

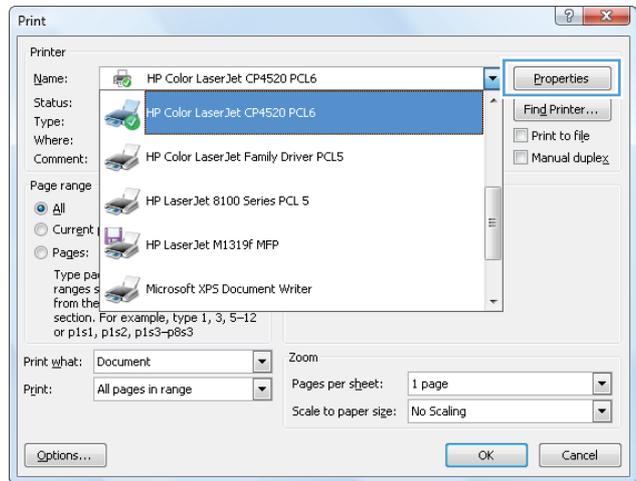
5. To print the watermark on the first page only, select the **First page only** check box. Otherwise, the watermark is printed on each page.

Create a booklet with Windows

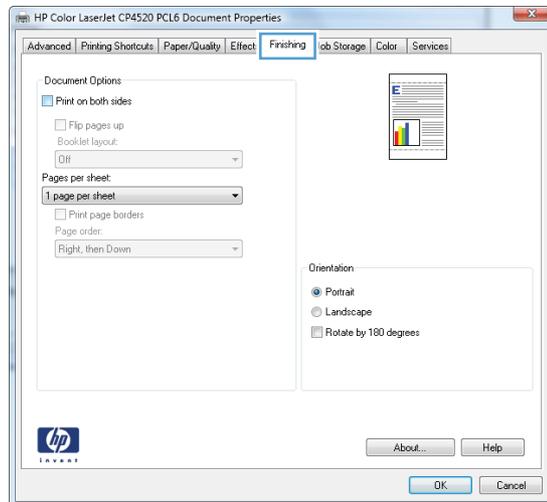
1. On the **File** menu in the software program, click **Print**.



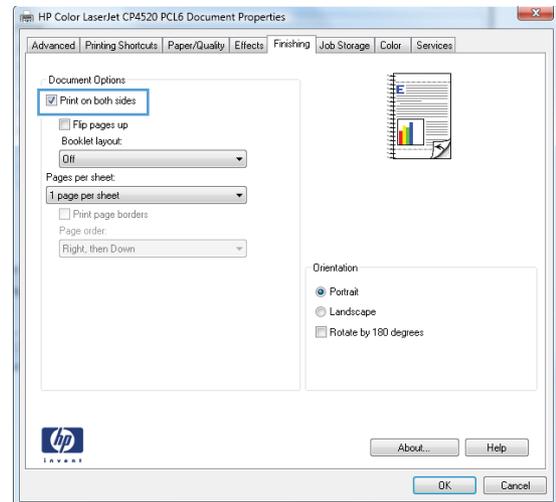
2. Select the product, and then click the **Properties** or **Preferences** button.



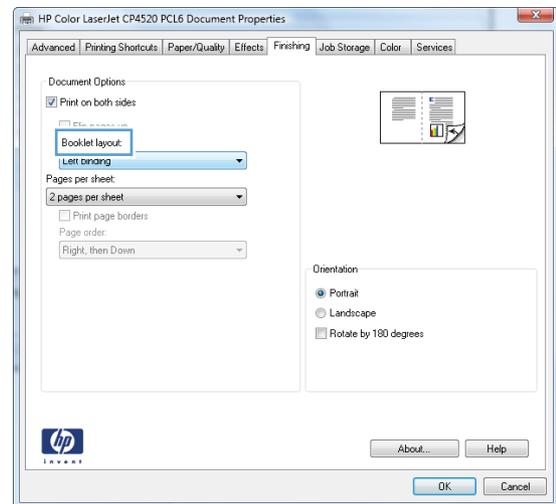
3. Click the **Finishing** tab.



4. Select the **Print on both sides** check box.



5. In the **Booklet layout** drop-down list, click the **Left binding** or **Right binding** option. The **Pages per sheet** option automatically changes to **2 pages per sheet**.



Use job storage features with Windows

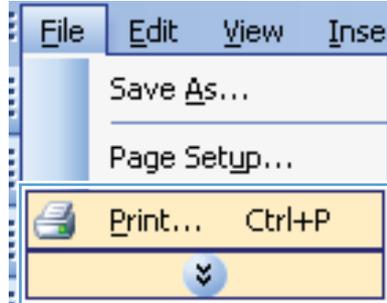
The following job-storage modes are available for print jobs:

- **Proof and Hold:** This feature provides a quick way to print and proof one copy of a job and then print more copies.
- **Personal Job:** When you send a job to the product, the job does not print until you request it at the product control panel. If you assign a personal identification number (PIN) to the job, you must provide the required PIN at the control panel.
- **Quick Copy:** If the optional hard disk is installed on the product, you can print the requested number of copies of a job and then store a copy of the job on the optional hard disk. Storing the job allows you to print additional copies of the job later.
- **Stored Job:** If the optional hard disk is installed on the product, you can store a job such as a personnel form, time sheet, or calendar on the product and allow other users to print the job at any time. Stored jobs also can be protected by a PIN.

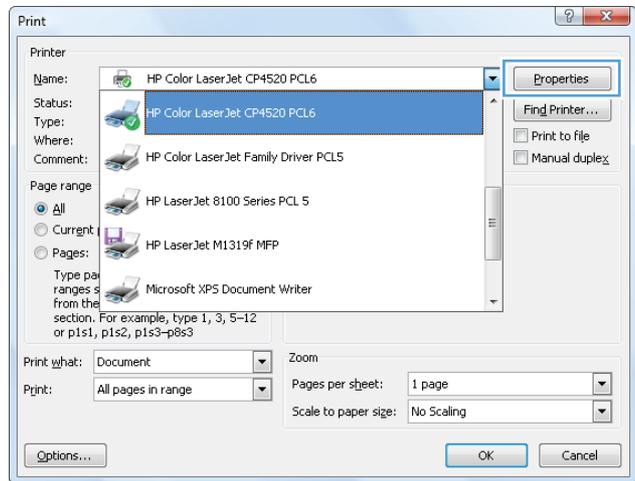
△ **CAUTION:** If you turn off the product, all **Quick Copy, Proof and Hold**, and **Personal Job** types of stored jobs are deleted. To permanently store the job and prevent the product from deleting it when space is needed for something else, select the **Stored Job** option in the driver.

Create a stored job with Windows

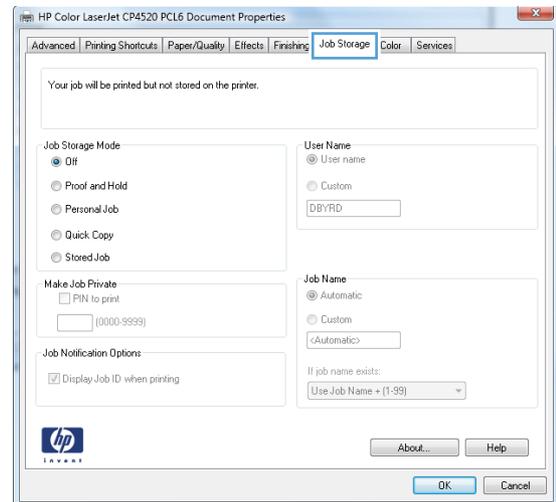
1. On the **File** menu in the software program, click **Print**.



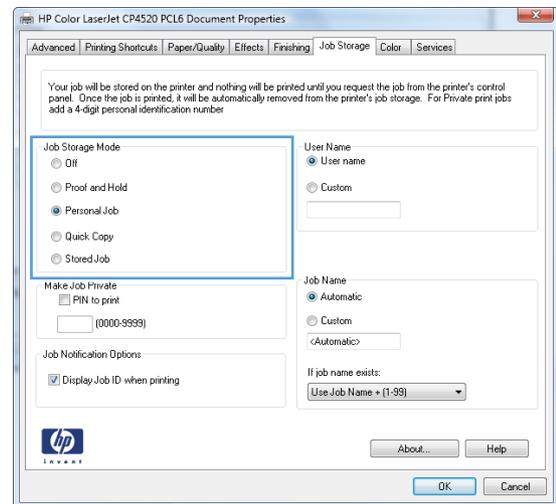
2. Select the product, and then click the **Properties** or **Preferences** button.



3. Click the **Job Storage** tab.

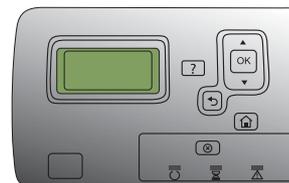


4. Select a **Job Storage Mode** option, and then click the **OK** button.



Print a stored job

1. Press the Home button .



2. Press the down arrow ▼ to highlight the **Retrieve Job From Device Memory** menu, and then press the **OK** button.
3. Press the down arrow ▼ to highlight your user name, and then press the **OK** button.

4. Press the down arrow ▼ to highlight a job name, and then press the **OK** button.

The **Print** or **Delete** option is highlighted.

NOTE: If you have stored more than one job on the product, you have the option to print or delete all of them at the same time.

5. Press the **OK** button to select the **Print** or **Delete** option.

Delete a stored job

When you send a stored job, the product overwrites any previous jobs with the same user and job name. If a job is not already stored under the same user and job name, and the product needs additional space, the product might delete other stored jobs starting with the oldest. You can change the number of jobs that can be stored from the **Retrieve Job From Device Memory** menu on the product control panel.

You can delete a job from the control panel, from the HP Embedded Web Server, or from HP Web Jetadmin. To delete a job from the control panel, use the following procedure:

1. Press the Home button .
2. Press the down arrow ▼ to highlight the **Retrieve Job From Device Memory** menu, and then press the **OK** button.
3. Press the down arrow ▼ to highlight a job name, and then press the **OK** button.
4. Press the down arrow ▼ to highlight the **Delete** option, and then press the **OK** button.

Set job storage options with Windows

Print one copy for proof before printing all the copies

1. On the **File** menu in the software program, click **Print**.
2. Select the product, and then click the **Properties** or **Preferences** button.
3. Click the **Job Storage** tab.
4. In the **Job Storage Mode** area, click the **Proof and Hold** option.

Temporarily store a personal job on the product and print it later

 **NOTE:** The product deletes the job after you print it.

1. On the **File** menu in the software program, click **Print**.
2. Select the product, and then click the **Properties** or **Preferences** button.
3. Click the **Job Storage** tab.
4. In the **Job Storage Mode** area, click the **Personal Job** option.

5. Optional: In the **Make Job Private** area, click the **PIN to print** option, and enter a 4-digit personal identification number (PIN).
6. Print the job at any time from the product control panel.

Temporarily store a job on the product

 **NOTE:** This option is available if the optional hard disk is installed in the product.

NOTE: The product stores the job until you turn the product off.

1. On the **File** menu in the software program, click **Print**.
2. Select the product, and then click the **Properties** or **Preferences** button.
3. Click the **Job Storage** tab.
4. In the **Job Storage Mode** area, click the **Quick Copy** option.

The requested number of copies are printed immediately, and you can print more copies from the product control panel.

Permanently store a job on the product

 **NOTE:** This option is available if the optional hard disk is installed in the product.

1. On the **File** menu in the software program, click **Print**.
2. Select the product, and then click the **Properties** or **Preferences** button.
3. Click the **Job Storage** tab.
4. In the **Job Storage Mode** area, click the **Stored Job** option.

Make a permanently stored job private so that anyone who tries to print it must provide a PIN

 **NOTE:** This option is available if the optional hard disk is installed in the product.

1. On the **File** menu in the software program, click **Print**.
2. Select the product, and then click the **Properties** or **Preferences** button.
3. Click the **Job Storage** tab.
4. In the **Job Storage Mode** area, click the **Stored Job** option or the **Personal Job** option.
5. In the **Make Job Private** area, click the **PIN to print** option, and enter a 4-digit personal identification number (PIN).

 **NOTE:** To print the job or to delete it, you must provide the PIN at the product control panel.

Receive notification when someone prints a stored job

 **NOTE:** Only the person who created the stored job receives notification. You do not receive notification when someone prints a stored job that another person has created.

1. On the **File** menu in the software program, click **Print**.
2. Select the product, and then click the **Properties** or **Preferences** button.
3. Click the **Job Storage** tab.
4. Select the job storage mode that you want.
5. In the **Job Notifications Options** area, click the **Display Job ID when printing** option.

Set the user name for a stored job

Follow this procedure to change the user name for a stored job.

1. On the **File** menu in the software program, click **Print**.
2. Select the product, and then click the **Properties** or **Preferences** button.
3. Click the **Job Storage** tab.
4. Select the job storage mode that you want.
5. In the **User Name** area, click the **User name** option to use the Windows default user name. To provide a different user name, click the **Custom** option and type the name.

Specify a name for the stored job

Follow this procedure to change the default name for a stored job.

1. On the **File** menu in the software program, click **Print**.
2. Select the product, and then click the **Properties** or **Preferences** button.
3. Click the **Job Storage** tab.
4. Select the job storage mode that you want.
5. To automatically generate the job name associated with the stored document, in the **Job Name** area, click the **Automatic** option. The driver uses the document file name, if it is available. If the document has no file name, the driver uses the software program name or a time stamp for the job name.

To specify a job name, click the **Custom** option and type the name.

6. Select an option from the **If job name exists** drop-down list.
 - Select the **Use Job Name + (1-99)** option to add a number to the end of the existing name.
 - Select the **Replace Existing File** option to overwrite a job that already has that name.

Print special jobs with Windows

Print business graphics or marketing material

You can use this product to print marketing and sales material or other color documents on glossy paper. To maximize the quality of this output you must do the following:

1. Choose the appropriate paper. See the following table.
2. At the product control panel, configure the paper tray for the correct paper type.
3. Select the corresponding settings in the printer driver.

Supported glossy paper

HP glossy paper product	Product code	Product size	Control panel and print driver settings
HP Laser Presentation Paper, Soft Gloss	Q6541A	Letter	HP soft gloss 120g
HP Laser Presentation Paper, Glossy	Q2546A	Letter	HP glossy 130g
HP Laser Presentation Paper, Glossy	Q2552A	A4	HP glossy 130g
HP Laser Professional Paper, Soft Gloss	Q6542A	A4	HP soft gloss 120g
HP Laser Brochure Paper, Glossy	Q6611A, Q6610A	Letter	HP glossy 160g
HP Laser Superior Paper, Glossy	Q6616A	A4	HP glossy 160g
HP Laser Photo Paper, Glossy	Q6607A, Q6608A	Letter	HP glossy 220g
HP Laser Photo Paper, Glossy	Q6614A	A4	HP glossy 220g
HP Laser Photo Paper, Glossy 4x6	Q8842A	101.6 x 152.4 mm (4 x 6 in)	HP glossy 220g
HP Laser Photo Paper, Glossy 10 x 15 cm	Q8843A	101.6 x 152.4 mm (4 x 6 in)	HP glossy 220g

 **NOTE:** In the United States, see www.hp.com/go/paper for a complete list of HP brand paper.

Print weatherproof maps and outdoor signs

The product can print durable, waterproof maps, signs, or menus by using HP Tough Paper. HP Tough Paper is a waterproof, tear-proof, satin finish paper that retains rich, vibrant print color and clarity even

when exposed to heavy usage or weather. This avoids expensive and time-consuming lamination. To maximize the quality of this output, you must do the following:

- Choose the appropriate paper. See the following table.
- At the product control panel, configure the paper tray for the correct paper type.
- Select the corresponding settings in the printer driver.

Supported tough paper

HP paper name	Product code	Product size	Control panel and print driver settings
HP LaserJet Tough Paper	Q1298A	Letter	HP Tough Paper
HP LaserJet Tough Paper	Q1298B	A4	HP Tough Paper

Set the duplex alignment

For documents that are printed on both sides, such as brochures, set the registration for the tray before printing to ensure that the front and back of the page are aligned.

1. Press the Home button .
2. Press the down arrow ▼ to highlight the **Administration** menu, and then press the **OK** button.
3. Press the down arrow ▼ to highlight the **General Settings** menu, and then press the **OK** button.
4. Press the down arrow ▼ to highlight the **Print Quality** menu, and then press the **OK** button.
5. Press the down arrow ▼ to highlight the **Image Registration** menu, and then press the **OK** button.
6. Press the down arrow ▼ to highlight the **Adjust Tray <X>** menu for the tray that you want to adjust, and then press the **OK** button.
7. Press the down arrow ▼ to highlight the **Print Test Page** setting, and then press the **OK** button.
8. Follow the instructions on the test page to complete the adjustment.

