HP Deskjet 5900 series

Hewlett-Packard Company notices

The information contained in this document is subject to change without notice.

All rights reserved. Reproduction, adaptation, or translation of this material is prohibited without prior written permission of Hewlett-Packard, except as allowed under copyright laws.

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

Acknowledgements

Apple, the Apple logo, ColorSync, the ColorSync logo, Finder, Mac, Macintosh, MacOS, Powerbook, Power Macintosh, and Quickdraw are trademarks of Apple Computer, Inc., registered in the U.S. and other countries.

TrueType is a U.S. trademark of Apple Computer, Inc.

Adobe, AdobeRGB, and Acrobat are trademarks of Adobe Systems Incorporated.

Copyright 2005 Hewlett-Packard Development Company, L.P.

Terms and conventions

The following terms and conventions are used in this user's guide.

Terms

The HP Deskjet printer is also referred to as the **HP printer** or **printer**.

Cautions and warnings

A **Caution** indicates possible damage to the HP Deskjet printer or to other equipment. For example:



Caution Do not touch the print cartridge ink nozzles or copper contacts. Touching these parts will result in clogs, ink failure, and bad electrical connections.

A **Warning** indicates possible harm to you or to others. For example:



Warning Keep both new and used print cartridges out of the reach of children.

Contents

1	Welcome	3
2	Special features	
3	Get started	5
	Printer features	
	Buttons and lights	6
	Paper trays	10
	Print cartridges	
	Ink-backup mode	14
	Automatic paper-type sensor	
4	Connect to the printer	
	USB	
	Networking	16
5	Print photos	
	Print borderless photos	
	Print photos with a border	
	HP Real Life technologies	
	Photo print cartridge	
	Color options	
	Advanced color management	
	Maximum dpi	
	Store and handle photo paper	
	Save money when printing photos	
6	Print photos from a digital camera	
	About PictBridge	
	PictBridge printing	
7	Print other documents	
	E-mail	
	Letters	
	Documents	
	Envelopes	
	Brochures	
	Greeting cards	
	Postcards	
	Transparencies	
	Labels	
	Index cards and other small media	
	Iron-on transfers	
8	Printing tips	
•	~ .	
	Select a print quality	40
	Select a print quality	
	Set the page order	40
	Set the page order Print multiple pages on a single sheet of paper	40 41
	Set the page order	40 41 41

9	Printer software	
	Print settings	
	Manage the printer (Mac OS X 10.3)	
	Manage the printer (Mac OS X 10.2)	
	View and change the status of a print job (Mac OS X 10.3)	
	View and change the status of a print job (Mac OS X 10.2)	
10	Maintenance	
	Install print cartridges	
	Set the auto-off feature	
	Align the print cartridges	.50
	Calibrate color	
	Automatically clean print cartridges	.50
	Print a test page	
	View estimated ink levels	.51
	Maintain the printer body	51
	Remove ink from your skin and clothing	51
	Manually clean print cartridges	52
	Maintain print cartridges	53
	HP Printer Utility	
11	Troubleshooting	55
	Printer does not print	55
	Paper jam	56
	Paper problems	57
	Paper mismatch	58
	Printer is stalled	59
	Print cartridge problems	. 59
	Photos do not print correctly	61
	PictBridge problems	63
	Print quality is poor	.65
	Document is misprinted	.67
	Problems with borderless documents	.67
	Error messages	72
	Printer lights are on or flashing	
	Document prints slowly	
	If you continue to have problems	
12	Supplies	
	Paper	
	USB cables	
13	Specifications	
	Printer specifications	
14	Environmental information	
	Environmental statement	
	Print cartridge recovery	
Ind	· ·	

1 Welcome

To find an answer to a question, select one of the following topics:



- Special features
- Get started
- Connect to the printer
- Print photos
- Print photos from a digital camera
- Print other documents
- Printing tips
- Printer software
- Maintenance
- Troubleshooting
- Supplies
- Specifications
- Environmental information

2 Special features

Congratulations! You have purchased an HP Deskjet printer that is equipped with several exciting features:

- **Borderless printing**: Use the entire page surface when printing photos and brochures with the borderless printing feature.
- **Six-ink upgradeable printing**: Enhance photo printing with a photo print cartridge (purchased separately).
- **Ink-backup mode**: Use ink-backup mode to continue printing with one print cartridge when the other print cartridge has run out of ink.
- Printing from a digital camera: Print photos directly from a digital camera using the PictBridge port.
- Panoramic printing: Print panoramic photos with borders or without borders.
- Real Life technologies: HP Real Life technologies make it easy for you to get better photos. Automatic red-eye removal and adaptive lighting to enhance detail in shadows are just a few of the many technologies included.
- Print Cartridge Status display: Know when a print cartridge is low on ink by viewing the Print Cartridge Status lights.
- Automatic paper-type sensor: Use the auto paper-type sensor to optimize print quality for various papers.
- HP Vivera Inks deliver true-to-life photo quality and exceptional fade resistance resulting in vivid colors that last. HP Vivera Inks are specially-formulated and scientifically tested for quality, purity and fade resistance.

3 Get started

- Printer features
- Buttons and lights
- Paper trays
- Print cartridges
- Ink-backup mode
- Automatic paper-type sensor

Printer features

The printer has several features to make printing easier and more efficient.



- 1 Buttons and lights
- 2 Print Cartridge Status lights
- 3 PictBridge port
- 4 Paper trays



- 1 Automatic paper-type sensor
- 2 Print cartridges
- 3 Ink-backup mode



1 USB port

Buttons and lights

Use the printer buttons to turn the printer on and off, cancel a print job, and restart a job. The printer lights give you visual cues about the status of the printer.



- 1 Power button and light
- 2 Print Cartridge Status lights
- 3 PictBridge lights
- 4 Resume button and light
- 5 Print Cancel button

Power button and light

Use the Power button to turn the printer on and off. It can take a few seconds for the printer to turn on after you press the Power button.



1 Power button

The Power light flashes when the printer is processing.



Caution Always use the Power button to turn the printer on and off. Using a power strip, surge protector, or a wall-mounted switch to turn the printer on and off might cause printer failure.

Print Cartridge Status lights

The Print Cartridge Status lights indicate the status of the print cartridges. The lights are located in the center of the control panel.



1 Print Cartridge Status lights



- 1. The left status light represents the tri-color print cartridge, which is installed in the left side of the print cartridge cradle.
 - The light is on and solid when the tri-color print cartridge is low on ink.
 - The light flashes when the tri-color print cartridge needs to be serviced.
- 2. The right status light represents the black or the photo print cartridge. One of these print cartridges is installed in the right side of the print cartridge cradle.
 - The light is on and solid when the black or photo print cartridge is low on ink.
 - The light flashes when the black or photo print cartridge needs to be serviced.

PictBridge lights

Plug a PictBridge-enabled camera into the printer PictBridge port using a digital camera USB cable to print digital photographs.



- 1 Connection light
- 2 Error light

When the camera is connected correctly, the green Connection light is illuminated. The printer Power light flashes and the Connection light remains lit solid when printing from the camera. If the camera is not PictBridge-compatible or is not in PictBridge mode, the amber Error light flashes.

Print Cancel and Resume buttons

The printer also has a Print Cancel button and a Resume button and light.



- 1 Print Cancel button
- 2 Resume button and light

Pressing the Print Cancel button cancels the current print job.

The Resume light flashes when an action is required, such as loading paper or clearing a paper jam. When the problem is solved, press the Resume button to continue printing.

Paper trays

For information about the paper trays, select one of these topics.

Unfold the paper trays

Follow these steps to unfold the paper trays:

1. Lower the In tray.



2. Lower the Out tray.



3. Pull out the Out-tray extension.



In tray

The In tray holds paper or other media.



1 In tray

Paper guide

Print on different sizes of media by sliding the paper guide to the right or to the left.



Out tray

Printed pages are deposited in the Out tray.



1 Out tray

Raise the Out tray to load paper or other media. Lower the Out tray before printing.

To prevent paper from falling out of the Out tray, fully pull out the Out-tray extension. If you are printing in the Fast draft mode, unfold the Out-tray extension stop.



1	Out-tray extension
2	Out-tray extension stop

Fold the paper trays

Follow these steps to fold the paper trays:

- 1. Remove paper or other media from the paper trays.
- 2. If the Out-tray extension stop is raised, lower it and then push it into the Out-tray extension.



3. Push the Out-tray extension into the Out tray.



4. Raise the Out tray.



5. Raise the In tray.



Print cartridges

Three print cartridges can be used with the printer.



- 1 Black print cartridge
- 2 Tri-color print cartridge
- 3 Photo print cartridge

Use print cartridges

The print cartridges can be used in the following ways:

- Everyday printing: Use the black and tri-color print cartridges for everyday print jobs.
- Quality color photos: For more vibrant colors when printing color photographs
 or other special documents, remove the black print cartridge and install a photo
 print cartridge. The photo print cartridge, in combination with the tri-color print
 cartridge, provides you with virtually grain-free photos.

Replace print cartridges

When buying print cartridges, look for the print cartridge selection number.

You can find the selection number in three places:

 Selection number label: Look at the label on the print cartridge that you are replacing.



1 Selection number label

- Printer documentation: For a list of print cartridge selection numbers, see the reference guide that came with the printer.
- HP Printer Utility: Open the HP Printer Utility, and then select the Supplies Status pane.

If a print cartridge runs out of ink, the printer can operate in ink-backup mode.

For information about installing a replacement print cartridge, see the print cartridge installation page.

Ink-backup mode

Use the ink-backup mode to operate the printer with only one print cartridge. The ink-backup mode is initiated when a print cartridge is removed from the print cartridge cradle.

Ink-backup mode output

Printing in ink-backup mode slows the printer and affects the quality of printouts.

Installed print cartridge	Result	
Black print cartridge	Colors print as grayscale.	
Tri-color print cartridge	Colors print but black is grayed and is not a true black.	
Photo print cartridge	Colors print as grayscale.	



Note HP does not recommend using the photo print cartridge for ink-backup mode.

Exit ink-backup mode

Install two print cartridges in the printer to exit ink-backup mode.

For instructions about installing a print cartridge, see the print cartridge installation page.

Automatic paper-type sensor

The HP automatic paper-type sensor detects the paper in your printer, and then selects optimal print settings for that media. The result is fewer mouse clicks to start printing, and automatic optimal print quality on plain, photo, brochure and other high-quality papers. The sensor also checks the paper width to ensure it matches the size selected in the printer software. If the widths are different, the printer warns you so that you do not waste a sheet of paper.

When the auto paper-type sensor is engaged, the printer uses a red optical sensor light to scan the first page of a document and determine the best paper-type setting and check paper width. If the paper width is different from the printer software, the printer warns you and gives you the opportunity to stop printing. If the width matches, the printer determines the paper-type setting and the page is printed.

For more information about using the automatic paper-type setting, see Select a paper type.



Caution Do not place the printer in direct sunlight. Direct sunlight can interfere with the auto paper-type sensor.

4 Connect to the printer

- USB
- Networking

USB

The printer connects to the computer with a universal serial bus (USB) cable.



For instructions about connecting the printer with a USB cable, see the setup poster that came with the printer.



Note A USB cable might not be packaged with your printer.

Networking

The printer can be connected to a network through a computer or by using an HP Jetdirect Print Server

Connect through a networked computer

The printer can be connected directly to a computer on a network and then shared with other computers on the network.

For instructions about sharing the printer on a network, use the printer software CD and follow the onscreen network setup instructions.

Use an HP Jetdirect print server

The printer can be connected to a network by using an HP Jetdirect print server.

For instructions about sharing the printer on a network, open **System Preferences** and then double-click **Sharing**.



Note HP Jetdirect print servers are not available in all countries/regions.

5 Print photos

The printer software offers several features that make printing digital photos easier and improve photo quality.

Learn how to perform the following tasks:

- Print a borderless photo.
- Print a photo with a border.
- Use HP Real Life technologies to touch up photos.
- Use the photo print cartridge for great colors and virtually grain-free photos.
- Achieve the highest printing resolution with maximum dpi.
- Improve printed colors with the following software options:
 - Color options
 - Advanced color management
- Prevent photo paper from curling by following the photo paper storage and handling guidelines.
- Use HP Everyday Photo Paper to save money and ink when printing photos.

Print borderless photos

Use borderless printing to print to the edges of certain paper types and to print on a range of paper sizes—from 4×6 inch photo paper to a 210 x 594 mm (8.5 x 23.4 inch) custom photo size.

Guidelines

- For high-quality results, use a photo print cartridge in combination with the tricolor print cartridge.
- Do not print borderless photos in ink-backup mode. Always have two print cartridges installed in the printer.
- Open the file in a software program such as Adobe Photoshop and assign the photo size. Ensure that the size corresponds to the paper size on which you want to print the photo.
- For maximum fade resistance, use HP Premium Plus Photo Paper.
- Verify that the photo paper that you are using is flat. For information about preventing photo paper from curling, see the photo paper storage instructions.
- Do not exceed the In tray capacity: 30 sheets of photo paper.

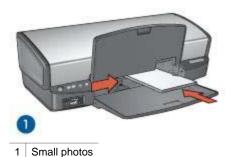
Prepare to print

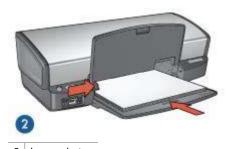
Show me how to load photo paper.

- 1. Raise the Out tray.
- Slide the paper guide all the way to the left.
- 3. Verify that the photo paper is flat.
- 4. Place the photo paper in the In tray, with the side to be printed on facing down.

If you are using photo paper with a tear-off tab, verify that the tab is pointing away from the printer.

5. Slide the paper guide firmly against the edge of the paper stack.





2 Large photos



Note Some panoramic paper sizes might extend beyond the edge of the In tray.

6. Lower the Out tray.

Print

- 1. Open the Page Setup dialog box.
- Choose the appropriate borderless paper size in the Paper Size menu, and then click OK.
- 3. Open the Print dialog box.
- 4. Select the **Paper Type/Quality** pane, and then select the following settings:
 - Paper Type: The appropriate photo paper type
 - Quality: Best or Maximum dpi
- 5. Select the **Real Life Digital Photography** pane, and then set the HP Real Life technologies as appropriate.
- Select any other print settings that you want, and then click **Print**.
 If you printed on photo paper that has a tear-off tab, remove the tab to make the document completely borderless.



Print photos with a border

Follow these instructions to print photos with a white border.

Guidelines

- For high-quality results, use a photo print cartridge in combination with the tricolor print cartridge.
- For maximum fade resistance, use HP Premium Plus Photo Paper.
- Open the file in a software program such as Adobe Photoshop and assign the photo size. Ensure that the size corresponds to the paper size on which you want to print the photo.
- Verify that the photo paper that you are using is flat. For information about preventing photo paper from curling, see the photo paper storage instructions.
- Do not exceed the In tray capacity: 30 sheets of photo paper.

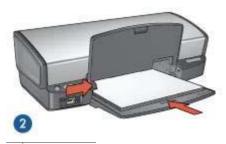
Prepare to print

Show me how to load photo paper.

- 1. Raise the Out tray.
- 2. Slide the paper guide all the way to the left.
- 3. Verify that the photo paper is flat.
- 4. Place the photo paper in the In tray with the side to be printed on facing down.
- 5. Slide the paper guide firmly against the edge of the paper stack.



1 Small photos



2 Large photos



Note Some panoramic paper sizes might extend beyond the edge of the In trav.

Lower the Out tray.

Print

- 1. Open the Page Setup dialog box, and then select the following settings:
 - Paper Size: The appropriate paper size
 - Orientation: The appropriate orientation
- 2. Click OK.
- 3. Open the Print dialog box.
- Select the Paper Type/Quality pane, and then select the following settings:
 - Paper Type: The appropriate photo paper type
 - Quality: Best or Maximum dpi
- Select the Real Life Digital Photography pane, and then set the HP Real Life technologies as appropriate.
- 6. Select any other print settings that you want, and then click **Print**.

HP Real Life technologies

HP Real Life technologies make it easy for you to get better photos. Automatic redeye removal and adaptive lighting to enhance detail in shadows are just a few of the technologies included.

Open HP Real Life technologies

Follow these steps to open HP Digital Photography Real Life technologies:

- 1. Open the Print dialog box.
- 2. Select the Real Life Digital Photography pane.

Use HP Real Life technologies

Choose from the following items:

- Summary: View all the current settings at a glance.
- Auto Red-eye Removal: Click On to automatically remove or reduce red-eye in the photograph.
- Adaptive Lighting: Adjust the exposure in dark areas of photos to bring out detail. Click Auto to allow the printer software to automatically balance lightness and darkness.
- Photo Brightening: Automatically enhance colors and contrast for washed-out photos. Click Auto to allow the printer software to intelligently brighten your photo, focusing only on areas that need adjustment.
- SmartFocus: Enhance the image quality and clarity of low resolution images such as those downloaded from the Internet. Click On to allow the printer software to sharpen details in the image automatically.
- **Smoothing**: Soften an image. Click **Auto** to allow the printer software to set the level of smoothing for the image automatically.
- Sharpness: Adjust the image sharpness to your preference. Click Auto to allow the printer software to set the level of sharpening for the image automatically.

Photo print cartridge

The photo print cartridge, when used in conjunction with the tri-color print cartridge, provides virtually grain-free photos. It offers exceptional fade resistance for photos that are printed on HP Premium Plus Photo Paper.



The photo print cartridge can be purchased separately if it is not included with your printer.

Install the photo print cartridge

To install the photo print cartridge, remove the black print cartridge from the printer, and then install the photo print cartridge in the right side of the print cartridge cradle.



Note To protect a print cartridge when it is not in the printer, follow these storage guidelines.

Use the photo print cartridge

- 1. Open the Print dialog box.
- 2. Select the Paper Type/Quality pane.
- 3. Choose the appropriate photo paper type in the **Paper Type** menu.
- 4. In the Quality menu, select Normal, Best, or Maximum dpi.
- 5. Select any other print settings that you want, and then click **Print**.

Store the photo print cartridge

Follow these guidelines when storing the photo print cartridge.

Color options

Use color options to adjust color levels in your photos and change color brightness, tone, and saturation.

When you adjust color options, the printed colors in your photos differ from the colors that appear on your computer monitor.

Follow these steps to set color options:

- Open the Print dialog box.
- 2. Select the Paper Type/Quality pane.
- 3. Verify that ColorSmart/sRGB is selected in the Color pull-down menu.
- 4. Click the Color Options tab.
- Adjust the Saturation, Brightness, and Color Tone sliders to affect how overall colors are printed.
- Adjust the Cyan, Magenta, Yellow, and Black sliders to specify the level of each color that is used in printing.
- 7. Select any other print settings that you want, and then click **Print**.

Advanced color management

Color management defines the range of colors that can be printed. The printer software translates the colors of your document from their current color settings to the color management option that is selected.

Follow these steps to select a color management option:

- 1. Open the Print dialog box.
- 2. Select the **Paper Type/Quality** pane.
- 3. In the Color pull-down menu, click one of the following options:
 - ColorSmart/sRGB: ColorSmart/sRGB is an appropriate option for most print jobs. It is used for most Web-based documents and current imaging devices.
 - ColorSync: This option allows the printer driver to manage the color of the document.
 - Grayscale: Use this option to print colors as grayscale.

- Application Managed Colors: Use this option to allow the program from which you are printing to manage the color of the photo.
- AdobeRGB: Use the AdobeRGB setting for documents or photos that were originally created in the AdobeRGB color space. When using AdobeRGB to print from a professional software program, turn off color management in the program and allow the printer software to manage the color space.
- 4. Select any other print settings that you want, and then click **Print**.

Maximum dpi

The maximum dpi print quality setting offers 4800 x 1200 optimized dots per inch (dpi) printing.

The 4800×1200 optimized dpi is the highest quality resolution for this printer. When 4800×1200 optimized dpi is selected in the printer software, the tri-color print cartridge prints in the 4800×1200 optimized dpi mode (up to 4800×1200 optimized dpi color and 1200-input dpi).

If a photo print cartridge is also installed, the print quality is enhanced. A photo print cartridge can be purchased separately if it is not included with the printer.



Note Using maximum dpi increases the printing time and requires a large amount of disk space.

Follow these steps to print in the 4800 x 1200 optimized dpi mode:

- 1. Open the Print dialog box.
- 2. Select the Paper Type/Quality pane.
- 3. In the **Paper Type** pull-down menu, click **Photo Paper**, and then click the appropriate photo paper type.
- 4. In the Quality pull-down menu, click Maximum dpi.
- 5. Select any other print settings that you want, and then click **Print**.



Note Use an HP premium photo paper when printing in the maximum dpi mode to enhance color matching and detail in the photo.

Store and handle photo paper

Follow these instructions to maintain the quality of HP brand photo paper.

Storage

- Keep unused photo paper in a plastic bag. Store the packaged photo paper on a flat surface in a cool place.
- When you are ready to print, remove only the paper that you plan to use immediately from the plastic bag. When you have finished printing, return any unused photo paper to the plastic bag.
- Do not leave unused photo paper in the paper tray. The paper might start to curl, which can reduce the quality of your photos.

Handling

- Always hold photo paper by its edges. Fingerprints on photo paper can reduce print quality.
- If the corners of the photo paper curl more than 10 mm (0.4 inch), flatten the paper by putting it in the storage bag, and then gently bending it in the opposite direction of the curl until the paper lies flat.

Photo paper should be flat before it is printed on.

Save money when printing photos

To save money and ink when printing photos, use HP Everyday Photo Paper and set the print quality to **Normal**.

HP Everyday Photo Paper is designed to create quality photos with less ink.



Note For higher-quality photos, use HP Premium Plus Photo Paper and set the print quality to **Best** or Maximum dpi.