Walk-up USB printing

This product features walk-up USB printing, so you can quickly print files without sending them from a computer. The product accepts standard USB storage accessories in the USB port on the front of the product. You can print the following types of files:

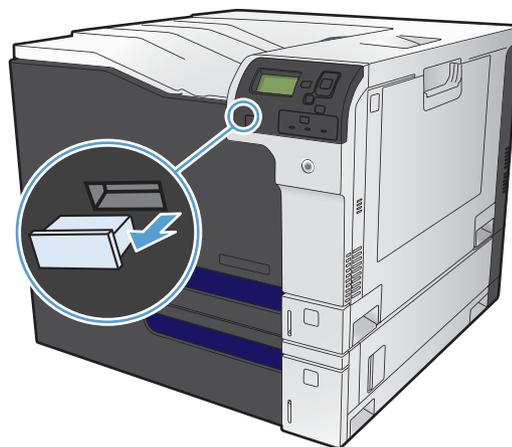
 **NOTE:** You must enable this feature by using the control-panel menus or the HP Embedded Web Server before it can be used.

To enable this feature by using the control-panel menus, access the **Administration** menu, **Retrieve From USB Settings** sub menu, and then select **Enable**. To enable this feature by using the HP Embedded Web Server, access the **Print** tab.

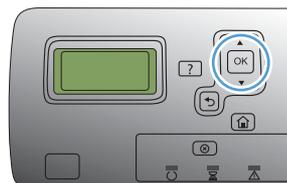
- .pdf
- .prn
- .pcl
- .ps
- .cht

1. Insert the USB storage accessory into the USB port on the front of the product.

NOTE: You might need to remove the cover from the USB port



2. Press the down arrow ▼ to highlight **OK**, and then press the **OK** button.
3. Press the down arrow ▼ to highlight **Select a File or Folder**, and then press the **OK** button.
4. Press the down arrow ▼ to select a folder from the list.
5. Select the name of the document that you want to print.
6. Press the **OK** button to print the document.



9 Color

- [Adjust color](#)
- [Match colors](#)
- [Advanced color use](#)

Adjust color

Manage color by changing the settings on the **Color** tab (Windows) or the **Color Options** or **Color/Quality Options** menu (Mac) in the printer driver.

Automatic

Setting color options to the default or **Automatic** setting typically produces the best possible print quality for color documents. The default or **Automatic** color adjustment option optimizes the neutral-gray color treatment, halftones, and edge enhancements for each element in a document. For more information, see the printer driver online Help.

Print in Grayscale

Select the **Print in Grayscale** option (Windows) or the **Print Color as Gray** option (Mac) from the printer driver to print a color document in black and white. This option is useful for printing color documents that will be photocopied or faxed. The product uses the monochrome mode, which reduces use of the color cartridges.

Manual color adjustment

Manually set the color options to adjust the neutral-gray color treatment, halftones, and edge enhancements for text, graphics, and photographs. To open the manual color adjustment options, follow one of these procedures:

- **Windows:** From the **Color** tab, click the **HP EasyColor** check box to clear it, click the **Manual** button, and then click the **Settings** button.
- **Mac:** Open the **Advanced** menu, or select the appropriate tab with the **Color/Quality Options** tab. Click the **HP EasyColor** check box to clear it, and then enable the manual settings.

Manual color options

Use manual color options to adjust the **Neutral Grays**, **Halftone**, and **Edge Control** options for text, graphics, and photographs.

Table 9-1 Manual color options

Setting description	Setting options
Halftone Halftone options affect the color output resolution and clarity.	<ul style="list-style-type: none">• Smooth provides better results for large, solid-filled print areas and enhances photographs by smoothing color gradations. Select this option when uniform and smooth area fills are the top priority.• Detail is useful for text and graphics that require sharp distinctions among lines or colors, or images that contain a pattern or a high level of detail. Select this option when sharp edges and details are the top priority.
Neutral Grays The Neutral Grays setting determines the method for creating gray colors used in text, graphics, and photographs.	<ul style="list-style-type: none">• Black Only generates neutral colors (grays and black) by using only black toner. This guarantees neutral colors without a color cast. This setting is best for documents and grayscale viewgraphs.• 4-Color generates neutral colors (grays and black) by combining all four toner colors. This method produces smoother gradients and transitions to other colors, and it produces the darkest black.
Edge Control The Edge Control setting determines how edges are rendered. Edge control has two components: adaptive halftoning and trapping. Adaptive halftoning increases edge sharpness. Trapping reduces the effect of color-plane misregistration by overlapping the edges of adjacent objects slightly.	<ul style="list-style-type: none">• Maximum is the most aggressive trapping setting. Adaptive halftoning is on.• Normal sets trapping at a medium level. Adaptive halftoning is on.• Light sets trapping at a minimal level. Adaptive halftoning is on.• Off turns off both trapping and adaptive halftoning.

Use the HP EasyColor option

If you are using the HP PCL 6 printer driver for Windows, the **HP EasyColor** technology automatically improves mixed-content documents that are printed from Microsoft Office programs. This technology scans documents and automatically adjusts photographic images in .JPEG or .PNG format.

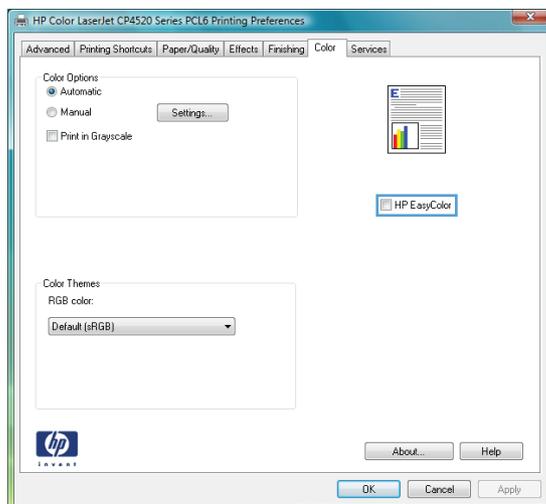
HP EasyColor technology enhances the entire image at one time, rather than dividing it into several pieces, which results in improved color consistency, sharper details, and faster printing.

If you are using the HP Postscript printer driver for Mac, **HP EasyColor** technology scans all documents and automatically adjusts all photographic images with the same improved photographic results.

In the following example, the images on the left were created without using the **HP EasyColor** option. The images on the right show the enhancements that result from using the **HP EasyColor** option.



The **HP EasyColor** option is enabled by default in both the HP PCL 6 printer driver and the HP Mac Postscript printer driver, so you do not need to make manual color adjustments. To disable the option so you can manually adjust the color settings, open the **Color** tab in the Windows driver or the **Color/Quality Options** tab in the Mac driver, and then click the **HP EasyColor** check box to clear it.



Match colors

The process of matching product output color to your computer screen is quite complex, because printers and computer monitors use different methods of producing color. Monitors *display* colors by light pixels using an RGB (red, green, blue) color process, but printers *print* colors using a CMYK (cyan, magenta, yellow, and black) process.

Several factors can influence your ability to match printed colors to those on your monitor. These factors include:

- Paper
- Printer colorants (inks or toners for example)
- Printing process (inkjet, press, or laser technology for example)
- Overhead lighting
- Personal differences in perception of color
- Software programs
- Printer drivers
- Computer operating system
- Monitors and monitor settings
- Video cards and drivers
- Operating environment (humidity for example)

Keep the above factors in mind when colors on your screen do not perfectly match your printed colors.

For most users, the best method for matching colors on your screen to your product is to print sRGB colors.

Sample book color matching

The process for matching product output to preprinted sample books and standard color references is complex. In general, you can obtain a reasonably good match to a sample book if the inks used to create the sample book are cyan, magenta, yellow, and black. These are usually referred to as process color sample books.

Some sample books are created from spot colors. Spot colors are specially created colorants. Many of these spot colors are outside of the range of the product. Most spot color sample books have companion process sample books that provide CMYK approximations to the spot color.

Most process sample books will state which process standards were used to print the sample book. In most cases they will be SWOP, EURO, or DIC. To get optimal color matching to the process sample book, select the corresponding ink emulation from the product menu. If you cannot identify the process standard, use SWOP ink emulation.

Print color samples

To use the color samples, select the color sample that is the closest match to the desired color. Use the sample's color value in your software program to describe the object you wish to match. Colors might vary depending on paper type and the software program used. For more details on how to use the color samples, go to www.hp.com/support/cljcp5525.

Use the following procedure to print color samples at the product using the control panel:

1. Press the Home button .
2. Press the down arrow ▼ to highlight the **Administration** menu, and press the **OK** button.
3. Press the down arrow ▼ to highlight the **Reports** menu, and press the **OK** button.
4. Press the down arrow ▼ to highlight the **Other Pages** menu, and press the **OK** button.
5. Press the down arrow ▼ to highlight either the **RGB Samples** or the **Print CMYK Values** option, and press the **OK** button.

PANTONE® color matching

PANTONE has multiple color matching systems. PANTONE MATCHING SYSTEM® is very popular and uses solid inks to generate a wide range of color hues and tints. See www.hp.com/support/cljcp5525 for details on how to use PANTONE Colors with this product.

 **NOTE:** PANTONE Colors generated might not match PANTONE-identified standards. Consult current PANTONE Publications for accurate color.

Advanced color use

The product provides automatic color features that generate excellent color results. Carefully designed and tested color tables provide smooth, accurate color rendition of all printable colors.

The product also provides sophisticated tools for the experienced professional.

HP ColorSphere toner

HP designs the print system (printer, print cartridges, toner, and paper) to work together to optimize print quality, product reliability, and user productivity. Original HP print cartridges contain HP ColorSphere toner that is specifically matched to your printer so that it will produce a wide range of brilliant colors. This helps you create professional looking documents that contain sharp, clear text and graphics and realistic printed photos.

HP ColorSphere toner produces print-quality consistency and intensity you can depend on across a wide range of papers. You can produce documents that help you make the right impression. Plus, HP professional-quality everyday and specialty papers (including a wide variety of HP media types and weights) are designed for the way you work.

HP ImageREt 3600

HP ImageREt 3600 print technology is a system of innovative technologies developed exclusively by HP to deliver superior print quality. The HP ImageREt system sets itself apart from the industry by integrating technology advancements and optimizing each element of the print system. Several categories of HP ImageREt have been developed for a variety of user needs.

The system's foundation is composed of key color laser technologies, including image enhancements, smart supplies, and high-resolution imaging. As the level or category of ImageREt increases, these core technologies are refined for more advanced system usage, and additional technologies are integrated. HP offers superior image enhancements for general office documents and marketing collateral. Optimized for printing on HP color laser high-gloss papers, HP Image REt 3600 provides superior results on all supported media, and under a variety of environmental conditions.

Paper selection

For the best color and image quality, select the appropriate paper type from the control panel menu or from the printer driver.

Color options

Color options automatically provide optimal color output. These options use object tagging, which provides optimal color and halftone settings for different objects (text, graphics, and photos) on a page. The printer driver determines which objects appear on a page and uses halftone and color settings that provide the best print quality for each object.

In the Windows environment, the **Automatic** and **Manual** color options are on the **Color** tab in the printer driver.

Standard red-green-blue (sRGB)

Standard red-green-blue (sRGB) is a worldwide color standard that HP and Microsoft developed as a common color language for monitors, input devices (scanners and digital cameras), and output devices (printers and plotters). It is the default color space used for HP products, Microsoft operating systems, the World Wide Web, and most office software. The sRGB standard represents the typical Windows monitor and is the convergence standard for high-definition television.

 **NOTE:** Factors such as the type of monitor you use and the room lighting can affect the appearance of colors on your screen. For more information, see [Match colors on page 157](#).

The latest versions of Adobe PhotoShop®, CorelDRAW®, Microsoft Office, and many other programs use sRGB to communicate color. Because it is the default color space in Microsoft operating systems, sRGB has been adopted broadly. When programs and devices use sRGB to exchange color information, typical users experience greatly improved color matching.

The sRGB standard improves your ability to match colors between the product, the computer monitor, and other input devices automatically, and eliminates the need to become a color expert.

10 Manage and maintain

- [Print information pages](#)
- [Use the HP Embedded Web Server](#)
- [Use HP Web Jetadmin software](#)
- [Product security features](#)
- [Economy settings](#)
- [Install external I/O cards](#)
- [Clean the product](#)
- [Product updates](#)

Print information pages

Information pages provide details about the product and its current configuration. Use the following procedures to print commonly used information pages:

Print the menu map

The menu map report presents the entire structure of the **Administration** menu so you can identify how to navigate to any option.

1. At the control panel, press the Home button .
2. Open the following menus:
 1. **Administration**
 2. **Reports**
 3. **Configuration/Status Pages**
3. Use the down arrow button  to highlight the **Administration Menu Map** item, and then press the **OK** button to select it.
4. Use the up arrow button  to highlight the **Print** item, and then press the **OK** button.

Print the configuration report

The configuration report lists the current product settings and installed options. Use this report to find the product IP address or host name, the current firmware version, and information about network protocols.

1. At the control panel, press the Home button .
2. Open the following menus:
 1. **Administration**
 2. **Reports**
 3. **Configuration/Status Pages**
3. Use the down arrow button  to highlight the **Configuration Page** item, and then press the **OK** button to select it.
4. Use the up arrow button  to highlight the **Print** item, and then press the **OK** button. The report consists of several pages.



NOTE: The product IP address or host name is listed on the HP Jetdirect page.

Use the HP Embedded Web Server

Use the HP Embedded Web Server to view product status, configure product network settings, and to manage printing functions from your computer instead of from the product control panel. The following are examples of what you can do using the HP Embedded Web Server:

- View product status information.
- Determine the remaining life for all supplies and order new ones.
- View and change tray configurations.
- View and change the product control-panel menu configuration.
- View and print internal pages.
- Receive notification of product and supplies events.
- View and change network configuration.

To use the HP Embedded Web Server, you must have Microsoft Internet Explorer 5.01 or later or Netscape 6.2 or later for Windows, Mac OS, and Linux (Netscape only). Netscape Navigator 4.7 is required for HP-UX 10 and HP-UX 11. The HP Embedded Web Server works when the product is connected to an IP-based network. The HP Embedded Web Server does not support IPX-based product connections. You do not have to have Internet access to open and use the HP Embedded Web Server.

When the product is connected to the network, the HP Embedded Web Server is automatically available.

 **NOTE:** For complete information about using the HP Embedded Web Server, see the *HP Embedded Web Server User Guide*, which is on the HP website at www.hp.com/support/cljcp5525.

Open the HP Embedded Web Server by using a network connection

1. Identify the product IP address or host name.

Open the following menus:

1. **Administration**
 2. **Reports**
 3. **Configuration/Status Pages**
2. Use the down arrow button ▼ to highlight the **Configuration Page** item, and then press the **OK** button.
 3. Use the up arrow button ▲ to highlight the **Print** item, and then press the **OK** button.
 4. Locate the IP address or host name on the HP Jetdirect page.
 5. In a supported Web browser on your computer, type the product IP address or host name in the address/URL field.

Features

Information tab

Table 10-1 HP Embedded Web Server Information tab

Menu	Description
Device Status	Shows the product status and shows the estimated life remaining of HP supplies. The page also shows the type and size of paper set for each tray. To change the default settings, click the Change Settings link.
Configuration Page	Shows the information found on the configuration page.
Supplies Status Page	Shows a detailed status of the installed HP supplies.
Event Log Page	Shows a list of all product events and errors. Use the HP Instant Support link (in the Other Links area on all HP Embedded Web Server pages) to connect to a set of dynamic Web pages that help you solve problems. These pages also show additional services available for the product.
Usage Page	Shows a summary of the number of pages the product has printed, grouped by size, type, and paper print path.
Device Information	Shows the product network name, address, and model information. To customize these entries, click the Device Information menu on the General tab.
Print	Allows uploading a file from your hard disk or network file server to be printed. The following file types are supported: <ul style="list-style-type: none">• .txt• .ps• .pdf• .pcl• .cht• .prn
Print Reports and Pages	Lists the internal reports and pages for the product. Select one or more items to print or view.

General tab

Table 10-2 HP Embedded Web Server General tab

Menu	Description
Control Panel Administration Menu	Provides a remote view of the Administration menu available at the control panel of the product.
Alert Subscriptions	Set up e-mail alerts for various product and supplies events.
AutoSend	Configure the product to send automated e-mails regarding product configuration and supplies to specific e-mail addresses.
Control Panel Snapshot	Provides an inactive view of the control panel of the product.

Table 10-2 HP Embedded Web Server General tab (continued)

Menu	Description
Sleep Schedule	Set or edit a wake time, sleep time, and sleep delay for the product. You can set a different schedule for each day of the week and for holidays.
Edit Other Links	Add or customize a link to another website. This link appears in the Other Links area on all HP Embedded Web Server pages.
Device Information	Name the product and assign an asset number to it. Enter the name of the primary contact who will receive information about the product.
Language	Set the language in which to display the HP Embedded Web Server information.
Date and Time	Set the date and time or synchronize with a network time server.
Backup and Restore	Create a backup file that contains product and user data. If necessary, you can use this file to restore data to the product.
Solution Installer	Install third-party software programs that can enhance the product functionality.
Firmware upgrade	Download and install product firmware upgrade files.