6 Print photos from a digital camera

Learn how to print photos directly from a digital camera:

- About PictBridge
- PictBridge printing

About PictBridge

With a PictBridge-enabled camera, you do not need a computer to print digital photographs. Just plug the camera into the printer's PictBridge port.



Note Do not plug other USB devices into the PictBridge port.





Note When two PictBridge devices communicate, they provide only the services that they have in common. For example, some cameras might allow photos formatted as either TIFFs or JPEGs to be printed over a PictBridge connection, but, since the printer does not support TIFFs over a PictBridge connection, only JPEGs can be printed.

When a camera is connected to the PictBridge port, the default printer settings will print a 4×6 inch borderless photo with portrait orientation. For detailed information on printing from the camera, consult the documentation that came with your camera.

PictBridge printing

In order to print photos directly from a digital camera, you need the following items:

- A PictBridge-compatible camera
- A digital camera USB cable



Check the documentation that came with your camera to ensure that your camera supports PictBridge.

Follow these steps to print photos from a PictBridge-compatible camera:

- Load photo paper into the printer.
 For instructions about loading photo paper, click one of the following options:
 - Print borderless photos
 - Print photos with a border
- 2. Connect your camera to the PictBridge port on the front of the printer using the USB cable supplied with your camera.
- Turn on your camera, and then set it to PictBridge mode.
 If you do not know how to set the camera to PictBridge mode, see the documentation that came with the camera.



Note When the camera is connected correctly, the Connection light is illuminated. The Connection light blinks green when printing from the camera. If the camera is not PictBridge-compatible or is not in PictBridge mode, the Error light flashes.



- 1 Connection light
- 2 Error light

After you successfully connect the camera to the printer, you can print your photos. Be sure the size of the paper loaded in the printer matches the setting on your

camera. Refer to the documentation that came with your camera for detailed information on printing from the camera.

7 Print other documents



Printing tips: Minimize your cost and effort while maximizing the quality of your printouts with printing tips.

Printer software: Learn about the printer software.

E-mail

To print e-mail, use the Paper Type/Quality pane in the Print dialog box to select the paper type and print quality.

Guidelines

Do not exceed the In tray capacity: 100 sheets of plain paper.

Prepare to print

- 1. Raise the Out tray.
- 2. Slide the paper guide all the way to the left.
- 3. Place plain paper in the In tray, pushing the paper into the printer until it stops.
- 4. Slide the paper guide firmly against the edge of the paper stack.



5. Lower the Out tray.

Print

- If necessary, open the Page Setup dialog box and set the paper size, scaling, and orientation options.
- 2. Open the Print dialog box.
- Select the Paper Type/Quality pane.
- 4. In the Paper Type pull-down menu, click Automatic or Plain Paper.
- 5. Select any other print settings that you want, and then click **Print**.

Letters

To print letters, use the Paper Type/Quality pane in the Print dialog box to select the paper type and print quality.

Guidelines

- For help printing on an envelope, see envelopes.
- Do not exceed the In tray capacity: 100 sheets of paper.

Prepare to print

- 1. Raise the Out tray.
- 2. Slide the paper guide all the way to the left.
- 3. Place the paper in the In tray, pushing the paper into the printer until it stops.



Note If you are using letterhead paper, verify that the letterhead is facing down and toward the interior of the printer.

4. Slide the paper guide firmly against the edge of the paper stack.



5. Lower the Out tray.

Print

- If necessary, open the Page Setup dialog box and set the paper size, scaling, and orientation options.
- 2. Open the Print dialog box.
- 3. Select the **Paper Type/Quality** pane.
- 4. In the Paper Type pull-down menu, click Automatic or Plain Paper.
- 5. In the **Quality** pull-down menu, select the appropriate print quality.
- 6. Select any other print settings that you want, and then click **Print**.

Documents

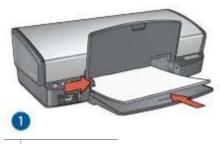
To print documents, use the Paper Type/Quality pane in the Print dialog box to select the paper type and print quality.

Guidelines

Do not exceed the In tray capacity: 100 sheets of paper.

Prepare to print

- 1. Raise the Out tray.
- 2. Slide the paper guide all the way to the left.
- 3. Place plain paper in the In tray, pushing the paper into the printer until it stops.
- 4. Slide the paper guide firmly against the edge of the paper stack.



1 Letter or A4 paper



- 2 Legal paper (extends over the edge of the In tray)
- Lower the Out tray.

Print

- 1. If necessary, open the Page Setup dialog box and set the paper size, scaling, and orientation options.
- 2. Open the Print dialog box.
- 3. Select the Paper Type/Quality pane.
- 4. In the Paper Type pull-down menu, click Automatic or Plain Paper.
- 5. In the **Quality** pull-down menu, select the appropriate print quality.
- 6. Select any other print settings that you want, and then click **Print**.

Envelopes

To print envelopes, use the Paper Type/Quality pane in the Print dialog box to select the paper type and print quality. You can print a single envelope or multiple envelopes.

Guidelines

- Avoid using envelopes that have the following features:
 - Clasps or windows
 - Thick, irregular, or curled edges
 - Shiny or embossed coatings
 - Wrinkles, tears, or other damage
- Align the envelope edges before inserting the envelopes in the In tray.
- Do not exceed the In tray capacity: 10 envelopes.

Prepare to print

- 1. Raise the Out tray, and then remove all paper from the In tray.
- 2. Slide the paper guide all the way to the left.
- Place the envelopes in the In tray, as far to the right as possible.The side to be printed on should face down and the flap should be on the left.
- 4. Push the envelopes into the printer until they stop.
- 5. Slide the paper guide firmly against the edge of the envelope stack.



6. Lower the Out tray.

Print

- If necessary, open the Page Setup dialog box and set the paper size, scaling, and orientation options.
- 2. Open the Print dialog box.
- 3. Select the **Paper Type/Quality** pane.
- 4. In the Paper Type pull-down menu, click Automatic or Plain Paper.
- 5. Select any other print settings that you want, and then click **Print**.

Brochures

To print a brochure, use the Paper Type/Quality pane in the Print dialog box to select the paper type and print quality. For great results, use HP brochure paper.

Guidelines

- Do not print borderless documents in ink-backup mode. Always have two print cartridges installed in the printer.
- Open the file in a software program and assign the brochure size. Ensure that the size corresponds to the paper size on which you want to print the brochure.
- Do not exceed the In tray capacity: 20 sheets of brochure paper.

Prepare to print

- 1. Raise the Out tray.
- 2. Slide the paper guide all the way to the left.
- 3. Place brochure paper in the In tray, pushing the paper into the printer until it stops.
- 4. Slide the paper guide firmly against the edge of the paper stack.



5. Lower the Out tray.

Print borderless brochures

- Open the Page Setup dialog box.
- 2. Click the appropriate borderless paper size in the **Paper Size** menu.
- 3. Click OK.
- 4. Open the Print dialog box.
- 5. Select the **Paper Type/Quality** pane, and then specify the following settings:
 - Paper Type: The appropriate brochure paper type
 - Quality: Normal or Best
- 6. Select any other print settings that you want, and then click **Print**.

Print brochures with borders

- Open the Page Setup dialog box.
- 2. Click the appropriate paper size in the **Paper Size** menu.
- 3. Click OK.
- Open the Print dialog box.
- 5. Select the **Paper Type/Quality** pane, and then specify the following settings:
 - Paper Type: The appropriate brochure paper type
 - Quality: Normal or Best
- 6. Select any other print settings that you want, and then click **Print**.

Greeting cards

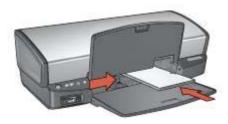
To print greeting cards, use the Paper Type/Quality pane in the Print dialog box to select the paper type and print quality. For great results, use HP Greeting Card Paper.

Guidelines

- Unfold prefolded cards, and then place them in the In tray.
- Do not exceed the In tray capacity: 20 cards.

Prepare to print

- 1. Raise the Out tray, and then remove all paper from the In tray.
- 2. Slide the paper guide all the way to the left.
- 3. Fan the edges of the greeting cards to separate them, and then align the edges.
- 4. Place the greeting cards in the In tray, with the side to be printed on facing down.
- 5. Push the cards into the printer until they stop.
- 6. Slide the paper guide firmly against the edge of the cards.



7. Lower the Out tray.

Print

- Open the Page Setup dialog box, and then select the following settings:
 - Paper Size: The appropriate card size
 - Orientation: The appropriate orientation
- Click OK.
- 3. Open the Print dialog box.
- 4. Select the **Paper Type/Quality** pane, and then specify the following settings:
 - Paper Type: The appropriate card type
 - Quality: Normal or Best
- 5. Select any other print settings that you want, and then click **Print**.

Postcards

To print postcards, use the Paper Type/Quality pane in the Print dialog box to select the paper type and print quality.

Guidelines

- Use only cards that meet the paper size specifications for the printer. For specifications, see the reference guide that came with the printer.
- Do not exceed the In tray capacity: 30 cards.

Prepare to print

- 1. Raise the Out tray.
- 2. Slide the paper guide all the way to the left.
- Place the cards in the In tray, as far to the right as possible.
 The side to be printed on should face down and the short edge should point toward the printer.
- 4. Push the cards into the printer until they stop.
- 5. Slide the paper guide firmly against the edge of the cards.



Print

- Open the Page Setup dialog box, and then select the following settings:
 - Paper Size: The appropriate card size
 - Orientation: The appropriate orientation



Note To print a borderless card, select the borderless photo size that matches the card size.

- Click OK.
- 3. Open the Print dialog box.
- 4. Select the **Paper Type/Quality** pane, and then specify the following settings:
 - Paper Type: The appropriate card type
 - Quality: Normal, Best, or Maximum dpi
- 5. If you want to use them, set the HP Real Life technology options.
- 6. Select any other print settings that you want, and then click **Print**.



Note If an out-of-paper message appears, verify that the cards are positioned correctly in the paper tray.

Transparencies

To print transparencies, use the Paper Type/Quality pane in the Print dialog box to select the paper type and print quality. For great results, use HP Premium Inkjet Transparency Film.

Guidelines

Do not exceed the In tray capacity: 30 transparencies.

Prepare to print

- 1. Raise the Out tray, and then remove all paper from the In tray.
- Slide the paper guide all the way to the left.
- 3. Place the transparencies in the In tray.

The side to be printed on should face down and the adhesive strip should face up and toward the printer.



- 4. Carefully push the transparencies into the printer until they stop, so that none of the adhesive strips catch on one another.
- 5. Slide the paper guide firmly against the edge of the transparencies.
- 6. Lower the Out tray.

Print

- 1. If necessary, open the Page Setup dialog box and set the paper size, scaling, and orientation options.
- 2. Open the Print dialog box.
- 3. Select the **Paper Type/Quality** pane, and then specify the following settings:
 - Paper Type: The appropriate transparency type
 - Quality: Normal or Best
- 4. Select any other print settings that you want, and then click **Print**.

Labels

To print labels, use the Paper Type/Quality pane in the Print dialog box to select the paper type and print quality. For great results, use HP Address Labels.

Guidelines

- Use only paper, plastic, or clear labels that are designed specifically for inkjet printers.
- Use only full sheets of labels.
- Avoid using labels that are sticky, wrinkled, or pulling away from the protective backing.
- Do not exceed the In tray capacity: 20 sheets of labels (use only Letter or A4-size sheets).

Prepare to print

- 1. Raise the Out tray, and then remove all paper from the In tray.
- 2. Slide the paper guide all the way to the left.
- 3. Fan the edges of the label sheets to separate them, and then align the edges.
- 4. Place the label sheets in the In tray with the label side facing down.
- 5. Push the sheets into the printer until they stop.
- 6. Slide the paper guide firmly against the edge of the sheets.



Print

- Open the Page Setup dialog box, and then select the following settings:
 - Paper Size: A4 or US Letter
 - Orientation: The appropriate orientation
- 2. Click OK.
- 3. Open the Print dialog box.
- 4. Select the Paper Type/Quality pane.
- 5. In the Paper Type pull-down menu, click Automatic or Plain Paper.
- 6. Select any other print settings that you want, and then click **Print**.

Index cards and other small media

To print index cards and other small media, use the Paper Type/Quality pane in the Print dialog box to select the paper type and print quality.

Guidelines

- Use only cards and small media that meet the paper size specifications for the printer. For specifications, see the reference guide that came with the printer.
- Do not exceed the In tray capacity: 30 cards.

Prepare to print

- 1. Raise the Out tray, and then remove all paper from the In tray.
- Slide the paper guide all the way to the left.
- Place the cards in the In tray, as far to the right as possible.
 The side to be printed on should face down and the short edge should point toward the printer.
- 4. Push the cards into the printer until they stop.
- 5. Slide the paper guide firmly against the edge of the cards.



Print

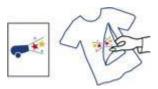
- Open the Page Setup dialog box, and then select the following settings:
 - Paper Size: The appropriate card size
 - Orientation: The appropriate orientation
- 2. Click OK.
- 3. Open the Print dialog box.
- 4. Select the **Paper Type/Quality** pane, and then specify the appropriate paper type.
- 5. Select any other print settings that you want, and then click **Print**.

Iron-on transfers

To print iron-on transfers, use the Paper Type/Quality pane in the Print dialog box to select the paper type and print quality. For great results, use HP Iron-on Transfers.

Guidelines

 When printing a mirror image, the text and the pictures are horizontally reversed from what appears on the computer screen.



Do not exceed the In tray capacity: 12 iron-on transfers.

Prepare to print

- 1. Raise the Out tray, and then remove all paper from the In tray.
- Slide the paper guide all the way to the left.
- Place the iron-on transfer paper in the In tray, with the side to be printed on facing down.
- 4. Push the paper into the printer until it stops.
- 5. Slide the paper guide firmly against the edge of the paper stack.



Print

- Open the Page Setup dialog box, and then select the following setting:
 Paper Size: A4 or US Letter
- 2. Click OK.
- 3. Open the Print dialog box.
- 4. Select the Paper Type/Quality pane.
- 5. In the **Paper Type** pull-down menu, click **Automatic**, or select **Speciality paper**, and then click **HP Iron-on Transfer**.
- 6. Select any other print settings that you want, and then click **Print**.

8 Printing tips

Save time

Set the order that the pages print.

Save money

- Print multiple pages on a single sheet of paper.
- Use HP Everyday Photo Paper to save money and ink when printing photos.

Enhance the quality of printouts

- Select the correct paper type.
- Select the correct print quality.
- Resize the document as needed.

Select a print quality

Follow these steps to select a print quality:

- 1. Open the Print dialog box.
- 2. Select the Paper Type/Quality pane.
 - . Select one of the following settings from the **Quality** pull-down menu:
 - Fast draft: Prints at the fastest printing speed while using the least amount
 of ink.
 - Fast normal: Prints more quickly than Normal mode and at a higher print quality than Fast draft.
 - Normal: Provides the best balance between print quality and speed. This is the appropriate setting for most documents.
 - Best: Provides high-quality printing.
 - Maximum dpi: Provides the highest quality printing, but requires longer to print than Best and uses a larger amount of available memory.
- 4. Select any other print settings that you want, and then click **Print**.

Set the page order

The page order determines the order in which your multipage documents print.

To set the page order, follow these steps:

- 1. Open the Print dialog box.
- 2. Select the **Paper Handling** pane.
- 3. Select one of the following options:
 - Select the Reverse page order check box to print the first page of the document last.
 - This setting saves time because you do not have to reorder the printed pages. It is the appropriate setting for most print jobs.
 - Clear the Reverse page order check box to print the last page of the document last.
- 4. Select any other print settings that you want, and then click **Print**.



Note The reverse page order feature is only available in Mac OS X 10.3 and later.

Print multiple pages on a single sheet of paper

Use the printer software to print multiple pages of a document on a single sheet of paper. The printer software automatically resizes the document text and images to fit on the printed page.

Follow these steps to print multiple pages of a document on a single sheet of paper:

- Open the Print dialog box.
- 2. Select the Layout pane.
- 3. In the **Pages per Sheet** menu, select the number of pages that you want to appear on each sheet of paper.
- In the Layout Direction menu, select the relevant option for arranging the pages on a single sheet.
- If you want a border to appear around each page image, select the border type from the **Border** menu.
- 6. Select any other print settings that you want, and then click Print.

Select a paper type

To determine the paper type used for a printing job, select Automatic to use the automatic paper-type sensor or select a specific paper type.

Use the automatic paper-type sensor

Automatic is the default paper-type setting. When it is used, the auto paper-type sensor automatically selects the print settings that are appropriate for the media that you are printing, particularly when HP paper and media are used.

Follow these steps to use the auto paper-type sensor:

- 1. Open the Print dialog box.
- Select the Paper Type/Quality pane.
- 3. In the Paper Type pull-down menu, click Automatic.
- 4. Select any other print settings that you want, and then click **Print**.



Note Do not use the Automatic setting for high-quality printouts. Instead, select a specific paper type.

Select a specific paper type

When printing a higher-quality document, HP recommends that you select a specific paper type.

Follow these steps to select a specific paper type:

- 1. Open the Print dialog box.
- Select the Paper Type/Quality pane.
- 3. In the **Paper Type** pull-down menu, click the specific paper type.
- 4. Select any other print settings that you want, and then click **Print**.

Resize a document

Use this feature to shrink or enlarge printed text and graphics without changing the paper size.

To shrink or enlarge text and graphics:

- 1. Open the Page Setup dialog box.
- In the Scale box, type the percentage by which you want to shrink or enlarge the document.
 - Type a number from 25 to 99 to reduce a document image.
 - Type a number from 101 to 400 to enlarge a document image.
- 3. Click **OK**, and then print the document.

Print preview

Use the print preview function to view a printout on your computer before printing a document. If the preview does not look correct, you can cancel the print job and adjust the print settings as needed.

To preview a printed document, follow these steps:

- 1. Open the Print dialog box.
- 2. Click the Preview button.

A preview appears of the printed document.

- 3. Do one of the following:
 - Click **Print** to print the document.
 - Click Cancel to cancel the print job. Adjust the print settings as needed before trying to print the document again.

9 Printer software

- Print settings
- Manage the printer (Mac OS X 10.3)
- Manage the printer (Mac OS X 10.2)
- View and change the status of a print job (Mac OS X 10.3)
- View and change the status of a print job (Mac OS X 10.2)

Print settings

The printer is controlled by software that is installed on your computer. Use the printer software, also known as the *printer driver*, to change the print settings for a document.

To specify the document paper size, scaling, and orientation, use the Page Setup dialog box.

To specify other print settings for a document, and to send the document to the printer, use the Print dialog box.

- Page Setup dialog box
- Print dialog box

Page Setup dialog box

Use the Page Setup dialog box to modify the document layout.

To use the **Page Setup** dialog box, open the software program that was used to create the document, click **File**, and then click **Page Setup**.

Use the Page Setup dialog box to perform the following tasks:

- Select your printer so that a complete list of supported paper sizes appears in the Paper Size pull-down menu.
- Set the paper size for a document.
- Resize a document.
- Specify the document orientation.

Print dialog box

Use the Print dialog box to modify print settings for the document that you are printing. The options that are available depend on the pane that is selected.

To open the **Print** dialog box, open the document that you want to print, click **File**, and then click **Print**.

Use the menu and buttons for these functions:

- 1. **Printer**: Select the printer.
- 2. Presets: Select a group of saved print options.
- 3. **Pane Menu**: Toggle between print setting panes, an application-specific pane, and a summary of print settings for the document.
- 4. ?: Open MacHelp.
- 5. **Preview**: View an online preview of the printed document.

- 6. Save as PDF: Convert the document to Adobe PDF format.
- 7. Fax: Send the document as a fax.



Note The **Fax** option is available only in Mac OS X 10.3 and later.

- 8. **Cancel**: Close the Print dialog box without printing the document.
- 9. Print: Print the document.

Manage the printer (Mac OS X 10.3)

Use Printer Setup Utility to manage the printer. Managing the printer includes the following tasks:

- Add a printer
- Set a default printer
- Delete a printer

Add a printer

Follow these steps to add a printer to your computer:

- In Finder, click Applications, click Utilities, and then double-click Printer Setup Utility.
- Click Add.

The Add Printer dialog box appears.

- 3. Select the connection type for the printer (for example, USB).
- 4. Select the printer name from the list.
- 5. Click Add.

Set a default printer

Follow these steps to set the printer as the default printer:

- In Finder, click Applications, click Utilities, and then double-click Printer Setup Utility.
- 2. Select the printer, and then click **Make Default**.

The printer name appears in bold text to indicate that it is the default printer.

Delete a printer

Follow these steps to delete a printer from your computer:

- In Finder, click Applications, click Utilities, and then double-click Printer Setup Utility.
- 2. Click the name of the printer that you want to delete.
- 3. Click Delete.

Manage the printer (Mac OS X 10.2)

Use Print Center to manage the printer. Managing the printer includes the following tasks:

- Add a printer
- Set a default printer
- Delete a printer

Add a printer

Follow these steps to add a printer to your computer:

- In Finder, click Applications, click Utilities, and then double-click Print Center.
- Click Add Printer.
 - The Add Printer dialog box appears.
- 3. Select the connection type for the printer (for example, USB).
- 4. Select the printer name from the printer list.
- Click Add.

Set a default printer

Follow these steps to set the printer as the default printer:

- 1. In Finder, click **Applications**, click **Utilities**, and then double-click **Print Center**.
- Select the printer, and then click Make Default.
 The printer name appears in bold text to indicate that it is the default printer.

Delete a printer

Follow these steps to delete a printer from your computer:

- In Finder, click Applications, click Utilities, and then double-click Print Center.
- 2. Click the name of the printer that you want to delete.
- Click Delete.