Print tab

Use the **Print** tab to enable or disable walk-up USB printing. Jobs printed from USB will use the default print settings. The following file types are supported for walk-up USB printing:

- .pdf
- .prn
- .pcl
- .ps
- .cht

Table 10-3 HP Embedded Web Server Print tab

Menu	Description
Retrieve Job From USB	Use this item to enable or disable this feature.
Manage Stored Jobs	Use this feature to manage jobs stored on the product memory.
Restrict Color	Use this item to restrict the number of color pages that can be printed from this product.
General Print Settings	Use this item to manage the print settings for this product.

Troubleshooting tab

Table 10-4 HP Embedded Web Server Troubleshooting tab

Menu	Description
Reports and Tests	Print or view product settings, information pages, and diagnostic test pages.

Table 10-4 HP Embedded Web Server Troubleshooting tab (continued)

Menu	Description
Calibration/Cleaning	Provides remote control of the cleaning and calibration operations of the product.
Firmware upgrade	Download and install product firmware upgrade files.

Security tab

Table 10-5 HP Embedded Web Server Security tab

Menu	Description
General Security	Configure an administrator password so you can restrict access to certain features on the product. Enable or disable the Host USB port on the control panel or the USB connectivity port on the formatter for printing directly from a computer.
Access Control	Configure access to product functions for specific individuals or groups. Also select the method by which individuals sign in to the product.
Protect Stored Data	Configure and manage the internal hard drive for the product. This product includes an encrypted hard drive for maximum security. Configure settings for jobs that are stored on the product hard drive.
Certificate Management	Install and manage security certificates for access to the product and the network.

Networking tab

Use the **Networking** tab to change network settings for the product when it is connected to an IP-based network. This tab does not appear if the product is connected to other types of networks.

Other Links list

 **NOTE:** You can configure which items appear in the **Other Links** list by using the **Edit Other Links** menu on the **General** tab. The following items are the default links.

Table 10-6 HP Embedded Web Server Other Links list

Menu	Description
HP Instant Support	Connects you to the HP website to help you find solutions to product problems.
Shop for Supplies	Connects you to the HP website for ordering supplies.
Product Support	Connects to the support site for the product, from which you can search for help regarding various topics.
Show Me How	Connects you to the HP website for product support.

Use HP Web Jetadmin software

HP Web Jetadmin is a Web-based software solution for remotely installing, monitoring, and troubleshooting network-connected peripherals. Management is proactive, allowing network administrators the ability to resolve issues before users are affected. Download this free, enhanced-management software at www.hp.com/go/webjetadmin.

Device plug-ins can be installed into HP Web Jetadmin to provide support for specific product features. The HP Web Jetadmin software can automatically notify you when new plug-ins are available. On the **Product Update** page, follow the directions to automatically connect to the HP Web site and install the latest device plug-ins for your product.

 **NOTE:** Browsers must be Java™-enabled. Browsing from an Apple PC is not supported.

Product security features

Security statements

The product supports security standards and recommended protocols that help you keep the product secure, protect critical information on your network, and simplify the way you monitor and maintain the product.

For in-depth information about HP's secure imaging and printing solutions, visit www.hp.com/go/secureprinting. The site provides links to white papers and FAQ documents about security features.

IP Security

IP Security (IPsec) is a set of protocols that control IP-based network traffic to and from the product. IPsec provides host-to-host authentication, data integrity, and encryption of network communications.

For products that are connected to the network and have an HP Jetdirect print server, you can configure IPsec by using the **Networking** tab in the HP Embedded Web Server.

Secure the HP Embedded Web Server

Assign an administrator password for access to the product and the HP Embedded Web Server so that unauthorized users cannot change the product settings.

1. Open the HP Embedded Web Server by entering the product IP address into the address line of a Web browser.
2. Click the **Security** tab.
3. Open the **General Security** menu.
4. In the **Username** field, type the name to associate with the password.
5. Type the password in the **New Password** box, and then type it again in the **Verify password** box.

 **NOTE:** If you are changing an existing password, you must first type the existing password in the **Old Password** field.

6. Click the **Apply** button. Make note of the password and store it in a safe place.

Encryption support: HP Encrypted High Performance Hard Disks

This product includes an encrypted hard disk (standard for the HP Color LaserJet CP5525xh; optional on other models). This hard disk provides hardware-based encryption so you can securely store sensitive print, copy, and scan data without impacting product performance. This hard disk uses the latest Advanced Encryption Standard (AES) and has versatile time-saving features and robust functionality.

Use the **Security** menu in the HP Embedded Web Server to configure the disk.

For more information about the encrypted hard disk, see the *HP High-Performance Secure Hard Disk Setup Guide*.

1. Go to www.hp.com/support.
2. Type **Secure Hard Disk** into the search box and click the >> button.
3. Click the **HP Secure High Performance Hard Disk Drive** link.
4. Click the **Manuals** link.

Secure stored jobs

You can protect jobs that are stored on the product by assigning a PIN to them. Anyone who tries to print these protected jobs must first enter the PIN at the product control panel.

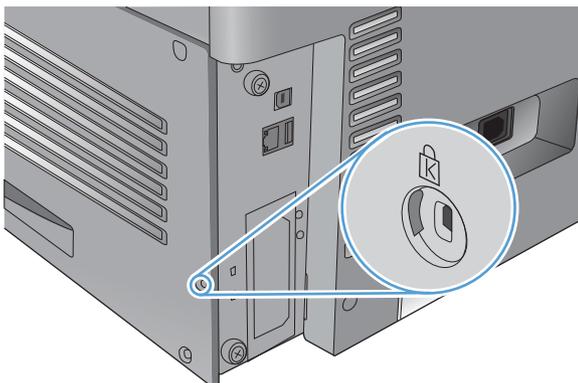
Lock the control panel menus

You can lock various features on the control panel by using the HP Embedded Web Server.

1. Open the HP Embedded Web Server by entering the product IP address into the address line of a Web browser.
2. Click the the **Security** tab.
3. Open the **Access Control** menu.
4. In the **Sign In and Permission Policies** area, select which types of users have permission for each of the features.
5. Click the **Apply** button.

Lock the formatter

The formatter area, on the back of the product, has a slot that you can use to attach a security cable. Locking the formatter prevents someone from removing valuable components from it.



Economy settings

Optimize speed or energy usage

The optimum speed or energy usage feature controls the fuser cool down behavior. The following settings are available:

Faster First Page	The fuser maintains power and the first page processes faster for any new job that is sent to the product.
Save Energy	The fuser reduces power when it is idle.
Save More Energy	The fuser reduces power when it is idle. The fuser reduces more power than the Save Energy setting.
Save Most Energy	The fuser is turned-off and it gradually cools to room temperature. The Save Most Energy setting takes the longest time to print the first page.

Complete the following steps to optimize the product for speed or energy usage:

1. Press the Home button .
2. Press the down arrow ▼ to highlight the **Administration** menu, and then press the **OK** button.
3. Press the down arrow ▼ to highlight the **General Settings** menu, and then press the **OK** button.
4. Press the down arrow ▼ to highlight the **Energy Settings** menu, and then press the **OK** button.
5. Press the down arrow ▼ to highlight the **Optimum Speed/Energy Usage** menu, and then press the **OK** button.
6. Select the appropriate option, and then press the **OK** button.

Power-saving modes

The adjustable sleep mode feature reduces power consumption when the product has been inactive for an extended period. You can set the length of time before the product enters sleep mode.

 **NOTE:** This mode does not affect product warm-up time.

Set sleep mode

1. Press the Home button .
2. Press the down arrow ▼ to highlight the **Administration** menu, and then press the **OK** button.
3. Press the down arrow ▼ to highlight the **Display Settings** menu, and then press the **OK** button.
4. Press the down arrow ▼ to highlight the **Sleep Mode** menu, and then press the **OK** button.
5. Press the down arrow ▼ to highlight the appropriate setting, and then press the **OK** button.

Set sleep delay

1. Press the Home button .
2. Press the down arrow ▼ to highlight the **Administration** menu, and then press the OK button.
3. Press the down arrow ▼ to highlight the **General Settings** menu, and then press the OK button.
4. Press the down arrow ▼ to highlight the **Energy Settings** menu, and then press the OK button.
5. Press the down arrow ▼ to highlight the **Sleep Delay** menu, and then press the OK button.
6. Press the up or down arrow ▲/▼ to select the appropriate time period, and then press the OK button.

Wake time

The wake time feature allows you to instruct the product to wake at a certain time on selected days, to eliminate waiting for the warm-up and calibration periods. You must have the **Sleep Mode** setting on to set the wake time.

 **NOTE:** Make sure that the real-time clock is set to the correct date and time before you set the wake time.

Set the real-time clock

Use the real-time clock feature to set the date and time settings. The date and time information is attached to stored print jobs, so you can identify the most recent versions.

Open the Date/Time Settings menu	<ol style="list-style-type: none">1. Press the Home button .2. Press the down arrow ▼ to highlight the Administration menu, and then press the OK button.3. Press the down arrow ▼ to highlight the General Settings menu, and then press the OK button.4. Press the down arrow ▼ to highlight the Date/Time Settings menu, and then press the OK button.
Set the date	<ol style="list-style-type: none">1. Open the Date/Time menu, and then select the Date menu.2. Press the up arrow or down arrow ▲/▼ to select the year, month, and day. Press the OK button after each selection.
Set the date format	<ol style="list-style-type: none">1. Open the Date/Time Format menu, and then select the Date Format menu.2. Press the up arrow or down arrow ▲/▼ to select the date format, and then press the OK button.
Set the time	<ol style="list-style-type: none">1. Open the Date/Time menu, and then select the Time menu.2. Press the up arrow or down arrow ▲/▼ to select the hour, minute, and AM/PM setting. Press the OK button after each selection.

Set the time format

1. Open the **Date/Time Format** menu, and then select the **Time Format** menu.
2. Press the up arrow or down arrow ▲/▼ to select the time format, and then press the **OK** button.

Set the time zone

1. Open the **Date/Time** menu, and then select the **Time Zone** menu.
2. Press the up arrow or down arrow ▲/▼ to select the time zone, and then press the **OK** button.

Set the wake time

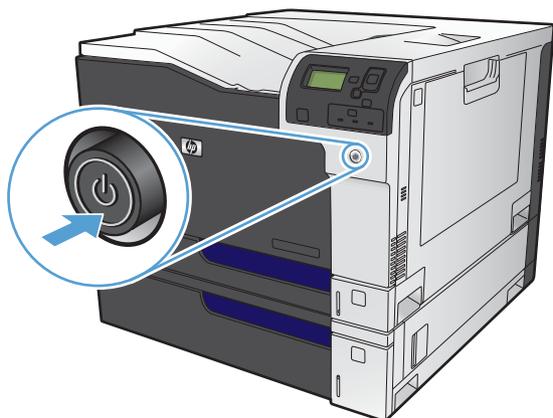
1. Press the Home button .
2. Press the down arrow ▼ to highlight the **Administration** menu, and then press the **OK** button.
3. Press the down arrow ▼ to highlight the **General Settings** menu, and then press the **OK** button.
4. Press the down arrow ▼ to highlight the **Energy Settings** menu, and then press the **OK** button.
5. Press the down arrow ▼ to highlight an existing sleep mode delay or add an event, and then press the **OK** button.

Install external I/O cards

This product is equipped with an external I/O (EIO) slot. You can install an additional HP Jetdirect print server card or external EIO hard drive in the available EIO slot.

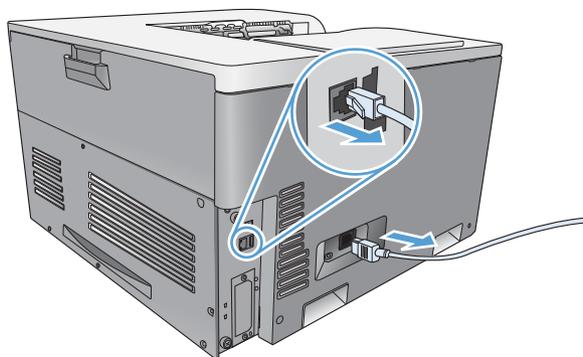
 **NOTE:** This example shows installing an HP Jetdirect print server card.

1. Turn the product off.

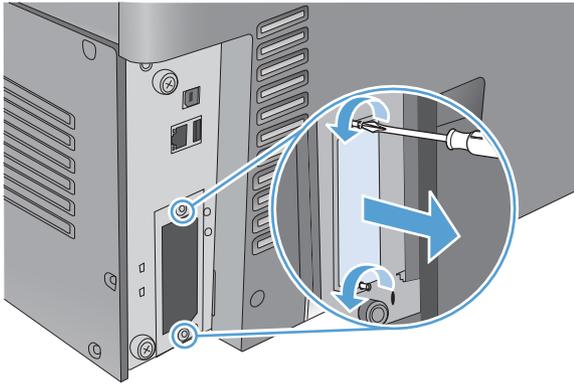


2. Disconnect all power and interface cables.

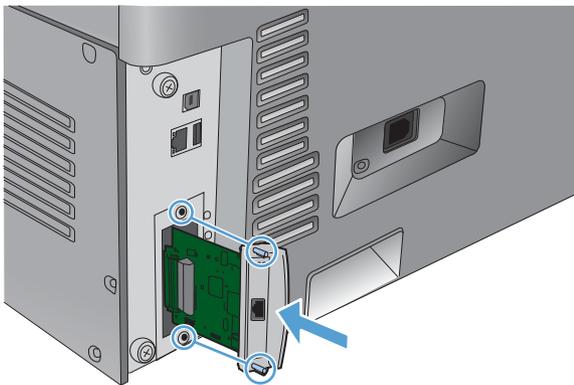
 **NOTE:** This illustration might not show all the cables.



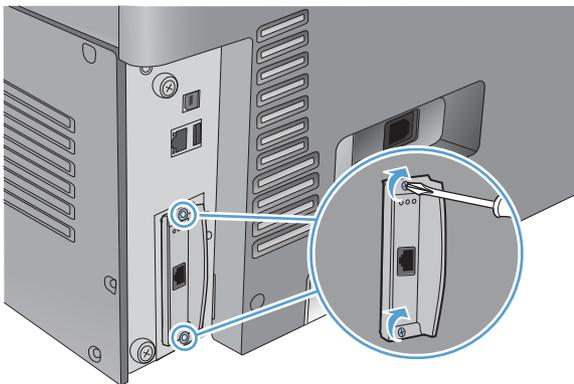
3. Loosen and remove the two retaining screws holding the cover for the EIO slot, and then remove the cover. You will not need these screws and the cover again. They can be discarded.



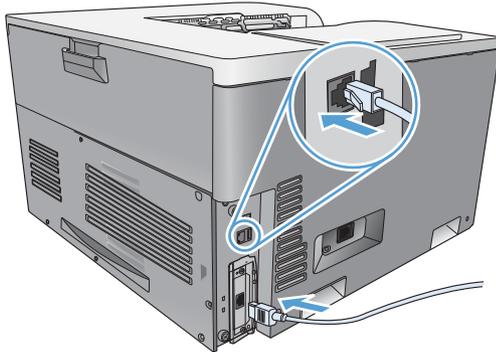
4. Firmly insert the HP Jetdirect print server card or other EIO accessory into the EIO slot.



5. Insert and tighten the retaining screws that came with the print server card.



6. Reconnect the power cable, connect the interface cable to the HP Jetdirect print server card, and turn the product on.



7. Print a configuration page. An HP Jetdirect configuration page that contains network configuration and status information should also print.

If it does not print, turn the product off, and then uninstall and reinstall the print server card to ensure that it is completely seated in the slot.

8. Perform one of these steps:
 - Choose the correct port. See the computer or operating system documentation for instructions.
 - Reinstall the software, choosing the network installation this time.

Clean the product

Over time, particles of toner and paper accumulate inside the product. This can cause print-quality problems during printing. Cleaning the product eliminates or reduces these problems.

Clean the paper path and print-cartridge areas every time that you change the print cartridge or whenever print-quality problems occur. As much as possible, keep the product free from dust and debris.

To clean the product exterior, use a soft, water-moistened cloth.

Clean the paper path

1. At the product control panel, press the Home button .
2. Open the following menus:
 1. **Device Maintenance**
 2. **Calibration/Cleaning**

3. Press the down arrow ▼ to highlight the **Print Cleaning Page** menu item, and then press the **OK** button.
4. Completion of the cleaning process depends on the product model:
 - **Non-duplex models:** After the first side prints, reload the page into Tray 1 according the instructions, and then press the **OK** button. After the second side prints, the task is complete. Discard the printed page.
 - **Duplex models:** After both sides print, the task is complete. Discard the printed page.

Product updates

To download the most recent firmware upgrade for the product, go to www.hp.com/support/cljcp5525 or www.hp.com/go/cljcp5525_firmware.

11 Solve problems

- [Self help](#)
- [Solve general problems](#)
- [Restore factory settings](#)
- [Interpret control-panel messages](#)
- [Clear jams](#)
- [Paper does not feed automatically](#)
- [Product feeds multiple sheets](#)
- [Improve print quality](#)
- [The product does not print or it prints slowly](#)
- [Solve walk-up USB printing problems](#)
- [Solve connectivity problems](#)
- [Solve software problems](#)

Self help

In addition to the information in this guide, other sources are available that provide helpful information.

Printable poster for using the product control panel	This poster is available on the product CD. It prints on four full-color pages that you can post near the product. It contains information on using the buttons and other features available on the product control panel.
Quick Reference Topics	Several Quick Reference Topics for this product are available at this website: www.hp.com/support/cljcp5525 . You can print these topics and keep them near the product. They are a handy reference for procedures that you perform frequently.
Quick Reference Guide	This guide contains procedures for the most commonly used product functions. The guide is available from this website: www.hp.com/support/cljcp5525 . You can print this guide and keep it near the product.
Control panel help	The control panel has built-in help that guides you through several tasks, such as replacing print cartridges and clearing jams.

Solve general problems

If the product is not responding correctly, complete the steps in the following checklist, in order. If the product does not pass a step, follow the corresponding troubleshooting suggestions. If a step resolves the problem, you can stop without performing the other steps on the checklist.

Troubleshooting checklist

1. Make sure that the product Ready light is on. If no lights are on, complete these steps:
 - a. Check the power-cable connections.
 - b. Check that the power is turned on.
 - c. Make sure that the line voltage is correct for the product power configuration. (See the label that is on the back of the product for voltage requirements.) If you are using a power strip and its voltage is not within specifications, plug the product directly into the wall. If it is already plugged into the wall, try a different outlet.
 - d. If none of these measures restores power, contact HP Customer Care.
2. Check the cabling.
 - a. Check the cable connection between the product and the computer or network port. Make sure that the connection is secure.
 - b. Make sure that the cable itself is not faulty by using a different cable, if possible.
 - c. Check the network connection.
3. Check to see if any messages appear on the control-panel display. If any error messages appear, see [Interpret control-panel messages on page 181](#).
4. Ensure that the paper that you are using meets specifications.
5. Print a configuration page. See [Print information pages on page 162](#). If the product is connected to a network, an HP Jetdirect page also prints.
 - a. If the pages do not print, check that at least one tray contains paper.
 - b. If the page jams in the product, see [Clear jams on page 182](#).
6. If the configuration page prints, check the following items:
 - a. If the page does not print correctly, the problem is with the product hardware. Contact HP Customer Care.
 - b. If the page prints correctly, then the product hardware is working. The problem is with the computer you are using, with the printer driver, or with the program.
7. Select one of the following options:

Windows: Click **Start**, click **Settings**, and then click **Printers** or **Printers and Faxes**. Double-click the name of the product.

-or-

Mac OS X: Open the **Printer Setup Utility** or the **Print & Fax** list, and double-click the line for the product.

8. Verify that you have installed the printer driver for this product. Check the program to make sure that you are using the printer driver for this product.
9. Print a short document from a different program that has worked in the past. If this solution works, then the problem is with the program you are using. If this solution does not work (the document does not print), complete these steps:
 - a. Try printing the job from another computer that has the product software installed.
 - b. If you connected the product to the network, connect the product directly to a computer with a USB cable. Redirect the product to the correct port, or reinstall the software, selecting the new connection type that you are using.

Factors that affect product performance

Several factors affect the time it takes to print a job:

- Maximum product speed, measured in pages per minute (ppm)
- The use of special paper (such as transparencies, heavy paper, and custom-size paper)
- Product processing and download time
- The complexity and size of graphics
- The speed of the computer you are using
- The USB connection
- The printer I/O configuration
- The network operating system and configuration (if applicable)
- The printer driver that you are using

Restore factory settings

Use the control panel menus to restore factory settings.

1. At the product control panel, press the Home button .
2. Press the down arrow ▼ to highlight the **Administration** menu, and then press the **OK** button.
3. Press the down arrow ▼ to highlight the **General Settings** menu, and then press the **OK** button.
4. Press the down arrow ▼ to highlight the **Restore Factory Settings** option, and then press the **OK** button to reset the product to the original factory settings.

Interpret control-panel messages

Control-panel message types

Four types of control-panel messages can indicate the status of or problems with the product.

Message type	Description
Status messages	Status messages reflect the current state of the product. They inform you of normal product operation and require no interaction to clear them. They change as the state of the product changes. Whenever the product is ready, not busy, and has no pending warning messages, the Ready status message appears if the product is online.
Warning messages	Warning messages inform you of data and print errors. These messages typically alternate with the Ready or status messages and remain until you press the OK button. Some warning messages are clearable. If the Clearable Warnings menu in the Display Settings menu is set to the Job option, the next print job clears these messages.
Error messages	<p>Error messages communicate that some action must be performed, such as adding paper or clearing a jam.</p> <p>Some error messages are auto-continuable. If the Continuable Events menu in the Display Settings menu is set to the Auto continue (10 seconds) option, the product continues normal operation after an auto-continuable error message appears for 10 seconds.</p> <p>NOTE: Pressing any button during the 10-second auto-continuable error message overrides the auto-continue feature, and the button function takes precedence. For example, pressing the Stop button  pauses printing and offers the option to cancel the print job.</p>
Critical-error messages	Critical error messages inform you of a product failure. You can clear some of these messages by turning the product off and then on. These messages are not affected by the Auto continue (10 seconds) setting. If a critical error persists, service is required.

Control-panel messages

The product provides robust control panel messaging. When a message appears on the control panel, follow the on-screen instructions to resolve the issue. If the product displays an “Error” or “Attention” message, and no steps are shown to resolve the issue, turn the product off then on. Contact HP support if you continue to experience issues with the product.

For additional information on a variety of topics, press the Help button  on the control panel.

Clear jams

Prevent jams

Common causes of jams¹

Cause	Solution
The paper length and width guides are not adjusted correctly.	Adjust the guides so they are against the paper stack.
The media does not meet specifications.	Use only media that meets HP specifications. See Paper and print media on page 71 .
You are using media that has already passed through a printer or copier.	Do not use media that has been previously printed on or copied.
An input tray is loaded incorrectly.	Remove any excess media from the input tray. Make sure that the stack is below the maximum stack height mark in the tray. See Load paper trays on page 80 .
The media is skewed.	The input-tray guides are not adjusted correctly. Adjust them so that they hold the stack firmly in place without bending it.
The media is binding or sticking together.	Remove the media, flex it, rotate it 180 degrees, or flip it over. Reload the media into the input tray. NOTE: Do not fan paper. Fanning can create static electricity, which can cause paper to stick together.
The media is removed before it settles into the output bin.	Wait until the page completely settles in the output bin before removing it.
The paper is too heavy.	Do not use paper that exceeds the supported weights for the input tray. See Supported paper types and tray capacity on page 78 . Do not use paper that exceeds the supported weight for automatic duplex printing. See Supported paper sizes for duplex printing on page 77 .
The media is in poor condition.	Replace the media.
The internal rollers from the tray are not picking up the media.	Remove the top sheet of media. If the media is too heavy, it might not be picked from the tray. See Supported paper types and tray capacity on page 78 .
The media has rough or jagged edges.	Replace the media.
The media is perforated or embossed.	Perforated or embossed media does not separate easily. Load sheets one at a time.
Paper was not stored correctly.	Replace the paper in the trays. Paper should be stored in the original packaging in a controlled environment.

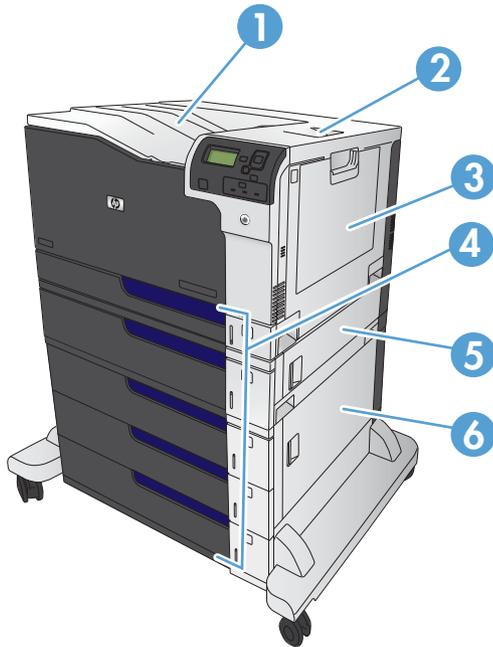
¹ If the product continues to jam, contact HP Customer Support or your authorized HP service provider.

Jam locations

Use this illustration to identify locations of jams. In addition, instructions appear on the control panel to direct you to the location of jammed paper and how to clear it.

 **NOTE:** Internal areas of the product that might need to be opened to clear jams have green handles or green labels.

Figure 11-1 Jam locations



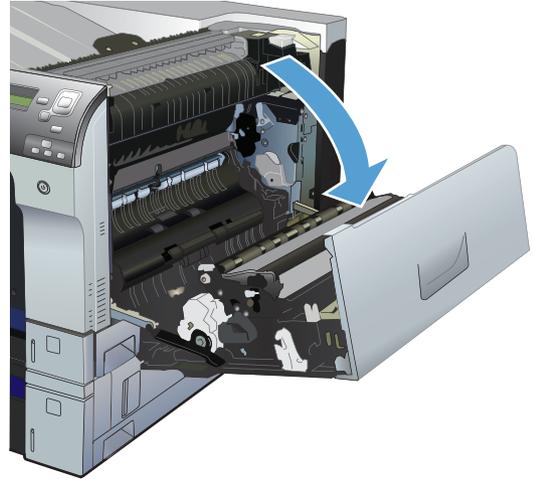
1	Output bin
2	Upper right door
3	Tray 1 area
4	Tray 2, Tray 3, and optional Trays 4, 5, and 6
5	Middle right door
6	Lower right door

 **WARNING!** To avoid electrical shock, remove any necklaces, bracelets, or other metal items before reaching into the inside of the product.

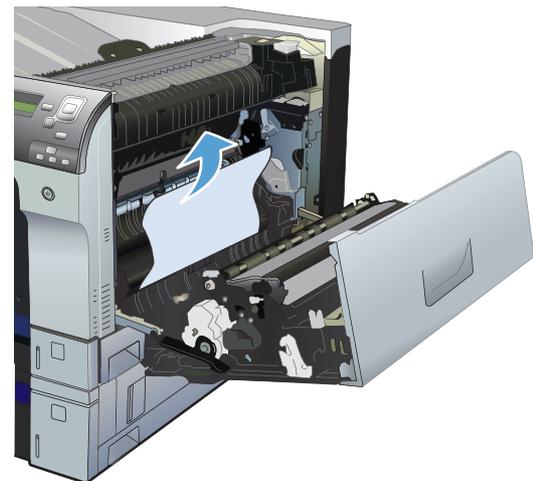
Clear jams in the upper right door

⚠ **WARNING!** The fuser can be hot while the product is in use. Wait for the fuser to cool before handling it.

1. Open the upper right door.

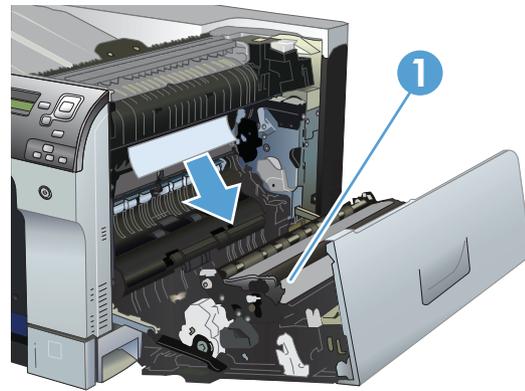


2. Gently pull the paper out of the pickup area.



3. If paper is visible entering the bottom of the fuser, gently pull downward to remove it.

CAUTION: Do not touch the transfer roller (callout 1). Contaminants on the roller can affect print quality.



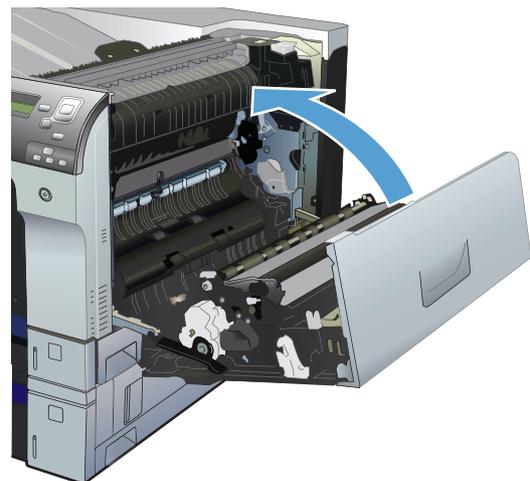
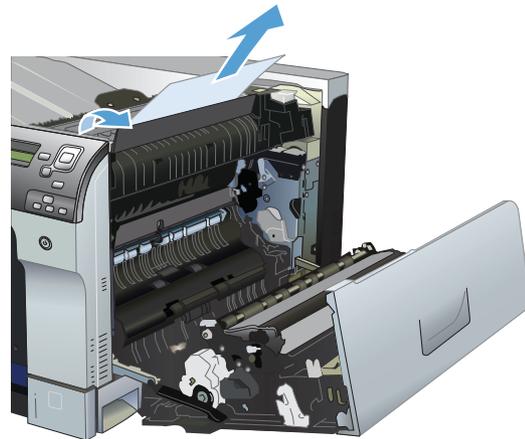
4. Paper could be jammed inside the fuser where it would not be visible. Open the fuser jam access door. If paper is jammed inside the fuser, gently pull it straight up to remove it. If the paper tears, remove all paper fragments.

WARNING! Even if the body of the fuser has cooled, the rollers that are inside could still be hot. Do not touch the fuser rollers until they have cooled.

If no paper is found but the product still reports a jam, remove the fuser to check for jammed paper inside the fuser cavity. Remove any paper, and then reinstall the fuser.

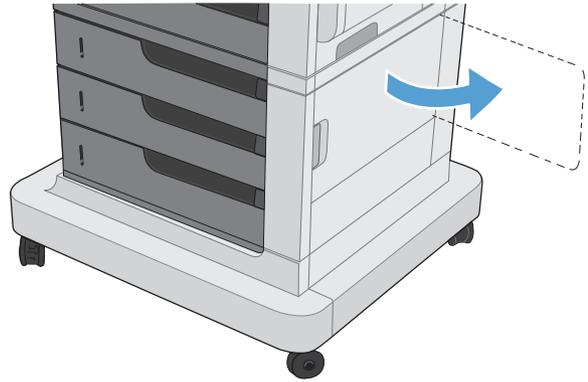
NOTE: Make sure that the fuser is reinstalled correctly before closing the upper right door.

5. Close the upper right door.

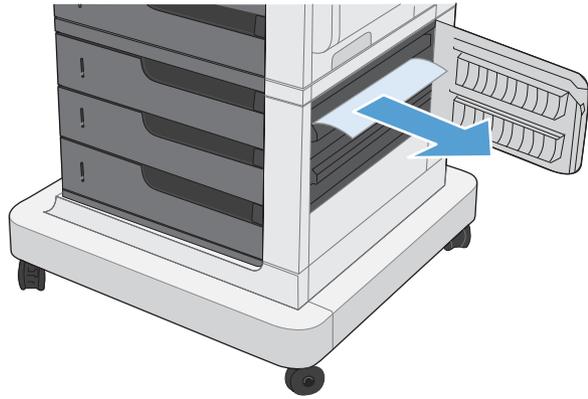


Clear jams in the lower right door

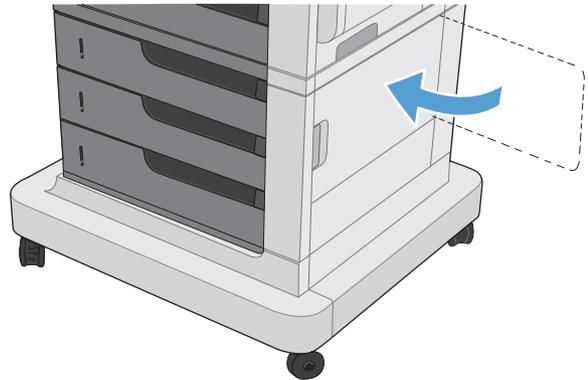
1. Open the lower right door.



2. If paper is visible, gently pull the jammed paper up or down to remove it.

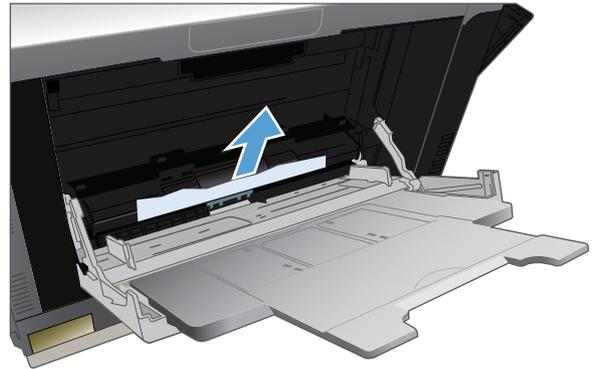


3. Close the lower right door.

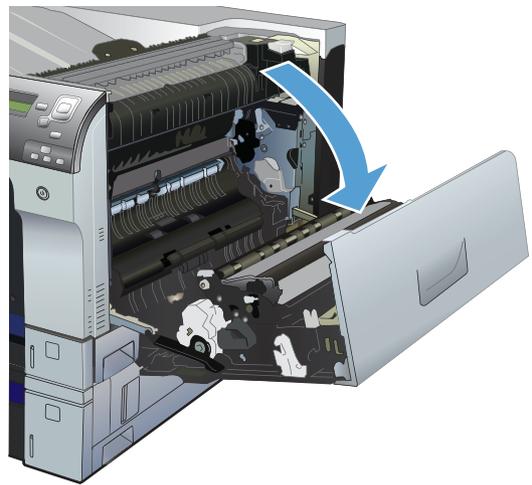


Clear jams in Tray 1

1. If jammed paper is visible in Tray 1, clear the jam by gently pulling the paper straight out. Touch the **OK** button to clear the message.