View and change the status of a print job (Mac OS X 10.3)

When printing a document with background printing, use Printer Setup Utility to view the status of the document as it is printing.

Follow these steps to check the status of a print job:

- In Finder, click Applications, click Utilities, and then double-click Printer Setup Utility.
- 2. Double-click the printer name to display the print queue.
- 3. Click a print job to select it.

Use the following buttons to manage the print job:

- Delete: Cancel the selected print job.
- Hold: Pause the selected print job.
- Resume: Continue a paused print job.
- Stop Jobs: Pause all print jobs in the print queue.

View and change the status of a print job (Mac OS X 10.2)

When printing a document with background printing, use Print Center to view the status of the document as it is printing.

Follow these steps to check the status of a print job:

- 1. In Finder, click **Applications**, click **Utilities**, and then double-click **Print Center**.
- 2. Double-click the printer name to display the print queue.
- 3. Click a print job to select it.

Use the following buttons to manage the print job:

- Delete: Cancel the selected print job.
- Hold: Pause the selected print job.
- Resume: Continue a paused print job.
- Stop Jobs: Pause all print jobs in the print queue.

10 Maintenance

- Install print cartridges
- Set the auto-off feature
- Align the print cartridges
- Calibrate color
- Automatically clean print cartridges
- Print a test page
- View estimated ink levels
- Maintain the printer body
- Remove ink from your skin and clothing
- Manually clean print cartridges
- Maintain print cartridges
- HP Printer Utility

Install print cartridges

When you need to replace print cartridges, make sure you have the correct print cartridges for your printer, and then install them in the print cartridge cradle.

Print cartridge combinations

For printing most documents, use the tri-color print cartridge and the black print cartridge. When printing photos, use the photo print cartridge along with the tri-color print cartridge.

Always install the tri-color print cartridge in the left side of the print cartridge cradle. Install the black or photo print cartridge in the right side of the print cartridge cradle.



Note To easily identify the correct side of the cradle in which to install the print cartridge, match the symbol on the print cartridge label with the symbol above the print cartridge cradle.

Selection numbers

When buying replacement print cartridges, look for the print cartridge selection number. You can find the selection number in three places:

 Selection number label: Look at the label on the print cartridge that you are replacing.



- 1 Selection number label
- Printer documentation: For a list of print cartridge selection numbers, see the reference guide that came with the printer.
- HP Printer Utility: Open the HP Printer Utility, and then select **Supplies Status**.

Ink-backup mode

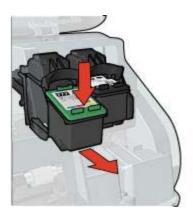
The printer can operate with only one print cartridge installed. For more information, see Ink-backup mode.

Installation instructions

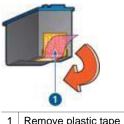
Show me how to install a print cartridge.

Follow these steps to install a print cartridge:

- 1. Verify that the printer is turned on.
- 2. Load Letter or A4 plain, white paper in the In tray.
- 3. Open the printer cover.
- 4. Wait until the print cartridge cradle moves to the right side of the printer and is idle and quiet.
- 5. Press down on the print cartridge, and then slide it out of the print cartridge cradle.



Remove the replacement print cartridge from its packaging and carefully remove the plastic tape.

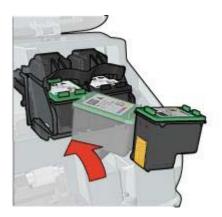


Remove plastic tape



Caution Do not touch the print cartridge ink nozzles or copper contacts. Touching these parts will result in clogs, ink failure, and bad electrical connections. Do not remove the copper strips. They are required electrical contacts.

- 7. Hold the print cartridge so that the copper strips are on the bottom and facing toward the printer.
- Slide the print cartridge at a slight upward angle into the cradle until the cartridge snaps into place.



Close the printer cover. The printer automatically prints a calibration page.

For information about storing print cartridges, see Maintain print cartridges. For information about recycling empty print cartridges, see Print cartridge recovery.



Warning Keep both new and used print cartridges out of the reach of children.

Set the auto-off feature

Select the auto-off feature to automatically place the printer into idle mode after 30 minutes and to turn back on automatically when print jobs are sent to the printer. Selecting auto-off cancels the FEMP energy savings mode.

Follow these steps to activate the auto-off feature:

- 1. Open the HP Printer Utility.
- 2. Select Power Management.
- 3. Follow the onscreen instructions.

Align the print cartridges

The printer automatically aligns the print cartridges after a new print cartridge is installed. You can also align the print cartridges at other times to ensure optimal print quality.

To align print cartridges:

- 1. Load Letter or A4 plain, white paper in the In tray.
- 2. Open the HP Printer Utility.
- Select Align.
- 4. Click the Align button, and then follow the onscreen instructions.

Calibrate color

Perform a color calibration if the colors in photos that are printed with the photo print cartridge consistently look incorrect.

Before performing a color calibration, align the print cartridges, and then reprint the photo. If the color is still incorrect, perform a color calibration.

Both a photo print cartridge and a tri-color print cartridge must be installed for color calibration.

To calibrate color:

- 1. Load Letter or A4 plain, white paper in the In tray.
- 2. Verify that a photo print cartridge is installed in the printer.
- 3. Open the HP Printer Utility.
- Select Calibrate Color.
- 5. Click the Calibrate button, and then follow the onscreen instructions.

Automatically clean print cartridges

If your printed pages are missing lines or dots, or if they contain ink streaks, the print cartridges might be low on ink or might need to be cleaned.

If the print cartridges are not low on ink, follow these steps to clean the print cartridges automatically:

- Open the HP Printer Utility.
- Select Clean.
- 3. Click the **Clean** button, and then follow the onscreen instructions.

If your documents are still missing lines or dots after cleaning, replace the print cartridges.



Caution Clean print cartridges only when necessary. Unnecessary cleaning wastes ink and shortens the life of the cartridge.

Print a test page

Follow these instructions to print a test page:

- 1. Open the HP Printer Utility.
- 2. Select Test.
- 3. Click the **Print Test Page** button.

View estimated ink levels

Follow these instructions to view the estimated ink levels of the print cartridges that are installed in the printer:

- Open the HP Printer Utility.
- Select Supplies Status.

If you need to replace a print cartridge, note the print cartridge selection number that is displayed.

Maintain the printer body

Because the printer ejects ink onto the paper in a fine mist, ink smudges will eventually appear on the printer case and adjacent surfaces. To remove smudges, stains, or dried ink from the exterior of the printer, use a soft cloth moistened with water.

When cleaning the printer, keep these tips in mind:

- Do not clean the interior of the printer. Keep all fluids away from the interior.
- Do not use household cleaners or detergent. If a household cleaner or detergent
 has been used on the printer, wipe the exterior surfaces with a soft cloth
 moistened with water.
- Do not lubricate the support rod that the print cartridge cradle uses to slide back and forth. Noise is normal when the cradle moves back and forth.

Remove ink from your skin and clothing

Follow these instructions to remove ink from your skin and clothing:

Surface	Remedy
Skin	Wash the area with an abrasive soap.
White fabric	Wash the fabric in <i>cold</i> water and use chlorine bleach.
Color fabric	Wash the fabric in <i>cold</i> water and use sudsy ammonia.



Caution Always use cold water to remove ink from fabric. Warm or hot water can set the ink into the fabric.

Manually clean print cartridges

If the printer is used in a dusty environment, a small amount of debris can accumulate on the print cartridge contacts.

Gather cleaning supplies

You will need the following items to clean the print cartridges.

- Distilled water (tap water can contain contaminants that can damage the print cartridge)
- Cotton swabs or other soft, lint-free material that will not stick to the print cartridge Be careful not to get ink on your hands or clothing as you clean.

Prepare to clean

- 1. Open the printer cover.
- Wait until the print cartridge cradle moves to the right side of the printer and is idle and quiet.
- 3. Remove the print cartridges and place them on a piece of paper, with the copper strips facing up.



Caution Do not leave the print cartridges outside the printer for more than 30 minutes.

Cleaning instructions

- Moisten a cotton swab with distilled water and squeeze any excess water from the swab.
- 2. Wipe the print cartridge copper contacts with the cotton swab.



Caution Do not touch the print cartridge ink nozzles. Touching the ink nozzles will result in clogs, ink failure, and bad electrical connections.



- 1 Ink nozzles (do not touch)
- 2 Copper contacts
- 3. Repeat this process until no ink residue or dust appears on the swab.
- 4. Insert the print cartridges in the printer, and then close the printer cover.

Maintain print cartridges

The following tips will help maintain HP print cartridges and ensure consistent print quality:

- Keep all print cartridges in their sealed packages until they are needed. Print cartridges should be stored at room temperatures (15° to 35° C or 59° to 95° F).
- Do not remove the plastic tape covering the ink nozzles until you are ready to install the print cartridge in the printer. If the plastic tape has been removed from the print cartridge, do not attempt to reattach it. Reattaching the tape damages the print cartridge.

Follow these instructions to store print cartridges.

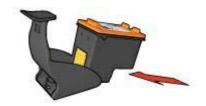
Store print cartridges

When print cartridges are removed from the printer, store them in an airtight plastic container or in the print cartridge protector that comes with the photo print cartridge.

If you store the print cartridge in an airtight plastic container, make sure that the ink nozzles are face down but are not in contact with the container.

Insert the print cartridge into the print cartridge protector

Slide the print cartridge at a slight angle into the protector, and snap it securely in place.



Remove the print cartridge from the print cartridge protector

Press down and back on the top of the protector to release the print cartridge. Slide the print cartridge out of the protector.



 \triangle

Caution Do not drop the print cartridge. Dropping the print cartridge can damage it.

HP Printer Utility

The HP Printer Utility contains tools to perform the following tasks:

- Print a test page.
- Clean the print cartridges.
- View estimated ink levels in the print cartridges.
- Align the print cartridges.
- Calibrate color.
- Calibrate print quality.
- Configure the auto-off feature.
- Find product support on the HP Web site.
- Find information about the print cartridges used with your printer.
- Use the HP Web site to register your printer.

For more information about the HP Printer Utility, see the following topics:

- Open the HP Printer Utility
- HP Printer Utility panes

Open the HP Printer Utility

To open the HP Printer Utility, follow the instructions for your operating system.

Mac OS X 10.3

- In Finder, click Applications, click Utilities, and then double-click Printer Setup Utility.
- 2. Select the printer, and then click **Utility**. The HP Printer Utility appears.

Mac OS X 10.2

- 1. In Finder, click **Applications**, click **Utilities**, and then double-click **Print Center**.
- 2. Select the printer, and then click **Configure**.
 - The HP Printer Utility appears.

HP Printer Utility panes

Select the appropriate pane to view the HP Printer Utility options:

- Supplies Status: View estimated ink levels and print cartridge information.
- HP Support: Open the HP Web site, where you can find support for the printer and register the printer.
- Clean: Clean the print cartridges.
- Align: Align the print cartridges.
- **Test**: Print a test page.
- Calibrate Color: Adjust color to correct problems with tint.
- Power Management: Set the printer auto-off feature.

11 Troubleshooting

- Printer does not print
- Paper jam
- Paper problems
- Paper mismatch
- Printer is stalled
- Print cartridge problems
- Photos do not print correctly
- PictBridge problems
- Print quality is poor
- Document is misprinted
- Problems with borderless documents
- Error messages
- Printer lights are on or flashing
- Document prints slowly
- If you continue to have problems

Printer does not print

Verify the following

Verify the following conditions if the printer is not printing:

- The printer is connected to the power source.
- The cable connections are secure.
- The printer is turned on.
- The print cartridges are the correct print cartridges for the printer and are properly
 installed
- The paper or other media is correctly loaded in the In tray.
- The printer cover is closed.
- The rear access door is attached.

Check the printer lights

The printer lights indicate the printer status and alert you to potential problems.

For more information, see Printer lights are on or flashing.

Check the printer cable connection

If the printer cable is attached to a USB hub, a printing conflict might exist. Two methods are available for solving the conflict:

- Attach the printer USB cable directly to your computer.
- When printing, do not use other USB devices that are attached to the hub.

Check the print queue

The printer will not print if a print job is stalled in the print queue. To resolve a print job that is stalled in the print queue, check the status of the print queue for either Mac OS X 10.3 or Mac OS X 10.2.

If the printer still does not print

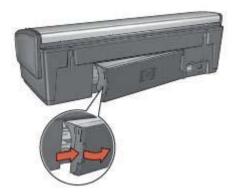
- 1. Select the topic below that best describes the problem:
 - Paper jam
 - Out-of-paper message
 - Printer ejects paper
 - Printer is stalled
- 2. If the printer still does not print, shut down, and then restart your computer.

Paper jam

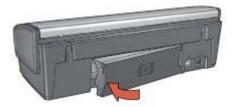
Show me how to install a print cartridge.

Follow these steps to remove a paper jam:

- Press the Resume button.
 If the paper jam does not clear, then go to the next step.
- 2. Turn off the printer.
- Remove the rear access door. Press the handle to the right, and then pull out the door.



- 4. Remove any paper that is inside the printer by pulling it out from the back of the printer.
 - If you are printing labels, verify that a label did not become detached from the label sheet while passing through the printer.
- 5. Replace the rear access door securely.



6. If the paper jam cannot be removed from the back of the printer, raise the printer cover, remove the paper jam from the front of the printer, and then lower the cover.



Caution Remove the paper jam carefully as it is possible to damage the printer when removing paper from the front.

- 7. Turn on the printer, and then press the **Resume** button.
- 8. Reprint the document.



Note If paper jams occur frequently, try using a heavier paper. See the reference guide for paper weight specifications.

Paper problems

Printer does not feed paper

Try one or more of the following solutions:

- Reduce the number of sheets in the In tray.
- Remove the paper from the In tray, and then reload it.
- Use a different type of paper.

Printer ejects paper

If the printer ejects the paper, try one of the following solutions:

- Move the printer away from direct sunlight. The printer might have been placed in direct sunlight, which can affect the Automatic Paper-Type Sensor.
- Select a paper type other than Automatic.
- If you are performing a color calibration, install both the tri-color and the photo print cartridges.
- If you are printing a borderless document and the Resume and Print Cartridge Status lights are flashing, follow the borderless printing guidelines.
- Verify that the protective piece of plastic tape has been removed from the print cartridges.
- If you are printing a borderless document and the Resume light and a Print
 Cartridge Status light are flashing, you might be trying to print a borderless
 document with only the black print cartridge installed. When printing a borderless
 document, always have the tri-color print cartridge and a black or photo print
 cartridge installed.

Out-of-paper message

If an out-of-paper message appears, follow these guidelines.

Paper jam

For information about clearing a paper jam, see the paper jam page.

Printer prints on multiple sheets at once

If the printer prints on multiple sheets at once, follow these guidelines.

Printer prints on multiple sheets at once

If the printer prints on multiple sheets at once, check the following:

Paper weight

The printer might print on multiple sheets of paper at once if the paper is under the recommended paper weight. Use paper that is within the recommended specifications. For paper weight specifications, see the reference guide that came with the printer.

Paper might be loaded improperly

The printer might print on multiple sheets of paper at once if the paper is loaded too far toward the back of the printer or if the paper guide is not positioned firmly against the paper. Reload the paper into the In tray, pushing the paper until you feel resistance, and then slide the paper guide firmly against the edge of the paper stack.

The printer might also print on multiple sheets at once if different paper types are loaded in the In tray. For example, photo paper might be mixed with plain paper. Empty the In tray and load only the paper type that is appropriate for the document that you are printing.

Paper mismatch

If you receive an error message about a paper mismatch, it indicates that the paper size or type selected in the printer software does not match the paper in the In tray.

You can continue printing with the mismatched paper by pressing the **Resume** button. To cancel printing, press the **Cancel** button.

To correct the paper mismatch, change the paper size and type selections in the printer software, or change the paper in the In tray.

In the printer software, follow these steps:

- 1. Press the Cancel button.
- 2. Open the Page Setup dialog box and verify that the selected paper size and type match the paper in the In tray.
 - If the size and type do not match, select the matching paper size and type, or change the paper in the In tray.
- 3. Press OK.
- 4. Open the Print dialog box.

- 5. Select the Paper Type/Quality pane.
- 6. In the **Paper Type** pull-down menu, click the specific paper type.
- 7. Select any other print settings that you want, and then click **Print**.

Printer is stalled

If the printer stalls while printing a document, press the **Resume** button. If the printer does not start printing again, raise the printer cover, and then disconnect the power cable from the back of the printer.



Caution First, check for any loose or broken parts in the printer. If you find loose or broken parts, go to www.hp.com/support or contact HP. Support phone numbers are listed in the reference guide that came with the printer or at www.hp.com/support.

If there are no loose or broken parts, follow these steps:

- 1. Check for and remove any obstacles, such as packing tape or materials, that prevent the print cartridges from moving back and forth.
- 2. Make sure the print cartridges are installed securely in the print cartridge cradle.
- 3. Make sure the tri-color print cartridge is installed in the left side of the cradle and the black or photo print cartridge is installed in the right side of the cradle.
- 4. Check for and clear any paper jam.
- 5. Lower the printer cover.
- 6. Connect the power cable to the back of the printer, and then turn on the printer.
 - If the Resume light is not flashing, continue printing the document.
 - If the Resume light is flashing, press the Resume button.
 If the light still flashes, repeat the steps.

Print cartridge problems

Incorrect print cartridge

The printer can only print when the correct print cartridges are installed. If you receive a print cartridge error message, one or both of the print cartridges cannot be used in the printer. A flashing Print Cartridge Status light indicates which print cartridge is incorrect.

To verify that you have the correct print cartridges:

- 1. Open the printer cover.
- 2. Read the selection number on the print cartridge label.



- 1 Selection number
- 2 Warranty date
- Check the list of print cartridges that can be used in the printer.
 Open the HP Printer Utility, and then select the Supplies Status pane.
- 4. Check the warranty date on the print cartridge.
- 5. If the print cartridge has the wrong selection number, or if the warranty date has expired, install a new print cartridge.
- Close the printer cover.
 If the Print Cartridge Status light stops flashing, then the problem is fixed.
 If the Print Cartridge Status light continues to flash, visit HP Technical Support at www.hp.com/support.

Print cartridge problem message

If you receive a message about a problem with one of the print cartridges, follow these steps:

- Raise the printer cover and remove the print cartridge that was named in the error message.
- Reinstall the print cartridge.
 If the Print Cartridge Status light is not flashing, the problem is solved.
 If the Print Cartridge Status light is flashing, go to the next step.
- 3. Manually clean the print cartridge.
- Reinsert the print cartridge in the printer and close the printer cover.
 If the Print Cartridge Status light is still flashing, the print cartridge is faulty and must be replaced.



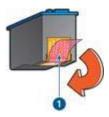
Note You can print with one print cartridge in ink-backup mode if you do not have a replacement print cartridge available.

If the Print Cartridge Status light continues to flash after replacing the print cartridge, visit HP Technical Support at www.hp.com/support.

Printing in ink-backup mode message

When the printer detects that only one print cartridge is installed, ink-backup mode is initiated. This printing mode lets you print with a single print cartridge, but it slows the printer and affects the quality of printouts.

If you receive the ink-backup mode message and two print cartridges are installed in the printer, verify that the plastic tape has been removed from each print cartridge. When the protective piece of plastic tape covers the print cartridge contacts, the printer cannot detect that the print cartridge is installed.



1 Remove plastic tape

Print cartridge is in the wrong slot message

If you receive this error message, the print cartridge is installed in the wrong side of the print cartridge cradle.

Always install the tri-color print cartridge in the *left* print cartridge cradle compartment. Install the black or photo print cartridge in the *right* print cartridge cradle compartment.



Note To easily identify the correct side of the cradle in which to install the print cartridge, match the symbol on the print cartridge with the symbol above the print cartridge cradle.

Photos do not print correctly

Check the paper tray

- 1. Verify that the photo paper is placed in the In tray with the side to be printed on facing down.
 - Verify that the photo paper is flat.
- 2. Slide the paper forward until it stops.
- Slide the paper guide firmly against the edge of the paper.
 Do not press the guide so firmly against the paper that the paper bends or curls.

Check the printer settings

- Open the Page Setup dialog box.
- 2. In the **Page Attributes** pane, verify the following settings:
 - Paper Size: The appropriate paper size
 - Orientation: The appropriate orientation
- 3. Open the Print dialog box.
- 4. In the **Paper Type/Quality** pane, verify the following settings:
 - Paper Type: The appropriate photo paper type
 - Quality: Best or Maximum dpi
- 5. Use the Real Life technologies for photo enhancement.

Colors are tinted or incorrect

If colors in photos appear tinted or incorrect, follow these steps:

- Verify that neither print cartridge is low on ink.
 If neither print cartridge is low on ink, proceed to step 2.
- 2. Align the print cartridges.
- 3. Reprint the photo.
- If colors are still tinted or incorrect, calibrate the color.
 Both a photo print cartridge and a tri-color print cartridge must be installed for color calibration.
- 5. Reprint the photo.
- 6. If colors continue to appear tinted or incorrect, open the Print dialog box, select the **Paper Type/Quality** pane, and then select **Color Options**.
- 7. Adjust the colors.

Here are some guidelines to follow:

- If the colors are too yellow, move the Color Tone slider toward Cooler.
- If the colors are too blue, move the Color Tone slider toward Warmer.
- 8. Reprint the photo.

Horizontal lines appear on a photo



If light or dark horizontal lines appear on photos, follow this procedure:

- 1. Clean the print cartridges.
- 2. Reprint the photo.
- 3. If horizontal lines still occur, align the print cartridges.
- 4. Reprint the photo.