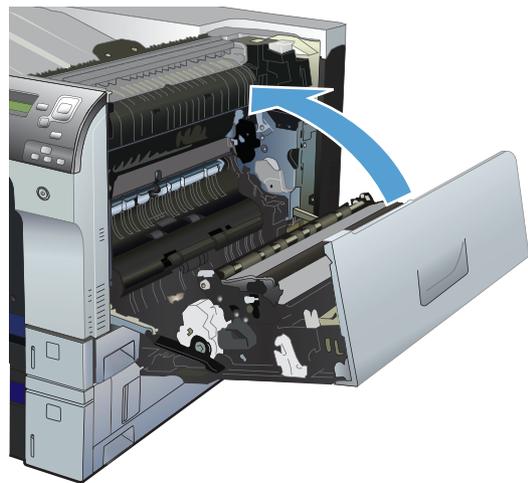
2. If you cannot remove the paper, or if no jammed paper is visible in Tray 1, close Tray 1 and open the upper right door.



3. Gently pull the paper out of the pick up area.



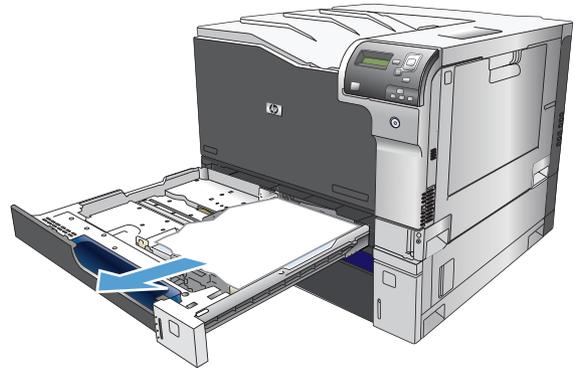
4. Close the upper right door.



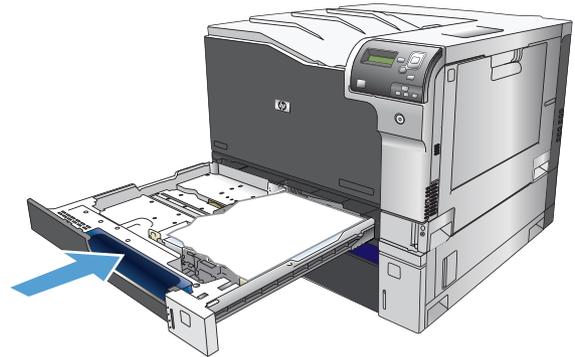
Clear jams from Tray 2, Tray 3, or an optional tray

△ **CAUTION:** Opening a tray when paper is jammed can cause the paper to tear and leave pieces of paper in the tray, which might cause another jam. Be sure to clear jams from the upper and lower right door before opening a tray.

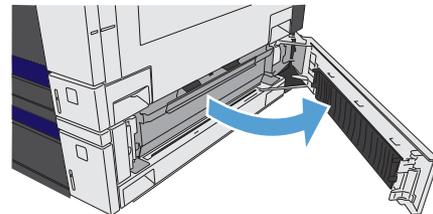
1. Open the tray and make sure that the paper is stacked correctly. Remove any jammed or damaged sheets of paper. To access jammed paper from the tray cavity, remove the tray from the product.



2. Close the tray.

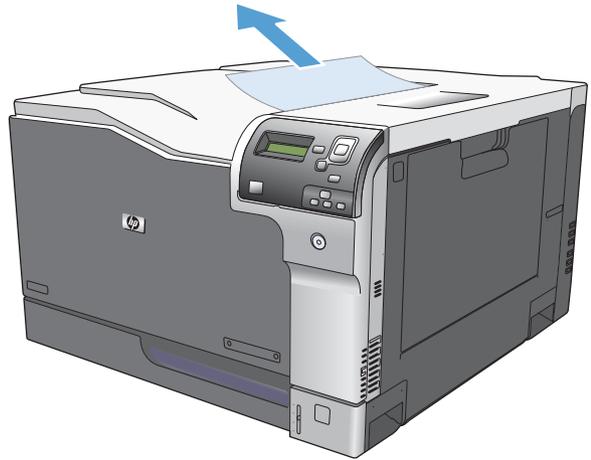


3. If the jam is in Tray 3, you also can open the door on the right side of the tray, remove the jammed paper, and then close the door.



Clear jams in the output bin area

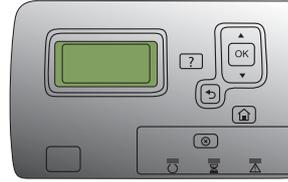
1. If paper is visible from the output bin, grasp the leading edge and remove it.



Change jam recovery

This product provides a jam recovery feature that reprints jammed pages.

1. Press the Home button .



2. Press the down arrow ▼ to highlight the **Administration** menu, and then press the **OK** button.
3. Press the down arrow ▼ to highlight the **General Settings** menu, and then press the **OK** button.
4. Press the down arrow ▼ to highlight the **Jam Recovery** menu, and then press the **OK** button.
5. Press the down arrow ▼ or up arrow ▲ to highlight the appropriate setting, and then press the **OK** button. The following options are available:
 - **Auto** — The product attempts to reprint jammed pages when sufficient memory is available. This is the default setting.
 - **Off** — The product does not attempt to reprint jammed pages. Because no memory is used to store the most recent pages, performance is optimal.

CAUTION: When using this option, if the product runs out of paper and the job is being printed on both sides, some pages can be lost.
 - **On** — The product always reprints jammed pages. Additional memory is allocated to store the last few pages printed. This might cause overall performance to suffer.
6. Press the Home button  to return to the **Ready** state.

Paper does not feed automatically

Paper does not feed automatically

Cause	Solution
Manual feed is selected in the software program.	Load Tray 1 with paper, or, if the paper is loaded, press the OK button.
The correct size paper is not loaded.	Load the correct size paper.
The input tray is empty.	Load paper into the input tray.
Paper from a previous jam has not been completely removed.	Open the product and remove any paper in the paper path.
The paper size is not configured correctly for the input tray.	Print a configuration page or use the control panel to determine the paper size for which the tray is configured.
The guides in the tray are not against the paper.	Verify that the paper guides are touching the paper.
The manual-feed prompt is set to Always . The product always prompts for manual feed, even if the tray is loaded.	Load Tray 1 with paper, or, if the paper is loaded, press the OK button. Or, change the manual-feed prompt setting to Unless loaded , so that the product prompts for manual feed only when the tray is empty.
The Use Requested Tray setting on the Manage trays menu is set to Exclusively , and the requested tray is empty. The product will not use another tray.	Load the requested tray. Or, change the setting from Exclusively to First on the Manage Trays menu. The product can use other trays if no media is loaded in the specified tray.

Product feeds multiple sheets

Product feeds multiple sheets

Cause	Solution
Print paper is sticking together.	Remove paper, flex it, rotate it 180 degrees or flip it over, and then reload it into the tray. NOTE: Do not fan paper. Fanning can cause static electricity, which can cause paper to stick together.
Paper does not meet the specifications for this product.	Use only paper that meets HP paper specifications for this product.
Trays are not properly adjusted.	Make sure that the paper guides match the size of paper being used.

Improve print quality

You can prevent most print-quality problems by following these guidelines.

- Use the correct paper type setting in the printer driver.
- Use paper that meets HP specifications for this product.
- Clean the product as necessary.
- Replace print cartridges when they are reaching the end of their estimated life and print quality is no longer acceptable.
- Use the printer driver that best meets your printing needs.

Select a paper type

1. Open the printer driver, click the **Properties** or **Preferences** button, and then click the **Paper/Quality** tab.
2. Select a type from the **Type is** drop-down list.
3. Click the **OK** button.

Use paper that meets HP specifications

Use different paper if you are having any of the following problems:

- The printing is too light or seems faded in areas.
- Specks of toner are on the printed pages.
- Toner is smearing on the printed pages.
- Printed characters seem misformed.
- Printed pages are curled.

Always use a paper type and weight that this product supports. In addition, follow these guidelines when selecting paper:

- Use paper that is of good quality and free of cuts, nicks, tears, spots, loose particles, dust, wrinkles, voids, staples, and curled or bent edges.
- Use paper that has not been previously printed on.
- Use paper that is designed for use in laser printers. Do not use paper that is designed only for use in Inkjet printers.
- Use paper that is not too rough. Using smoother paper generally results in better print quality.

Print a cleaning page

Print a cleaning page to remove dust and excess toner from the paper path if you are having any of the following problems:

- Specks of toner are on the printed pages.
- Toner is smearing on the printed pages.
- Repeated marks occur on the printed pages.

Use the following procedure to print a cleaning page.

1. At the product control panel, press the Home button .
2. Open the following menus:
 1. **Device Maintenance**
 2. **Calibration/Cleaning**
3. Press the down arrow ▼ to highlight the **Print Cleaning Page** menu item, and then press the **OK** button.
4. Completion of the cleaning process depends on the product model:
 - **Non-duplex models:** After the first side prints, reload the page into Tray 1 according the instructions, and then press the **OK** button. After the second side prints, the task is complete. Discard the printed page.
 - **Duplex models:** After both sides print, the task is complete. Discard the printed page.

Calibrate the product

Calibration is a product function that optimizes print quality. If you experience any image-quality problems, calibrate the product.

1. Press the Home button .
2. Press the down arrow ▼ to highlight the **Device Maintenance** menu, and then press the **OK** button.
3. Press the down arrow ▼ to highlight the **Calibration/Cleaning** menu, and then press the **OK** button.
4. Press the down arrow ▼ to highlight the **Full Calibration** setting, and then press the **OK** button.

Set the image registration

If you are having problems with text aligning on the page, use the **Set Registration** menu to set the image registration.

1. Press the Home button .
2. Press the down arrow ▼ to highlight the **Administration** menu, and then press the **OK** button.

3. Press the down arrow ▼ to highlight the **General Settings** menu, and then press the **OK** button.
4. Press the down arrow ▼ to highlight the **Print Quality** menu, and then press the **OK** button.
5. Press the down arrow ▼ to highlight the **Image Registration** menu, and then press the **OK** button.
6. Press the down arrow ▼ to highlight the **Adjust Tray <X>** menu for the tray that you want to adjust, and then press the **OK** button.
7. Press the down arrow ▼ to highlight the **Print Test Page** setting, and then press the **OK** button.
8. Follow the instructions on the test page to complete the adjustment.

Internal print-quality test pages

Use the built-in print-quality troubleshooting pages to help diagnose and solve print-quality problems.

1. Press the Home button .
2. Open the following menus:
 1. **Troubleshooting**
 2. **Print Quality Pages**
3. Press the down arrow ▼ to highlight the **Print PQ Troubleshooting Pages** item, and then press the **OK** button to print the pages.

The product returns to the **Ready** state after printing the print-quality troubleshooting pages. Follow the instructions on the pages that print out.

Check the print cartridge

Check each print cartridge, and replace it if necessary, if you are having any of the following problems:

- The printing is too light or seems faded in areas.
- Printed pages have small unprinted areas.
- Printed pages have streaks or bands.

 **NOTE:** If you are using a draft or EconoMode print setting, the printing might appear light.

If you determine that you need to replace a print cartridge, print the supplies status page to find the part number for the correct genuine HP print cartridge.

Type of print cartridge	Steps to resolve the problem
Refilled or remanufactured print cartridge	Hewlett-Packard Company cannot recommend the use of non-HP supplies, either new or remanufactured. Because they are not HP products, HP cannot influence their design or control their quality. If you are using a refilled or remanufactured print cartridge and are not satisfied with the print quality, replace the cartridge with a genuine HP cartridge that has the words "HP" or "Hewlett-Packard" on it, or has the HP logo on it.
Genuine HP print cartridge	<ol style="list-style-type: none"> 1. The product control panel or the supplies status page indicates Very Low status when the cartridge has reached the end of its designated life. Replace the print cartridge if print quality is no longer acceptable. 2. Visually inspect the print cartridge for damage. See the instructions that follow. Replace the print cartridge if necessary. 3. If printed pages have marks that repeat several times at the same distance apart, print a cleaning page. If this does not solve the problem, use the repeating defects information in this document to identify the cause of the problem.

Use the printer driver that best meets your printing needs

You might need to use a different printer driver if the printed page has unexpected lines in graphics, missing text, missing graphics, incorrect formatting, or substituted fonts.

HP PCL 6 driver	<ul style="list-style-type: none"> • Provided as the default driver. This driver is automatically installed unless you select a different one. • Recommended for all Windows environments • Provides the overall best speed, print quality, and product-feature support for most users • Developed to align with the Windows Graphic Device Interface (GDI) for the best speed in Windows environments • Might not be fully compatible with third-party and custom software programs that are based on PCL 5
HP UPD PCL 6 driver	<ul style="list-style-type: none"> • Recommended for all Windows environments • Provides the overall best speed, print quality, and product-feature support for most users • Developed to align with the Windows GDI for the best speed in Windows environments • Might not be fully compatible with third-party and custom software programs that are based on PCL 5

HP UPD PS driver

- Recommended for printing with Adobe® software programs or with other highly graphics-intensive software programs
- Provides support for printing from postscript emulation needs, or for postscript flash font support

HP UPD PCL 5

- Recommended for general office printing in Windows environments
 - Compatible with previous PCL versions and older HP LaserJet products
 - The best choice for printing from third-party or custom software programs
 - The best choice when operating with mixed environments, which require the product to be set to PCL 5 (UNIX®, Linux, mainframe)
 - Designed for use in corporate Windows environments to provide a single driver for use with multiple printer models
 - Preferred when printing to multiple printer models from a mobile Windows computer
-

Download additional printer drivers from this Web site: www.hp.com/support/cljcp5525.

Repetitive defects ruler

If the print-quality issues repeat at regular intervals use the table below to identify the cause of the defect.

Place the top of a ruler at the first defect. The measurement that is beside the next occurrence of the defect indicates which component needs to be replaced.

Distance between defects	Product components that cause the defect
35 mm	Print cartridge (primary charging roller)
42 mm	Print cartridge (developer roller)
50 mm	Print engine (primary transfer roller)
61 mm	Print engine (secondary transfer roller)
76 mm	Fuser (fuser film)
78 mm	Fuser (pressure roller)
94 mm	Print cartridge (OPC)

The product does not print or it prints slowly

Problem	Cause	Solution
Pages print but are totally blank.	The document might contain blank pages.	Check the document that you are printing to see if content appears on all of the pages.
	The product might be malfunctioning.	To check the product, print a Configuration page.
	All of the print cartridges might have reached the end of life.	Replace the toner cartridges if a Supplies very low message is displayed.
Pages print very slowly.	Heavier paper types can slow the print job.	Print on a different type of paper. Proper fusing may require a slower print speed to ensure the best print quality.
	Complex pages can print slowly.	Simplify the page.
Pages did not print.	The product might not be pulling paper correctly.	Make sure that paper is loaded in the tray correctly.
	The paper is jamming in the product.	Clear the jam. See Clear jams on page 182 .
	The USB cable might be defective or incorrectly connected.	<ul style="list-style-type: none">• Disconnect the USB cable at both ends and reconnect it.• Try printing a job that has printed in the past.• Try using a different USB cable.
	Other devices are running on your computer.	The product might not share a USB port. If you have an external hard drive or network switchbox that is connected to the same port as the product, the other device might be interfering. To connect and use the product, you must disconnect the other device or you must use two USB ports on the computer.

Solve walk-up USB printing problems

- [The Open From USB menu does not open when you insert the USB accessory](#)
- [The file does not print from the USB storage accessory](#)
- [The file that you want to print is not listed in the Open From USB menu](#)

The Open From USB menu does not open when you insert the USB accessory

1. You might be using a USB storage accessory or a file system that this product does not support. Save the files on a standard USB storage accessory that uses File Allocation Table (FAT) file systems. The product supports FAT12, FAT16, and FAT32 USB storage accessories.
2. If another menu is already open, close that menu and then reinsert the USB storage accessory.
3. The USB storage accessory might have multiple partitions. (Some USB storage accessory manufacturers install software on the accessory that creates partitions, similar to a CD.) Reformat the USB storage accessory to remove the partitions, or use a different USB storage accessory.
4. The USB storage accessory might require more power than the product can provide.
 - a. Remove the USB storage accessory.
 - b. Turn the product off and then on.
 - c. Use a USB storage accessory that has its own power supply or that requires less power.
5. The USB storage accessory might not be functioning correctly.
 - a. Remove the USB storage accessory.
 - b. Turn the product off and then on.
 - c. Try printing from another USB storage accessory.