Part of the photo is faded

If part of the photo is faded, follow these guidelines.

Part of the photo is faded

Fading might occur on the edges or near the edges of a photo.

Fading occurs on the edges of a photo





Verify that the photo paper is not curled. If the photo paper is curled, place the paper in a plastic bag and gently bend it the opposite direction of the curl until the paper lies flat. If the problem persists, then use photo paper that is not curled.

For instructions about preventing photo paper from curling, see Store and handle photo paper.

Fading occurs near the edges of a photo



If fading occurs approximately 25 to 63 mm (1.0 to 2.5 inches) from the edge of a photo, try the following solutions:

If fading occurs approximately 25 to 63 mm (1.0 to 2.5 inches) from the edge of a photo, install a photo print cartridge and a tri-color print cartridge in the printer.

PictBridge problems

Images in a connected digital camera do not print

There are several reasons why images in a connected digital camera do not print:

- The digital camera is not PictBridge-compatible.
- The digital camera is not in PictBridge mode.

- The images are not in a supported format.
- You did not select any photos on the camera for printing.

Check the documentation that came with your camera to ensure it supports PictBridge.

If the camera does support PictBridge, make sure the camera is set to PictBridge mode. For instructions on setting the camera to PictBridge mode, see the documentation that came with the camera.

Verify that the digital camera is saving photos in a file format that the PictBridge transfer feature supports:

- EXIF/JPEG
- JPEG

Before you connect the digital camera to the PictBridge port on the printer, select some photos on the camera for printing.

PictBridge lights are flashing

State of the lights	Task
Connection light and the Error light are flashing	The printer has lost connection with the camera while printing. Check the USB connection.
Connection light is on and the Error light is flashing	The camera has lost power. Replace the camera batteries or connect it to a power supply.

State of the lights





Connection light is on and the Error light flashes twice



The camera has requested an unsupported command.

Print quality is poor

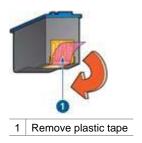
Streaks and missing lines

If your printed pages are missing lines or dots or if streaks appear, the print cartridges might be low on ink or might need to be cleaned.

Print is faded

- Verify that neither of the print cartridges is low on ink.
 If a print cartridge is low on ink, consider replacing the print cartridge. For the correct part numbers, see the reference guide that came with the printer.
- Verify that a black print cartridge is installed.
 If the black text and images on your printouts are faded, you might be printing with only the tri-color print cartridge. Insert a black print cartridge, in addition to the tri-color print cartridge, for optimal black print quality.

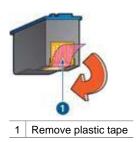
 Verify that the protective piece of plastic tape has been removed from the print cartridges.



Consider selecting a higher print quality.

Blank pages print

The protective piece of plastic tape might still be attached to the print cartridges.
 Verify that the plastic tape has been removed from the print cartridges.



- The print cartridges might be out of ink. Replace one or both empty print cartridges.
- The printer might be in direct sunlight. Direct sunlight can adversely affect the Automatic Paper-Type Sensor. Move the printer out of direct sunlight.
- You might be trying to print a borderless document with only the black print cartridge installed. When printing a borderless document, always have the tricolor print cartridge and a black or photo print cartridge installed.

Too much or too little ink appears on the page

If too much or too little ink appears on the page, follow these instructions.

Too much or too little ink appears on the page

Follow these steps to adjust the ink density:

- 1. Open the Print dialog box, and then select the **Color** pane.
- 2. Select the **Paper Type/Quality** pane.
- 3. Click the **Ink** tab.
- 4. Move the **Ink Density** slider toward **Light** or **Heavy**.



Note If you increase the ink volume, move the **Dry time** slider toward **More** to avoid smearing the ink.

5. Click Print.

Document is misprinted

Text and images are misaligned

If the text and images on your printouts are misaligned, then align the print cartridges.

Document is printed off-center or at an angle

- 1. Verify that the paper is correctly placed in the In tray.
- 2. Verify that the paper guide fits firmly against the edge of the paper.
- 3. Reprint the document.

Parts of the document are missing or printed in the wrong place

- → Open the Page Setup dialog box and verify the following settings:
 - Paper Size: Verify the appropriate paper size.
 - Scale: Verify the scale setting for text or graphics to fit on the paper.
 - Orientation: Verify the appropriate orientation.

Envelope is printed at an angle

- 1. Slide the flap inside the envelope before loading it in the printer.
- 2. Confirm that the paper guide fits firmly against the edge of the envelope.
- 3. Reprint the envelope.

Document does not reflect the new print settings

The printer settings might differ from the software program print settings. Select the appropriate print settings within the software program.

Problems with borderless documents

Borderless printing guidelines

When printing borderless photos or brochures, follow these guidelines:

- Verify that the paper size specified in the Page Setup dialog box matches the size
 of the paper loaded in the In tray.
- Select the appropriate paper type in the Paper Type/Quality pane.
- Do not print borderless documents in the ink-backup mode. Always have two print cartridges installed in the printer when printing borderless documents.

Streaks appear in a light portion of a photo



If streaks appear in a light portion of a photo, approximately 63 mm (2.5 inches) from one of the long edges of the photo, try the following solutions:

If streaks appear in a light portion of a photo, approximately 63 mm (2.5 inches) from one of the long edges of the photo, install a photo print cartridge in the printer.

Horizontal lines appear on a photo



If light or dark horizontal lines appear on photos:

- 1. Clean the print cartridges.
- 2. Reprint the photo.
- 3. If the lines still occur, align the print cartridges.
- 4. Reprint the photo.

Image is printed at an angle



Verify that no problem exists with the source image. For example, if you are printing a scanned image, verify that the image was not crooked when it was scanned.

If the problem is not caused by the source image, follow these steps:

- 1. Remove all paper from the In tray.
- Load the paper correctly in the In tray.
- 3. Verify that the paper guide fits firmly against the edge of the paper.
- 4. Follow loading instructions for the paper type.

Ink smears

Follow these guidelines if ink smears appear on the back of the photos, or if the paper sticks together:

- Use an HP photo paper.
- Verify that the photo paper is not curled. If the photo paper is curled, place the
 paper in a plastic bag and gently bend it the opposite direction of the curl until the
 paper lies flat.

If the paper is not curled, then follow these steps:

- Open the Print dialog box.
- 2. Select the Paper Type/Quality pane.
- 3. Click the **Ink** tab.
- 4. Move the Ink Density slider toward Light.



Note The colors in the image might become lighter.

5. Click Print.

If the problem persists, try the following steps:

- 1. Remove the photo paper, and then load plain paper in the In tray.
- 2. Press and hold down the **Print Cancel** button until the printer starts printing a self-test page, and then release the button.
- 3. Repeat step 2 until the self-test page contains no ink smears.

Part of the photo is faded

If part of the photo is faded, follow these guidelines.

Photo has unwanted border

If the photo has an unwanted border, follow these guidelines.

Part of the photo is faded

Fading can occur on different parts of a photo.

Fading occurs on the edges of a printout





Verify that photo paper is not curled. If the photo paper is curled, place the paper in a plastic bag and gently bend it in the opposite direction of the curl until the paper lies flat. If the problem persists, then use photo paper that is not curled.

For instructions about preventing photo paper from curling, see Storing and handling photo paper.

Fading occurs near the edges of a photo



If fading occurs approximately 25 to 63 mm (1.0 to 2.5 inches) from the edge of a photo, try the following solutions:

If fading occurs approximately 25 to 63 mm (1.0 to 2.5 inches) from the edge of a photo, install a photo print cartridge in the printer.

Photo has an unwanted border

The following conditions can create an unwanted border.

For most paper types





If the photo has an unwanted border, try one of the following solutions:

- Align the print cartridges.
- Verify that no problem exists with the source image. For example, if you are
 printing a scanned image, verify that the image was not crooked when it was
 scanned.

For photo paper with a tear-off tab

If the border appears below the tear-off tab, remove the tab.



If the border appears above the tear-off tab:

- Align the print cartridges.
- Verify that no problem exists with the source image. For example, if you are
 printing a scanned image, verify that the image was not crooked when it was
 scanned.



Error messages

Out of paper message

If you receive an out of paper message, follow these guidelines.

Print cartridge problem message

The Print Cartridge Status light comes on when a print cartridge is low on ink.

The Print Cartridge Status light flashes when a print cartridge is improperly installed or malfunctioning.

For instructions about correcting the problem, see Print Cartridge Status light is on or flashing.

"Print cartridge carriage is stalled"

Follow these steps if the printer stalls while you are printing a document.

Paper detected does not match paper size or type selected

If you receive an error message about a paper mismatch, it indicates that the paper size or type selected in the software program or in the printer software does not match the paper in the In tray. Follow these instructions to resolve the problem.

"Printing in ink-backup mode"

When the printer detects that only one print cartridge is installed, ink-backup mode is initiated. This printing mode lets you print with a single print cartridge, but it slows the printer and affects the quality of printouts.

If you receive the ink-backup mode message and two print cartridges are installed in the printer, verify that the protective piece of plastic tape has been removed from each print cartridge. When plastic tape covers the print cartridge contacts, the printer cannot detect that the print cartridge is installed.

Out-of-paper message

Follow the appropriate steps for the condition that exists.

If the In tray contains paper

- 1. Verify the following:
 - A sufficient amount of paper is in the In tray (at least ten sheets).
 - The In tray is not overly full.
 - The paper stack is touching the back of the In tray.
- 2. Slide the paper guide so it fits firmly against the edge of the paper.
- 3. Press the **Resume** button to continue printing.

If the In tray is empty

- 1. Load paper in the tray.
- 2. Press the **Resume** button to continue printing.

Printer lights are on or flashing

What the lights indicate

The printer lights indicate the printer status.



- Power light
- 2 Print Cartridge Status lights
- 3 Resume light

Power light is flashing



If the Power light is flashing, the printer is preparing to print. The light stops flashing when the printer has received all data.

Resume light is flashing



1 Resume light

If the Resume light is flashing, check the following conditions:

- The printer might be out of paper.
 Place paper in the In tray, and then press the Resume button.
- There might be a paper jam.
 Follow these instructions to clear a paper jam.
- The print cartridges are the correct print cartridges for the printer and are properly installed.
- The printer might be stalled.
 Follow these instructions to correct a stalled printer.

Print Cartridge Status light is on or flashing

If a Print Cartridge Status light is on or flashing, follow these guidelines.

All lights are flashing

The printer might need to be restarted.

- Press the Power button to turn off the printer, and then press the Power button to restart the printer.
 - Proceed to step 2 if the lights continue to flash.
- 2. Press the **Power** button to turn off the printer.
- 3. Disconnect the printer power cord from the electrical outlet.
- 4. Reconnect the printer power cord to the electrical outlet.
- 5. Press the **Power** button to turn on the printer.

Print Cartridge Status light is on or flashing

The printer has two print cartridge status lights.