The file does not print from the USB storage accessory

1. Make sure that paper is in the tray.
2. Check the control panel for messages. If paper is jammed in the product, clear the jam.

The file that you want to print is not listed in the Open From USB menu

1. You might be trying to print a file type that the USB printing feature does not support. The product supports .pdf, .prn, .pcl, .ps, and .cht file types.
2. You might have too many files in a single folder on the USB storage accessory. Reduce the number of files in the folder by moving them to subfolders.
3. You might be using a character set for the file name that the product does not support. In this case, the product replaces the file names with characters from a different character set. Rename the files using ASCII characters.

Solve connectivity problems

Solve direct-connect problems

If you have connected the product directly to a computer, check the cable.

- Verify that the cable is connected to the computer and to the product.
- Verify that the cable is not longer than 2 m (6.5 ft). Replace the cable if necessary.
- Verify that the cable is working correctly by connecting it to another product. Replace the cable if necessary.

Solve network problems

Check the following items to verify that the product is communicating with the network. Before beginning, print a configuration page. See [Print information pages on page 162](#).

Problem	Solution
Poor physical connection	<p>Verify that the product is attached to the correct network port using a cable of the correct length.</p> <p>Verify that cable connections are secure.</p> <p>Look at the network port connection on the back of the product, and verify that the amber activity light and the green link-status light are lit.</p> <p>If the problem continues, try a different cable or port on the hub.</p>
The computer is unable to communicate with the product.	<p>Use the command prompt to ping the product from your computer. For example:</p> <pre>ping 192.168.45.39</pre> <p>Verify that the ping displays round-trip times, which indicates that it is working.</p> <p>If the ping command failed, verify that the network hubs are on, and then verify that the network settings, the product, and the computer are all configured for the same network.</p>
Incorrect link and duplex settings	<p>Hewlett-Packard recommends leaving this setting in automatic mode (the default setting). See Link speed and duplex settings on page 69.</p>
Incorrect IP address for the product on the computer	<p>Use the correct IP address. The IP address is listed on the configuration page.</p> <p>If the IP address is correct, delete the product and then add it again.</p>
New software programs have caused compatibility problems.	<p>Verify that any new software programs are correctly installed and that they use the correct printer driver.</p>
Your computer or workstation is set up incorrectly.	<p>Check the network drivers, printer drivers, and the network redirection.</p> <p>Verify that the operating system is configured correctly.</p>
The protocol is disabled, or other network settings are incorrect.	<p>Review the configuration page to check the status of the protocol. Enable it if necessary.</p> <p>Reconfigure the network settings if necessary. See Connect to a network on page 61.</p>

Solve software problems

Problem	Solution
A printer driver for the product is not visible in the Printer folder	<p>Reinstall the product software. Install the software from the CD, and follow the onscreen instructions.</p> <p>NOTE: Close any applications that are running. To close an application that has an icon in the system tray, right-click the icon, and select Close or Disable.</p> <p>Try plugging the USB cable into a different USB port on the computer.</p>
An error message was displayed during the software installation	<p>Reinstall the product software. Install the software from the CD, and follow the onscreen instructions.</p> <p>NOTE: Close any applications that are running. To close an application that has an icon in the task bar, right-click the icon, and select Close or Disable.</p> <p>Check the amount of free space on the drive where you are installing the product software. If necessary, free up as much space as you can, and reinstall the product software. Install the software from the CD, and follow the onscreen instructions.</p> <p>If necessary, run the Disk Defragmenter, and reinstall the product software. Install the software from the CD, and follow the onscreen instructions.</p>
The product is in Ready mode, but nothing prints	<p>Print a Configuration page, and verify the product functionality.</p> <p>Verify that all of the cables are correctly seated and within specifications. This includes the USB and power cables. Try a new cable.</p> <p>Verify the IP Address on the Embedded Jetdirect Page matches the IP address for the software port. Use one of the following procedures:</p>
Windows XP, Windows Server 2003, Windows Server 2008, and Windows Vista	<ol style="list-style-type: none"> 1. Click Start. 2. Click Settings. 3. Click Printers and Faxes (using the default Start menu view) or click Printers (using the Classic Start menu view). 4. Right-click the product driver icon, and then select Properties. 5. Click the Ports tab, and then click Configure Port. 6. Verify the IP address, and then click OK or Cancel. 7. If the IP Addresses are not the same, delete the driver, and reinstall the driver using the correct IP address.
Windows 7	<ol style="list-style-type: none"> 1. Click Start. 2. Click Devices and Printers. 3. Right-click the product driver icon, and then select Printer properties. 4. Click the Ports tab, and then click Configure Port. 5. Verify the IP address, and then click OK or Cancel. 6. If the IP Addresses are not the same, delete the driver, and reinstall the driver using the correct IP address.

Solve common Windows problems

Error message:

“(Name of the program, for example, Internet Explorer) has encountered a problem and needs to close. We are sorry for the inconvenience”

Cause	Solution
	<p>Close all software programs, restart Windows, and try again.</p> <p>If the application referenced is the printer driver, select or install a different printer driver. If the product PCL 6 printer driver is selected, switch to the PCL 5 or HP postscript level 3 emulation printer driver.</p> <p>See the Microsoft Windows documentation that came with the computer for more information about Windows error messages, or go to www.microsoft.com.</p>

Solve common Mac problems

The printer driver is not listed in the Printer Setup Utility or the Print & Fax list.

Cause	Solution
The product software might not have been installed or was installed incorrectly.	<p>Make sure that the product .GZ file is in the following hard-drive folder:</p> <ul style="list-style-type: none">• Mac OS X 10.4: Library/Printers/PPDs/Contents/Resources/<lang>.lproj, where <lang> is the two-letter language code for the language that you are using.• Mac OS X 10.5 and 10.6: Library/Printers/PPDs/Contents/Resources <p>If necessary, reinstall the software. See the getting started guide for instructions.</p>
The Postscript Printer Description (PPD) file is corrupt.	<p>Delete the .GZ file from the following hard-drive folder:</p> <ul style="list-style-type: none">• Mac OS X 10.4: Library/Printers/PPDs/Contents/Resources/<lang>.lproj, where <lang> is the two-letter language code for the language that you are using.• Mac OS X 10.5 and 10.6: Library/Printers/PPDs/Contents/Resources <p>Reinstall the software. See the getting started guide for instructions.</p>

The product name, IP address, or Bonjour host name does not appear in the product list in the Printer Setup Utility or the Print & Fax list.

Cause	Solution
The product might not be ready.	Make sure that the cables are connected correctly, the product is on, and the Ready light is on. If you are connecting through a USB or Ethernet hub, try connecting directly to the computer or use a different port.
The wrong connection type might be selected.	Make sure that USB, IP Printing, or Bonjour is selected, depending on the type of connection that exists between the product and the computer.
The wrong product name, IP address, or Bonjour host name is being used.	Print a configuration page to check the product name, IP address, or Bonjour host name. Verify that the name, IP address, or Bonjour host name on the configuration page matches the product name, IP address, or Bonjour host name in the Printer Setup Utility or the Print & Fax list.
The interface cable might be defective or of poor quality.	Replace the cable with a high-quality cable.

The printer driver does not automatically set up your selected product in the Printer Setup Utility or the Print & Fax list.

Cause	Solution
The product might not be ready.	Make sure that the cables are connected correctly, the product is on, and the Ready light is on. If you are connecting through a USB or Ethernet hub, try connecting directly to the computer or use a different port.
The product software might not have been installed or was installed incorrectly.	Make sure that the product PPD is in the following hard-drive folder: <ul style="list-style-type: none">• Mac OS X 10.4: Library/Printers/PPDs/Contents/Resources/<lang>.lproj, where <lang> is the two-letter language code for the language that you are using.• Mac OS X 10.5 and 10.6: Library/Printers/PPDs/Contents/Resources If necessary, reinstall the software. See the getting started guide for instructions.
The Postscript Printer Description (PPD) file is corrupt.	Delete the .GZ file from the following hard-drive folder: <ul style="list-style-type: none">• Mac OS X 10.4: Library/Printers/PPDs/Contents/Resources/<lang>.lproj, where <lang> is the two-letter language code for the language that you are using.• Mac OS X 10.5 and 10.6: Library/Printers/PPDs/Contents/Resources Reinstall the software. See the getting started guide for instructions.
The interface cable might be defective or of poor quality.	Replace the interface cable with a high-quality cable.

A print job was not sent to the product that you wanted.

Cause	Solution
The print queue might be stopped.	Restart the print queue. Open print monitor and select Start Printer .
The wrong product name or IP address is being used. Another product with the same or similar name, IP address, or Bonjour host name might have received your print job.	Print a configuration page to check the product name, IP address, or Bonjour host name. Verify that the name, IP address, or Bonjour host name on the configuration page matches the product name, IP address, or Bonjour host name in the Printer Setup Utility or the Print & Fax list.

An encapsulated PostScript (EPS) file does not print with the correct fonts.

Cause	Solution
This problem occurs with some programs.	<ul style="list-style-type: none">• Try downloading the fonts that are contained in the EPS file to the product before printing.• Send the file in ASCII format instead of binary encoding.

You are unable to print from a third-party USB card.

Cause	Solution
This error occurs when the software for USB products is not installed.	When adding a third-party USB card, you might need the Apple USB Adapter Card Support software. The most current version of this software is available from the Apple Web site.

When connected with a USB cable, the product does not appear in the Printer Setup Utility or the Print & Fax list after the driver is selected.

Cause

This problem is caused by either a software or a hardware component.

Solution

Software troubleshooting

- Check that your Macintosh supports USB.
- Verify that your Macintosh operating system is Mac OS X 10.4 or later.
- Ensure that your Macintosh has the appropriate USB software from Apple.

Hardware troubleshooting

- Check that the product is turned on.
- Verify that the USB cable is connected correctly.
- Check that you are using the appropriate high-speed USB cable.
- Ensure that you do not have too many USB devices drawing power from the chain. Disconnect all of the devices from the chain, and connect the cable directly to the USB port on the host computer.
- Check to see if more than two nonpowered USB hubs are connected in a row on the chain. Disconnect all of the devices from the chain and connect the cable directly to the USB port on the host computer.

NOTE: The iMac keyboard is a nonpowered USB hub.

A Supplies and accessories

- [Order parts, accessories, and supplies](#)
- [Part numbers](#)

Order parts, accessories, and supplies

Order supplies and paper	www.hp.com/go/suresupply
Order genuine HP parts or accessories	www.hp.com/buy/parts
Order through service or support providers	Contact an HP-authorized service or support provider.
Order using HP software	Use the HP Embedded Web Server on page 163

Part numbers

Ordering information and availability might change during the life of the product.

Accessories

Item	Description	Part number
HP Color LaserJet 1 x 500 Paper Feeder	500-sheet paper tray	CE860A
HP Color LaserJet 3 x 500 Paper Feeder and stand	1500-sheet paper tray. Contains three 500-sheet trays.	CE725A

Print cartridges

Item	Description ¹	Part number
HP Color LaserJet black print cartridge	Black cartridge	CE270A
HP Color LaserJet cyan print cartridge	Cyan cartridge	CE271A
HP Color LaserJet yellow print cartridge	Yellow cartridge	CE272A
HP Color LaserJet magenta print cartridge	Magenta cartridge	CE273A

¹ For more information, go to www.hp.com/go/learnaboutesupplies.

Memory

Item	Description	Part number
HP Secure High Performance EIO Hard Disk	Hard disk to install in the EIO accessory slot 63 mm (2.5 in)	J8019A

Cables and interfaces

Item	Description	Part number
Enhanced I/O (EIO) card	HP Jetdirect 635n IPv6/IPsec Print Server	J7961G
	HP Jetdirect 690n IPv6/IPsec 802.11g Wireless Print Server	J8007G
USB cable	2-meter standard USB-compatible device connector	C6518A

Maintenance kits

Item	Description	Part number
Fuser kit	110 Volt replacement fuser	CE977A
	220 Volt replacement fuser	CE978A
Transfer kit	Replacement transfer belt, transfer roller unit, 9 feed rollers for Trays 2-6, and 6 pickup rollers for Trays 1-6.	CE979A
Toner Collection Unit	Receptacle for toner that has not fused to the paper.	CE980A

B Service and support

- [Hewlett-Packard limited warranty statement](#)
- [HP's Premium Protection Warranty: LaserJet print cartridge limited warranty statement](#)
- [Color LaserJet Fuser Kit, Toner Collection Unit, and Transfer Kit Limited Warranty Statement](#)
- [Data stored on the print cartridge](#)
- [End User License Agreement](#)
- [Customer self-repair warranty service](#)
- [Customer support](#)

Hewlett-Packard limited warranty statement

HP PRODUCT	DURATION OF LIMITED WARRANTY
HP Color LaserJet CP5525n, CP5525dn, CP5525xh	One-year on-site warranty

HP warrants to you, the end-user customer, that HP hardware and accessories will be free from defects in materials and workmanship after the date of purchase, for the period specified above. If HP receives notice of such defects during the warranty period, HP will, at its option, either repair or replace products which prove to be defective. Replacement products may be either new or equivalent in performance to new.

HP warrants to you that HP software will not fail to execute its programming instructions after the date of purchase, for the period specified above, due to defects in material and workmanship when properly installed and used. If HP receives notice of such defects during the warranty period, HP will replace software which does not execute its programming instructions due to such defects.

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HP's Premium Protection Warranty: LaserJet print cartridge limited warranty statement

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This warranty does not apply to products that (a) have been refilled, refurbished, remanufactured or tampered with in any way, (b) experience problems resulting from misuse, improper storage, or operation outside of the published environmental specifications for the printer product or (c) exhibit wear from ordinary use.

To obtain warranty service, please return the product to place of purchase (with a written description of the problem and print samples) or contact HP customer support. At HP's option, HP will either replace products that prove to be defective or refund your purchase price.

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Color LaserJet Fuser Kit, Toner Collection Unit, and Transfer Kit Limited Warranty Statement

This HP product is warranted to be free from defects in materials and workmanship until the printer provides a low-life indicator on the control panel.

This warranty does not apply to products that (a) have been refurbished, remanufactured or tampered with in any way, (b) experience problems resulting from misuse, improper storage, or operation outside of the published environmental specifications for the printer product or (c) exhibit wear from ordinary use.

To obtain warranty service, please return the product to place of purchase (with a written description of the problem) or contact HP customer support. At HP's option, HP will either replace products that prove to be defective or refund your purchase price.

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Data stored on the print cartridge

The HP print cartridges used with this product contain a memory chip that assists in the operation of the product.

In addition, this memory chip collects a limited set of information about the usage of the product, which might include the following: the date when the print cartridge was first installed, the date when the print cartridge was last used, the number of pages printed using the print cartridge, the page coverage, the printing modes used, any printing errors that might have occurred, and the product model. This information helps HP design future products to meet our customers' printing needs.

The data collected from the print cartridge memory chip does not contain information that can be used to identify a customer or user of the print cartridge or their product.

HP collects a sampling of the memory chips from print cartridges returned to HP's free return and recycling program (HP Planet Partners: www.hp.com/recycle). The memory chips from this sampling are read and studied in order to improve future HP products. HP partners who assist in recycling this print cartridge might have access to this data, as well.

Any third party possessing the print cartridge might have access to the anonymous information on the memory chip. If you prefer to not allow access to this information, you can render the chip inoperable. However, after you render the memory chip inoperable, the memory chip cannot be used in an HP product.

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Rev. 04/09

Customer self-repair warranty service

HP products are designed with many Customer Self Repair (CSR) parts to minimize repair time and allow for greater flexibility in performing defective parts replacement. If during the diagnosis period, HP identifies that the repair can be accomplished by the use of a CSR part, HP will ship that part directly to you for replacement. There are two categories of CSR parts: 1) Parts for which customer self repair is mandatory. If you request HP to replace these parts, you will be charged for the travel and labor costs of this service. 2) Parts for which customer self repair is optional. These parts are also designed for Customer Self Repair. If, however, you require that HP replace them for you, this may be done at no additional charge under the type of warranty service designated for your product.

Based on availability and where geography permits, CSR parts will be shipped for next business day delivery. Same-day or four-hour delivery may be offered at an additional charge where geography permits. If assistance is required, you can call the HP Technical Support Center and a technician will help you over the phone. HP specifies in the materials shipped with a replacement CSR part whether a defective part must be returned to HP. In cases where it is required to return the defective part to HP, you must ship the defective part back to HP within a defined period of time, normally five (5) business days. The defective part must be returned with the associated documentation in the provided shipping material. Failure to return the defective part may result in HP billing you for the replacement. With a customer self repair, HP will pay all shipping and part return costs and determine the courier/carrier to be used.

Customer support

Get telephone support for your country/region	Country/region phone numbers are on the flyer that was in the box with your product or at www.hp.com/support/ .
Have the product name, serial number, date of purchase, and problem description ready.	
Get 24-hour Internet support	www.hp.com/support/cljcp5525
Get support for products used with a Macintosh computer	www.hp.com/go/macosex
Download software utilities, drivers, and electronic information	www.hp.com/support/cljcp5525
Order additional HP service or maintenance agreements	www.hp.com/go/carepack
Register your product	www.register.hp.com

C Product specifications

- [Physical specifications](#)
- [Power consumption, electrical specifications, and acoustic emissions](#)
- [Environmental specifications](#)

Physical specifications

Table C-1 Product dimensions

Product	Height	Depth	Width	Weight
HP Color LaserJet CP5525n	465 mm (18.3 in)	586 mm (23 in)	544 mm (21.4 in)	53.3 kg (117.3 lb)
HP Color LaserJet CP5525dn	465 mm (18.3 in)	586 mm (23 in)	544 mm (21.4 in)	53.5 kg (117.8 lb)
HP Color LaserJet CP5525xh	885 mm (34.8 in)	688 mm (27 in)	745 mm (29.3 in)	84 kg (184.8 lb)

Power consumption, electrical specifications, and acoustic emissions

See www.hp.com/support/cljcp5525 for current information.

Environmental specifications

Environmental condition	Recommended	Allowed
Temperature (product and print cartridge)	17° to 25°C (63° to 77°F)	15° to 27°C (59° to 81°F)
Relative humidity	30% to 70% relative humidity (RH)	10% to 70% RH
Altitude	N/A	0 m (0 ft) to 3000 m (9842 ft)

D Regulatory information

- [FCC regulations](#)
- [Environmental product stewardship program](#)
- [Declaration of conformity](#)
- [Safety statements](#)

FCC regulations

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

 **NOTE:** Any changes or modifications to the printer that are not expressly approved by HP could void the user's authority to operate this equipment.

Use of a shielded interface cable is required to comply with the Class A limits of Part 15 of FCC rules.

Environmental product stewardship program

Protecting the environment

Hewlett-Packard Company is committed to providing quality products in an environmentally sound manner. This product has been designed with several attributes to minimize impacts on our environment.

Ozone production

This product generates no appreciable ozone gas (O₃).

Power consumption

Power usage drops significantly while in Ready and Sleep mode, which saves natural resources and saves money without affecting the high performance of this product. To determine the ENERGY STAR® qualification status for this product, see the Product Data Sheet or Specifications Sheet. Qualified products are also listed at:

www.hp.com/go/energystar

Paper use

This product's optional automatic duplex feature (two-sided printing) and N-up printing (multiple pages printed on one page) capability can reduce paper usage and the resulting demands on natural resources.

Plastics

Plastic parts over 25 grams are marked according to international standards that enhance the ability to identify plastics for recycling purposes at the end of the product's life.

HP LaserJet print supplies

It's easy to return and recycle your HP LaserJet print cartridges after use—free of charge—with HP Planet Partners. Multilingual program information and instructions are included in every new HP LaserJet print cartridge and supplies package. You help reduce the toll on the environment further when you return multiple cartridges together rather than separately.

HP is committed to providing inventive, high-quality products and services that are environmentally sound, from product design and manufacturing to distribution, customer use and recycling. When you participate in the HP Planet Partners program, we ensure your HP LaserJet print cartridges are recycled properly, processing them to recover plastics and metals for new products and diverting millions of tons of waste from landfills. Since this cartridge is being recycled and used in new materials, it will not be returned to you. Thank you for being environmentally responsible!

 **NOTE:** Use the return label to return original HP LaserJet print cartridges only. Please do not use this label for HP inkjet cartridges, non-HP cartridges, refilled or remanufactured cartridges or warranty returns. For information about recycling your HP inkjet cartridges please go to <http://www.hp.com/recycle>.

Return and recycling instructions

United States and Puerto Rico

The enclosed label in the HP LaserJet toner cartridge box is for the return and recycling of one or more HP LaserJet print cartridges after use. Please follow the applicable instructions below.

Multiple returns (more than one cartridge)

1. Package each HP LaserJet print cartridge in its original box and bag.
2. Tape the boxes together using strapping or packaging tape. The package can weigh up to 31 kg (70 lb).
3. Use a single pre-paid shipping label.

OR

1. Use your own suitable box, or request a free bulk collection box from www.hp.com/recycle or 1-800-340-2445 (holds up to 31 kg (70 lb) of HP LaserJet print cartridges).
2. Use a single pre-paid shipping label.

Single returns

1. Package the HP LaserJet print cartridge in its original bag and box.
2. Place the shipping label on the front of the box.

Shipping

For all HP LaserJet print cartridge recycling returns, give the package to UPS during your next delivery or pickup, or take it to an authorized UPS drop-off center. For the location of your local UPS drop-off center, call 1-800-PICKUPS or visit www.ups.com. If you are returning via USPS label, give the package to a U.S. Postal Service carrier or drop off at a U.S. Postal Service Office. For more information, or to order additional labels or boxes for bulk returns, visit www.hp.com/recycle or call 1-800-340-2445. Requested UPS pickup will be charged normal pickup rates. Information subject to change without notice.

Residents of Alaska and Hawaii

Do not use the UPS label. Call 1-800-340-2445 for information and instructions. The U.S. Postal Service provides no-cost cartridge return transportation services under an arrangement with HP for Alaska and Hawaii.

Non-U.S. returns

To participate in HP Planet Partners return and recycling program, just follow the simple directions in the recycling guide (found inside the packaging of your new product supply item) or visit www.hp.com/recycle. Select your country/region for information on how to return your HP LaserJet printing supplies.

Paper

This product is capable of using recycled papers when the paper meets the guidelines outlined in the *HP LaserJet Printer Family Print Media Guide*. This product is suitable for the use of recycled paper according to EN12281:2002.

Material restrictions

This HP product does not contain added mercury.

This HP product contains a battery that might require special handling at end-of-life. The batteries contained in or supplied by Hewlett-Packard for this product include the following:

HP Color LaserJet Enterprise CP5520 Series Printer	
Type	Carbon monofluoride lithium
Weight	0.8 g
Location	On formatter board
User-removable	No



廢電池請回收

For recycling information, you can go to www.hp.com/recycle, or contact your local authorities or the Electronics Industries Alliance: www.eiae.org.

Disposal of waste equipment by users in private households in the European Union



This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Chemical substances

HP is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (Regulation EC No 1907/2006 of the European Parliament and the Council). A chemical information report for this product can be found at: www.hp.com/go/reach.

Material Safety Data Sheet (MSDS)

Material Safety Data Sheets (MSDS) for supplies containing chemical substances (for example, toner) can be obtained by accessing the HP Web site at www.hp.com/go/msds or www.hp.com/hpinfo/community/environment/productinfo/safety.

For more information

To obtain information about these environmental topics:

- Product environmental profile sheet for this and many related HP products
- HP's commitment to the environment
- HP's environmental management system
- HP's end-of-life product return and recycling program
- Material Safety Data Sheets

Visit www.hp.com/go/environment or www.hp.com/hpinfo/globalcitizenship/environment.

Declaration of conformity

Declaration of Conformity

according to ISO/IEC 17050-1 and EN 17050-1

Manufacturer's Name: Hewlett-Packard Company DoC#: BOISB-0905-00 rel.1.0

Manufacturer's Address: 11311 Chinden Boulevard
Boise, Idaho 83714-1021, USA

declares, that the product

Product Name: HP LaserJet Enterprise CP5525 Series
Including:
CE860A – 500-sheet paper tray
CE725A – 3x500-sheet paper tray and stand

Regulatory Model Number²⁾ BOISB-0905-00

Product Options: ALL

Print Cartridges: CE270A, CE271A, CE272A, CE273A

conforms to the following Product Specifications:

SAFETY: IEC 60950-1:2005 / EN60950-1: 2006
IEC 60825-1:2007 / EN 60825-1:2007 (Class 1 Laser/LED Product)
IEC 62311:2007 / EN62311:2008
GB4943-2001

EMC: CISPR22:2005 +A1 / EN55022:2006 +A1 - Class A^{1), 2)}
EN 61000-3-2:2006
EN 61000-3-3:1995 +A1 +A2
EN 55024:1998 +A1 +A2
FCC Title 47 CFR, Part 15 Class A²⁾ / ICES-003, Issue 4
GB9254-2008, GB17625.1-2003

Supplementary Information:

The product herewith complies with the requirements of the EMC Directive 2004/108/EC and the Low Voltage Directive 2006/95/EC, and carries the CE-Marking  accordingly.

This Device complies with Part 15 of the FCC Rules. Operation is subject to the following two Conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

1. The product was tested in a typical configuration with Hewlett-Packard Personal Computer Systems.
2. The product meets the requirements of EN55022 & CNS13438 Class A in which case the following applies: "Warning – This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures."
3. 3) For regulatory purposes, this product is assigned a Regulatory model number. This number should not be confused with the product name or the product number(s).

Boise, Idaho USA

October 2010

For regulatory topics only:

European Contact: Your Local Hewlett-Packard Sales and Service Office or Hewlett-Packard GmbH, Department HQ-TRE / Standards Europe, Herrenberger Strasse 140, D-71034, Böblingen (FAX: +49-7031-14-3143)
www.hp.com/go/certificates

USA Contact: Product Regulations Manager, Hewlett-Packard Company, PO Box 15, Mail Stop 160, Boise, Idaho 83707-0015 (Phone: 208-396-6000)

Safety statements

Laser safety

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration has implemented regulations for laser products manufactured since August 1, 1976. Compliance is mandatory for products marketed in the United States. The device is certified as a "Class 1" laser product under the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard according to the Radiation Control for Health and Safety Act of 1968. Since radiation emitted inside the device is completely confined within protective housings and external covers, the laser beam cannot escape during any phase of normal user operation.

-
- △ **WARNING!** Using controls, making adjustments, or performing procedures other than those specified in this user guide may result in exposure to hazardous radiation.
-

Canadian DOC regulations

Complies with Canadian EMC Class A requirements.

« Conforme à la classe A des normes canadiennes de compatibilité électromagnétique. « CEM ». »

VCCI statement (Japan)

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者は適切な対策を講ずるよう要求されることがあります。

VCCI-A

Power cord instructions

Make sure your power source is adequate for the product voltage rating. The voltage rating is on the product label. The product uses either 100-127 Vac or 220-240 Vac and 50/60 Hz.

Connect the power cord between the product and a grounded AC outlet.

-
- △ **CAUTION:** To prevent damage to the product, use only the power cord that is provided with the product.
-

Power cord statement (Japan)

製品には、同梱された電源コードをお使い下さい。
同梱された電源コードは、他の製品では使用出来ません。

EMC statement (China)

此为 A 级产品，在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对其干扰采取切实可行的措施。

EMC statement (Korea)

A급 기기 (업무용 방송통신기기)	이 기기는 업무용(A급)으로 전자파적합등록을 한 기기이오니 판매자 또는 사용자는 이점을 주의하시기 바라며, 가정 외의 지역에서 사용하는 것을 목적으로 합니다.
-----------------------	--

EMI statement (Taiwan)

警告使用者：
這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

Laser statement for Finland

Luokan 1 laserlaite

Klass 1 Laser Apparät

HP Color LaserJet CP5525n, CP5525dn, CP5525xh, laserkirjoitin on käyttäjän kannalta turvallinen luokan 1 laserlaite. Normaalisessa käytössä kirjoittimen suojakotelointi estää lasersäteiden pääsyn laitteen ulkopuolelle. Laitteen turvallisuusluokka on määritetty standardin EN 60825-1 (2007) mukaisesti.

VAROITUS !

Laitteen käyttäminen muulla kuin käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING !

Om apparaten används på annat sätt än i bruksanvisning specificerats, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

HUOLTO

HP Color LaserJet CP5525n, CP5525dn, CP5525xh - kirjoittimen sisällä ei ole käyttäjän huollettavissa olevia kohteita. Laitteen saa avata ja huoltaa ainoastaan sen huoltamiseen koulutettu henkilö. Tällaiseksi huoltotoimenpiteeksi ei katsota väriainekasetin vaihtamista, paperiradan puhdistusta tai muita käyttäjän käsikirjassa lueteltuja, käyttäjän tehtäväksi tarkoitettuja ylläpitotoimia, jotka voidaan suorittaa ilman erikoistyökaluja.

VARO !

Mikäli kirjoittimen suojakotelo avataan, olet alttiina näkymättömälle lasersäteilylle laitteen ollessa toiminnassa. Älä katso säteeseen.

VARNING !

Om laserprinterns skyddshölje öppnas då apparaten är i funktion, utsätts användaren för osynlig laserstrålning. Betrakta ej strålen.

Tiedot laitteessa käytettävän laserdiodin säteilyominaisuuksista: Aallonpituus 775-795 nm Teho 5 m W Luokan 3B laser.

GS statement (Germany)

Das Gerät ist nicht für die Benutzung im unmittelbaren Gesichtsfeld am Bildschirmarbeitsplatz vorgesehen. Um störende Reflexionen am Bildschirmarbeitsplatz zu vermeiden, darf dieses Produkt nicht im unmittelbaren Gesichtsfeld platziert werden.

Substances Table (China)

有毒有害物质表

根据中国电子信息产品污染控制管理办法的要求而出台

部件名称	有毒有害物质和元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
打印引擎	X	0	0	0	0	0
控制面板	0	0	0	0	0	0
塑料外壳	0	0	0	0	0	0
格式化板组件	X	0	0	0	0	0
碳粉盒	X	0	0	0	0	0

0609

0 : 表示在此部件所用的所有同类材料中, 所含的此有毒或有害物质均低于 SJ/T11363-2006 的限制要求。

X : 表示在此部件所用的所有同类材料中, 至少一种所含的此有毒或有害物质高于 SJ/T11363-2006 的限制要求。

注 : 引用的“环保使用期限”是根据在正常温度和湿度条件下操作使用产品而确定的。

Restriction on Hazardous Substances statement (Turkey)

Türkiye Cumhuriyeti: EEE Yönetmeliğine Uygundur

Index

A

- accessories
 - ordering 208
 - part numbers 209
- acoustic specifications 224
- address, printer
 - Macintosh,
 - troubleshooting 204
- Administration menu, control panel 15
- alerts, e-mail 51
- anticounterfeit supplies 97
- Attention light
 - locating 8
- automatic paper sensing 91

B

- Backup/Restore menu, control panel 32
- batteries included 229
- bins, output
 - capacity 84
 - locating 5
- blank pages
 - troubleshooting 199
- booklets
 - creating (Windows) 142
- both sides, printing on
 - turning on (Mac) 51
- browser requirements
 - HP embedded Web Server 163
- business graphics
 - printing 149
- buttons, control panel
 - locating 8

C

- cable, USB
 - part number 209
 - troubleshooting 199
- Calibrate/Cleaning menu, control panel 32
- Canadian DOC regulations 233
- canceling
 - print job 53
- canceling print jobs 114
- cartridges
 - non-HP 96
 - recycling 96, 227
 - storage 96
 - warranty 214
- cartridges, print
 - Macintosh status 57
 - part numbers 209
 - replacing 98
- cautions iii
- cleaning
 - paper path 195
 - product 175
- clock, real-time
 - setting 171
- color
 - adjusting 155
 - Edge Control 155
 - halftone options 155
 - HP ImageREt 3600 159
 - manage 153
 - managing 154
 - match 157
 - Neutral Grays 155
 - Pantone® matching 158
 - print color samples 158
 - print in grayscale 154
 - printed vs. monitor 157
 - printing in grayscale (Windows) 131
 - sample book matching 157
 - sRGB 160
 - using 153
- color options
 - HP EasyColor (Windows) 156
 - setting (Windows) 129
- Color tab settings 57
- Color usage, Macintosh 51
- configurations, models 2
- configuring
 - IP address 47, 64
- connectivity
 - solving problems 201
 - USB 61
- control panel
 - Administration menu 15
 - Backup/Restore menu 32
 - buttons 8
 - Calibrate/Cleaning menu 32
 - cleaning page, printing 175
 - Display Settings menu 23
 - General Settings menu 15
 - lights 8
 - locating 5
 - Manage Supplies menu 24
 - Manage Trays menu 25
 - messages, numerical list 106
 - messages, types of 181
 - Network Settings menu 26
 - Print Options menu 21
 - Print Settings menu 20
 - Reports menu 15
 - security 169
 - Service menu 33
 - settings 39, 50
 - Supplies menu 12
 - Trays menu 14

- Troubleshooting menu 30
- USB Firmware Upgrade menu 33
- control-panel menus
 - Retrieve From USB Settings 20
 - retrieve job from device memory 11
 - Retrieve Job From USB 10
 - Sign In 10
- controlling print jobs 91
- conventions, document iii
- copies
 - changing number of (Windows) 116
- counterfeit supplies 97
- cover pages
 - printing (Mac) 54
 - printing on different paper (Windows) 137
- covers, locating 5
- custom print settings (Windows) 116
- custom-size paper settings Macintosh 53
- customer support
 - HP Utility pages 51
 - online 221
- D**
- Data light
 - locating 8
- date, setting 171
- default gateway, setting 67
- defects, repeating 105, 198
- deleting
 - stored jobs 146
- device discovery 62
- device status
 - Macintosh Services tab 57
- Display Settings menu, control panel 23
- disposal, end-of-life 229
- document conventions iii
- double-sided printing (duplexing)
 - loading paper 85
 - Mac 56
 - turning on (Mac) 51
- drivers
 - changing paper types and sizes 74
 - changing settings (Mac) 50
 - changing settings (Windows) 40
 - presets (Mac) 54
 - settings 39
 - settings (Mac) 54
 - settings (Windows) 115
 - supported (Windows) 36
 - troubleshooting (Mac) 203
 - universal 38
- duplex alignment
 - setting 150
- duplex printing (double-sided)
 - loading paper 85
 - settings (Windows) 123
 - supported paper sizes 77
 - turning on (Mac) 51
- duplex settings, changing 69
- E**
- e-mail alerts 51
- economy settings 170
- Edge Control 155
- electrical specifications 224
- Embedded Web Server (EWS)
 - assigning passwords 168
 - features 163
 - network connection 163
- end-of-life disposal 229
- Enhanced I/O (EIO) card
 - installing 173
 - part number 209
- envelope sizes
 - supported 75
- envelopes
 - loading in Tray 1 80
 - loading orientation 85
- environment, specifications 224
- environmental features 3
- Environmental Product Stewardship Program 227
- EPS files, troubleshooting 205
- error messages
 - control panel 181
 - e-mail alerts 51
 - numerical list 106
 - types of 181
- errors
 - software 202
- European Union, waste disposal 229
- Explorer, versions supported
 - HP Embedded Web Server 163
- F**
- FCC regulations 226
- features 2
- File Upload, Macintosh 51
- Finnish laser safety statement 234
- firmware, downloading new 176
- first page
 - printing on different paper (Windows) 137
 - use different paper 54
- fonts
 - EPS files, troubleshooting 205
 - Upload Macintosh 51
- formatter
 - security 169
- forms
 - printing (Windows) 132
- fraud hotline 97
- fuser
 - jams 184
- fuser kit
 - part number 210
- G**
- gateway, setting default 67
- general configuration
 - HP Embedded Web Server 164
- General Settings menu, control panel 15
- glossy paper, supported 149
- graphical and text display, control panel 8
- graphics, business
 - printing 149
- grayscale
 - printing (Windows) 131
- grayscale printing 154
- H**
- hard disks
 - encrypted 168
 - ordering 209
 - part numbers 209

- help
 - printing options (Windows) 116
 - Home button 8
 - HP Customer Care 221
 - HP Easy Color
 - disabling 156
 - using 156
 - HP Embedded Web Server
 - general configuration 164
 - information pages 164
 - network settings 166
 - other links list 166
 - print tab 165
 - security settings 166
 - troubleshooting tools 165
 - HP Embedded Web Server (EWS)
 - features 163
 - network connection 163
 - HP fraud hotline 97
 - HP Jetdirect print server
 - installing 173
 - HP tough paper 149, 150
 - HP Universal Print Driver 38
 - HP Utility 51
 - HP Utility, Macintosh 51
 - HP Web Jetadmin 42, 167
 - HP-UX software 43
 - humidity requirements 224
- I**
- information pages
 - HP Embedded Web Server 164
 - printing or viewing 162
 - installing
 - EIO card 173
 - EIO cards 173
 - print cartridges 98
 - product on wired networks 64
 - product on wired networks, Mac 47
 - software, USB connections for Mac 46
 - software, wired networks 65
 - software, wired networks, Mac 48
 - toner collection unit 100
 - installing Mac software 46
- J**
- interface ports
 - locating 6
 - Internet Explorer, versions supported
 - HP Embedded Web Server 163
 - IP address
 - configuring 47, 64
 - Macintosh, troubleshooting 204
 - IP addressing 63
 - IP Security 168
 - IPsec 168
 - IPv4 address 67
 - IPv6 address 68
- J**
- jams
 - common causes of 182
 - fuser 184
 - locations 183
 - lower right door 186
 - output bin 190
 - recovery 191
 - Tray 1 187
 - Tray 2 189
 - Tray 3 189
 - Tray 4 189
 - Tray 4, 5, or 6 186
 - Tray 5 189
 - Tray 6 189
 - upper right door 184
 - Japanese VCCI statement 233
 - Jetadmin, HP Web 42, 167
 - Jetdirect print server
 - installing 173
 - job retention
 - setting options (Windows) 146
 - job storage
 - Macintosh settings 56
 - modes available 143
 - setting options (Windows) 146
 - jobs
 - Macintosh settings 51
 - jobs, print
 - storing permanent copies (Windows) 147
 - storing permanent private copies (Windows) 147
 - storing temporarily (Windows) 146
 - storing temporary copies (Windows) 147
 - jobs, stored
 - creating (Windows) 144
 - deleting 146
 - printing 145
 - receiving notification when printed (Windows) 148
 - setting user names (Windows) 148
 - specifying names (Windows) 148
- K**
- keys, control panel
 - locating 8
 - Korean EMC statement 234
- L**
- labels
 - printing (Windows) 134
 - landscape orientation
 - selecting, Windows 127
 - laser safety statements 233, 234
 - last page
 - printing on different paper (Windows) 137
 - letterhead
 - printing (Windows) 132
 - license, software 217
 - lights
 - control panel 8
 - link speed settings 69
 - Linux software 43
 - loading
 - Tray 1 80
 - Tray 2 81, 83
 - Tray 3 81, 83
 - Tray 4, 5, and 6 81, 83
 - loading paper 80
 - lower right door
 - jams 186
- M**
- Mac
 - changing paper types and sizes 53, 74
 - driver settings 50, 54
 - installing software 46, 48

- removing software 49
- software 51
- supported operating systems 46
- Macintosh
 - HP Utility 51
 - problems, troubleshooting 203
 - resize documents 53
 - support 221
 - USB card,
 - troubleshooting 205
- Macintosh driver settings
 - custom-size paper 53
 - Job Storage 56
 - Services tab 57
 - watermarks 55
- Manage Supplies menu, control panel 24
- Manage Trays menu, control panel 25
- managing network 66
- maps, printing 149
- marketing materials
 - printing 149
- material restrictions 229
- Material Safety Data Sheet (MSDS) 230
- media
 - custom-size, Macintosh settings 53
 - first page 54
 - pages per sheet 55
 - supported sizes 75
- memory
 - included 2, 51
 - supply errors 106
- memory chip, print cartridge
 - description 216
- memory DIMMs
 - security 169
- memory tag
 - locating 98
- menus, control panel
 - Administration 15
 - Backup/Restore 32
 - Calibrate/Cleaning 32
 - Display Settings 23
 - General Settings 15
 - Manage Supplies 24
 - Manage Trays 25
 - Network Settings 26
 - Print Options 21
 - Print Settings 20
 - Reports 15
 - Service 33
 - Supplies 12
 - Trays 14
 - Troubleshooting 30
 - USB Firmware Upgrade 33
- menus, control-panel
 - Retrieve From USB Settings 20
 - retrieve job from device
 - memory 11
 - Retrieve Job From USB 10
 - Sign In 10
- mercury-free product 229
- messages
 - e-mail alerts 51
 - numerical list 106
 - types of 181
- model number
 - location 7
- models, features 2
- multiple pages per sheet
 - printing (Windows) 126
- N**
- n-up printing
 - selecting (Windows) 126
- names, job
 - specifying (Windows) 148
- Netscape Navigator, versions
 - supported
 - HP embedded Web Server 163
- network
 - operating systems
 - supported 60
 - password, changing 66
 - password, setting 66
 - settings, changing 66
 - settings, viewing 66
- network settings
 - HP Embedded Web Server 166
- Network Settings menu, control panel 26
- networks
 - configuring 61
 - default gateway 67
 - device discovery 62
 - HP Web Jetadmin 167
 - installing EIO cards 173
 - IP address 63
 - IPv4 address 67
 - IPv6 address 68
 - print servers included 2
 - protocols supported 61
 - security 63
 - subnet mask 67
- networks, wired
 - installing product 64
 - installing product for Mac 47
- Neutral Grays 155
- non-HP supplies 96
- notes iii
- O**
- on/off button, locating 5
- online support 221
- opening printer drivers (Windows) 115
- operating environment
 - specifications 224
- operating systems
 - supported 36, 46
- operating systems, networks 60
- optimize speed or energy usage 170
- ordering
 - part numbers for 209
 - supplies and accessories 208
- orientation
 - paper, while loading 85
 - selecting, Windows 127
- other links list
 - HP Embedded Web Server 166
- output bin
 - jams 190
 - locating 5
- P**
- page sizes
 - scaling documents to fit (Windows) 139
- pages
 - blank 199
 - not printing 199
 - printing slowly 199

- pages per sheet
 - selecting (Windows) 126
 - paper
 - covers, using different paper 137
 - custom-size, Macintosh settings 53
 - first and last pages, using different paper 137
 - first page 54
 - load 80
 - loading orientation 85
 - pages per sheet 55
 - printing on preprinted letterhead or forms (Windows) 132
 - selecting 194
 - paper jams
 - common causes of 182
 - locations 183
 - paper path
 - cleaning 175
 - paper size
 - changing 74
 - paper sizes
 - selecting 121
 - selecting custom 121
 - supported 75
 - supported for duplex 77
 - paper types
 - changing 74
 - selecting 121
 - supported 78
 - paper, ordering 208
 - paper, special
 - printing (Windows) 134
 - part numbers
 - hard disks 209
 - list of 209
 - print cartridges 209
 - PCL drivers
 - universal 38
 - personal jobs
 - storing temporarily (Windows) 146
 - portrait orientation
 - selecting, Windows 127
 - ports
 - locating 6
 - troubleshooting Macintosh 205
 - PostScript Printer Description (PPD) files
 - included 51
 - power
 - consumption 224
 - troubleshooting 179
 - power connection
 - locating 6
 - power switch, locating 5
 - PPDs
 - included 51
 - preprinted paper
 - printing (Windows) 132
 - presets (Mac) 54
 - print cartridges
 - checking for damage 104
 - Macintosh status 57
 - memory chips 216
 - non-HP 96
 - part numbers 209
 - recycling 96, 227
 - replacing 98
 - storage 96
 - warranty 214
 - print job
 - canceling 53
 - print jobs
 - storing permanent copies (Windows) 147
 - storing permanent private copies (Windows) 147
 - storing temporarily (Windows) 146
 - storing temporary copies (Windows) 147
 - print media
 - loading in Tray 1 80
 - Print Options menu, control panel 21
 - print quality
 - improving 194
 - improving (Windows) 121
 - print server card
 - installing 173
 - Print Settings menu, control panel 20
 - print tab
 - HP Embedded Web Server 165
 - print tasks 113
 - printer drivers
 - choosing 197
 - printer drivers (Mac)
 - changing settings 50
 - settings 54
 - troubleshooting 203
 - printer drivers (Windows)
 - changing settings 40
 - settings 115
 - supported 36
 - printing
 - canceling jobs 114
 - from USB storage accessories 151
 - settings (Mac) 54
 - settings (Windows) 115
 - stored jobs 145
 - troubleshooting 199
 - printing on both sides
 - settings (Windows) 123
 - priority, settings 39, 50
 - private jobs
 - storing permanently (Windows) 147
 - problem-solving
 - e-mail alerts 51
 - messages, types of 181
 - Windows issues 203
 - product info 1
 - product specifications 223
 - proof and hold
 - selecting (Windows) 146
 - protocols, network 61
 - PS Emulation drivers 36
- Q**
- quick copy jobs
 - storing (Windows) 147
- R**
- Ready light
 - locating 8
 - real-time clock 171
 - recycling
 - HP printing supplies returns and environmental program 228
 - recycling supplies 96
 - regulatory statements
 - environmental product stewardship program 227

- removing Mac software 49
 - repeating defects,
 - troubleshooting 105, 198
 - Reports menu, control panel 15
 - resize documents
 - Macintosh 53
 - Windows 139
 - resolution
 - selecting (Windows) 121
 - retention, job
 - modes available 143
 - setting options (Windows) 146
 - Retrieve From USB Settings
 - menu 20
 - retrieve job from device memory
 - menu 11
 - Retrieve Job From USB menu 10
 - RGB settings 160
 - ruler, repetitive defect 105, 198
- S**
- safety statements 233, 234
 - SAPx software 43
 - scale documents
 - Macintosh 53
 - Windows 139
 - security settings
 - HP Embedded Web Server 166
 - security
 - encrypted hard disk 168
 - security features 63
 - security slot
 - locating 6
 - self help
 - accessing 178
 - serial number
 - location 7
 - Service menu, control panel 33
 - Services tab
 - Macintosh 57
 - settings
 - color 159
 - driver presets (Mac) 54
 - drivers 40
 - drivers (Mac) 50
 - priority 39, 50
 - shortcuts (Windows)
 - creating 118
 - using 116
 - Sign In menu 10
 - signs, printing 149
 - sleep delay
 - disabling 170
 - enabling 170
 - software
 - embedded Web server 42
 - HP Utility 51
 - HP Web Jetadmin 42
 - installing Mac 46
 - installing, USB connections for Mac 46
 - installing, wired networks 65
 - installing, wired networks, Mac 48
 - Mac 51
 - problems 202
 - settings 39, 50
 - software license
 - agreement 217
 - supported operating systems 36, 46
 - uninstalling for Windows 41
 - uninstalling Mac 49
 - Solaris software 43
 - solving
 - direct-connect problems 201
 - network problems 201
 - walk-up USB printing problems 200
 - special media
 - guidelines 72
 - special paper
 - guidelines 72
 - printing (Windows) 134
 - specifications
 - electrical and acoustic 224
 - operating environment 224
 - sRGB settings 160
 - status
 - HP Utility, Macintosh 51
 - Macintosh services tab 57
 - messages, types of 181
 - Stop button 8
 - stopping print jobs 114
 - storage, job
 - Macintosh settings 51, 56
 - modes available 143
 - setting options (Windows) 146
 - stored jobs
 - creating (Windows) 144
 - deleting 146
 - printing 145
 - receiving notification when printed (Windows) 148
 - security 169
 - setting user names (Windows) 148
 - specifying names (Windows) 148
 - storing
 - print cartridges 96
 - storing jobs
 - permanent copies (Windows) 147
 - permanent private copies (Windows) 147
 - proof and hold (Windows) 146
 - setting options (Windows) 146
 - temporary copies (Windows) 147
 - temporary personal jobs (Windows) 146
 - with Windows 144
 - subnet mask 67
 - supplies
 - counterfeit 97
 - memory errors 106
 - non-HP 96
 - ordering 208
 - part numbers 209
 - recycling 96, 227
 - status, viewing with HP Utility 51
 - Supplies menu, control panel 12
 - supplies status page
 - printing 105
 - supply-status, Services tab
 - Macintosh 57
 - support
 - HP Utility pages 51
 - online 221
 - supported paper 75
 - system requirements
 - HP Embedded Web Server 163

T

- Taiwan EMI statement 234
- TCP/IP
 - manually configuring IPv4 parameters 67
 - manually configuring IPv6 parameters 68
 - operating systems supported 60
- technical support
 - online 221
- temperature requirements 224
- time clock, setting real- 171
- tips iii
- toner cartridges. *See* print cartridges
- toner collection unit
 - replacing 100
- tough paper 149, 150
- transfer kit
 - part number 210
- transparencies
 - automatic sensing 91
 - printing (Windows) 134
- trapping 155
- Tray 1
 - automatic paper sensing 91
 - capacity 84
 - double-sided printing 56
 - jams 187
- Tray 2
 - capacity 85
 - jams 189
- trays
 - capacity 84
 - configure 90
 - double-sided printing 56
 - included 2
 - load 80
 - locating 5
 - Macintosh settings 51
 - paper orientation 85
 - selecting (Windows) 121
- Trays menu, control panel 14
- troubleshooting
 - blank pages 199
 - checklist 179
 - control panel messages 181
 - direct-connect problems 201
 - EPS files 205

- error messages, numerical list 106
- Macintosh problems 203
- network problems 201
- pages not printing 199
- pages printing slowly 199
- repeating defects 105, 198
- USB cables 199
- walk-up USB printing
 - problems 200
- Troubleshooting menu, control panel 30
- troubleshooting tools
 - HP Embedded Web Server 165
- two-sided printing
 - settings (Windows) 123
 - turning on (Mac) 51

U

- uninstalling Mac software 49
- uninstalling Windows software 41
- universal print driver 38
- UNIX software 43
- updates, downloading
 - product 176
- upper right door
 - jams 184
- USB configuration 61
- USB Firmware Upgrade menu, control panel 33
- USB port
 - troubleshooting 199
 - troubleshooting
 - Macintosh 205
- USB storage accessories
 - printing from 151
- user names
 - setting for stored jobs (Windows) 148

W

- wake time
 - changing 171
 - setting 171
- walk-up USB printing 151
- warnings iii
- warranty
 - customer self repair 220
 - license 217

- print cartridges 214
 - product 212
- watermarks
 - adding (Windows) 141
- Web browser requirements
 - HP Embedded Web Server 163
- Web sites
 - customer support 221
 - fraud reports 97
 - HP Web Jetadmin, downloading 167
 - Macintosh customer support 221
 - Material Safety Data Sheet (MSDS) 230
 - universal print driver 38
- Windows
 - changing paper types and sizes 74
 - driver settings 40
 - drivers supported 36
 - problem-solving issues 203
 - supported operating systems 36
 - universal print driver 38



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