- 1. The left status light represents the tri-color print cartridge, which is installed in the left side of the print cartridge cradle.
- The right status light represents the black or the photo print cartridge. One of these print cartridges is installed in the right side of the print cartridge cradle.

If the status light is on and not flashing

- Check to see if a print cartridge is low on ink.
 If a print cartridge is low on ink, consider replacing the print cartridge.
- If neither print cartridge is low on ink, press the **Resume** button. If the Print Cartridge Status light remains on, turn off, and then turn on the printer.

If the status light is on and flashing

Verify that the correct print cartridges are installed.

If you were printing a borderless document when the light started flashing, follow the borderless printing guidelines.

Otherwise, follow these steps:

- Raise the printer cover, remove the print cartridge on the right, and then lower the cover.
- 2. Follow one of these steps:
 - If the light is flashing: Open the printer cover, replace the print cartridge that you removed, and then remove the other print cartridge. Proceed to step 3.
 - If the light is off: There is a problem with the print cartridge that you removed.
 Proceed to step 3.
- Manually clean the print cartridge.

After cleaning the print cartridge, reinsert it into the printer.

If the light continues to flash, replace the print cartridge.

If the status and Resume lights are flashing

The paper size or type selected in the software program or in the printer software does not match the paper in the In tray. For information about resolving the mismatch, see Paper mismatch.

Document prints slowly

Multiple software programs are open

The computer resources are insufficient for the printer to print at its optimum speed.

To increase printer speed, close all unnecessary software programs when printing.

Complex documents, graphics, or photos are printing

Documents containing graphics or photos print more slowly than text documents.

Best or maximum dpi print mode is selected

The printer prints more slowly when Best or Maximum dpi is selected as the print quality. To increase the printer speed, select a different print quality mode.

Printer is in ink-backup mode

The printer might print more slowly if it is in ink-backup mode.

To increase the print speed, use two print cartridges in the printer.

Printer software is outdated

Outdated printer software might be installed.

For information about updating the printer software, visit HP's Web site at www.hp.com/go/mac-connect.

Computer does not meet system requirements

If your computer does not have enough RAM or a large amount of free space on the hard drive, the printer processing time will be longer.

- Verify that the computer hard disk space, RAM, and processor speed meet the system requirements.
 - The system requirements are listed in the reference guide that came with the printer.
- 2. Make space available on the hard drive by deleting unwanted files.

If you continue to have problems

If you continue to have problems after investigating the troubleshooting topics, shut down your computer and then restart it.

If you still have questions after restarting your computer, visit HP Technical Support at www.hp.com/support.

12 Supplies

- Paper
- USB cables

Paper

To order media such as HP Premium Paper, HP Premium Inkjet Transparency Film, HP Iron-On Paper, or HP Greeting Cards, go to www.hp.com.

Choose your country/region, and then select Buy or Shopping.

USB cables

C6518A HP USB A-B 2-meter cable

13 Specifications

Printer specifications

Printer specifications

See the reference guide that came with your printer for complete printer specifications, including this information:

- Types, sizes, and weights of paper and other printing media that can be used with your printer
- Print speeds and resolutions
- Power requirements
- Computer operating system requirements

14 Environmental information

- Environmental statement
- Print cartridge recovery

Environmental statement

Hewlett-Packard continuously improves the design processes of its deskjet printers to minimize the negative impact on the office environment and on the communities where printers are manufactured, shipped, and used.

Reduction and elimination

Paper use: The Print Cancel button allows the user to save paper by quickly canceling a print job as needed. This equipment is suitable for using recycled papers (in accordance with EN 12281:2002).

Recycled paper: All paper documentation for this printer is printed on recycled paper.

Ozone: Ozone-depleting chemicals such as CFCs have been eliminated from Hewlett-Packard's manufacturing processes.

Recycling

Design for recycling has been incorporated into this printer. The number of materials has been kept to a minimum while ensuring proper functionality and reliability. Dissimilar materials have been designed to separate easily. Fasteners and other connections are easy to locate, access, and remove using common tools. High priority parts have been designed to access quickly for efficient disassembly and repair.

Printer packaging: The packaging materials for this printer have been selected to provide maximum protection for the least cost possible, while attempting to minimize environmental impact and facilitate recycling. The rugged design of the HP Deskjet printer assists in minimizing both packaging materials and damage rates.

Plastic parts: All major plastics and plastic parts are marked according to international standards. All plastic parts used in the printer housing and chassis are technically recyclable and all use a single polymer.

Product longevity: To ensure the longevity of your HP Deskjet printer, HP provides the following:

- Extended warranty: Details can be found in the reference guide that came with your printer.
- Replacement parts and consumables are available for a limited period after production has stopped.
- Product take-back: To return this product to HP at the end of its useful life, go to www.hp.com/recycle. To return empty print cartridges to HP, see print cartridge recovery.



Note The extended warranty and product take-back options are not available in all countries/regions.

Recycling information for the European Union

Important recycling information for our customers in the European Union: To preserve the environment, this product must be recycled after its useful life as required by law. The symbol below indicates that this product may not be disposed in the general trash. Please return the product for proper recovery/disposal to the authorized collection location nearest to you. For more information regarding return and recycling of HP products generally, please visit www.hp.com/hpinfo/globalcitizenship/environment/recycle/index.html.



Energy consumption

This printer was designed with energy conservation in mind. Not only does this save natural resources, but it also saves money without affecting the high performance of the printer. The printer meets the Federal Energy Management Program (FEMP) requirements, the US government energy savings initiative aimed at reducing power when the printer is turned OFF.

Energy consumption in standby mode: See the reference guide for energy consumption specifications.

Energy consumption in off-mode: When the printer is off, an amount of energy is still being consumed. Energy consumption can be prevented by turning the printer power off, then disconnecting the end of the printer power cord from the electrical source.

Print cartridge recovery

Customers interested in recycling their genuine HP print cartridges can participate in HP's Planet Partner's Program for inkjet cartridges. HP offers this program in more countries/regions than any other inkjet cartridge manufacturer in the world. This program is provided as a free service to HP customers as an environmentally sound solution for these products at end-of-life.

To participate, simply follow the directions provided on HP's Web site at this address: www.hp.com/recycle. This service is not available in all countries/regions. Customers may be asked for their name, phone number, and address.

Because HP's unique recycling processes are very sensitive to material contamination, we cannot take back and recycle cartridges from other manufacturers. The end products of the recycling process are used in the manufacture of new products, and HP must ensure the composition of the material is consistent. To do that, we recycle only HP original cartridges. This program does not extend to refilled cartridges.

Returned cartridges are separated for purification into raw materials for use in other industries to manufacture new products. Examples of products made from recycled HP print cartridge materials include automobile parts, trays used in microchip

fabrication processes, copper wire, steel plates, and the precious materials used in electronics. Depending on the model, HP is able to recycle up to 65% of the print cartridge by weight. The remaining parts that cannot be recycled (ink, foam, and composite parts) are disposed of in an environmentally responsible manner.

Index

A	dpi, maximum 23	Resume light is flashing 75
adding the printer 44, 45		low ink 51
AdobeRGB 22	E	
aligning print cartridges 50	e-mail printing 28	M
auto-off feature 50	energy consumption 81	maintenance
automatic paper type sensor	envelope printing 31	print cartridges 53
15	environmental statement 80	printer body 51
	error messages	maximum dpi 23
В	out-of-paper message 73	
oorderless printing guidelines	problem with print	N
67	cartridges 72	networking 16
orochure printing 32	estimated ink level 51	networking to
outtons		
Power button 7	G	0
Print Cancel button 9		Out tray 11
Resume button 9	greeting card printing 33	
resums battern s		P
•	H	page order, setting 40
cleaning	Hewlett-Packard Company	Page Setup dialog box 43
print cartridges	notices 2	paper ejects paper 57
automatically 50	HP Printer Utility 54	paper guide 11
		paper jam 56
print cartridges manually 52 printer body 51	I	paper trays
color calibration 50	In tray 10	folding paper trays 12
	incorrect print cartridge 59	In tray 10
color management 22	index card printing 37	Out tray 11
color options	ink, removing ink from skin and	unfolding paper trays 10
brightness 22 color tone 22	clothing 51	paper type, selecting 41
	ink-backup mode 14	photo paper, storing and
saturation 22	installing print cartridges 47	handling 23
ColorSync 22	iron-on transfer printing 38	photo print cartridge 21
_		photo printing
D	L	borderless photos 17
default printer, setting 44, 45	label printing 36	photos with a border 19
deleting the printer 44, 45	letter printing 29	saving money 24
digital photos 20	lights	photo printing problems
document printing 30	all lights are flashing 75	colors are incorrect 62
document prints slowly	PictBridge 8	part of photo is faded 62
complex documents are	Power light 7	verifying print settings 61
printing 77	Power light is flashing 74	photos, digital 20
ink-backup mode 77	Print Cartridge Status	PictBridge
maximum dpi selected 77	light 7	lights 8
multiple programs are	Print Cartridge Status light	PictBridge problems 63
open 77	is flashing 75	postcard printing 34
printer software is	resume and print cartridge	print cartridge is in the wrong
outdated 77	lights are flashing 58, 76	slot message 61
system requirements 77	Resume light 9	

print cartridge problem message 60 Print Cartridge Status lights 7 print cartridges aligning 50 cleaning automatically 50 cleaning manually 52 installing 47 maintaining 53 ordering information 51 photo print cartridge 21 recycling 81 replacing 14	multiple pages on single sheet 41 photos 17 photos with a border 19 postcards 34 print preview 42 print quality 40 resizing documents 42 selecting a paper type 41 setting the page order 40 tips 40 transparencies 35 with one print cartridge 14	out-of-paper message 73 paper jam 56 parts of the document are missing or in wrong place 67 photo printing problems 61 PictBridge problems 63 poor print quality 65 Power light is flashing 74 print cartridge is in the wrong slot message 61 print cartridge message 72 print cartridge problem
selection numbers 47 storing 53 used with the printer 13 Print Center 45 Print dialog box 43 print job status 45, 46	printing in ink-backup mode message 60 printing tips 40 R recycling	message 60 Print Cartridge Status light is flashing 75 print is faded 65 printer does not feed paper 57
print preview 42 print quality 40 print settings 43	print cartridges 81 removing ink from skin and clothing 51	printer ejects paper 57 printer is not printing 55 printer is stalled 59
printer adding 44, 45 deleting 44, 45	resizing documents 42	printing in ink-backup mode message 60 resume and print cartridge
managing 44, 45 print job status 45, 46 setting as default 44, 45 printer does not feed paper 57	T Terms and conventions in manual 2 test page, printing 51 toolbox 54	lights are flashing 58, 76 Resume light is flashing 75 streaks and missing lines 65
printer features 5 printer is not printing 55 printer is stalled 59 printer lights are flashing 73	transparency printing 35 troubleshooting all lights are flashing 75	streaks on photo 68 text and images are misaligned 67 too little ink on the page 66
printing 4800 x 1200 optimized dpi 23 borderless photos 17 brochures 32	blank pages print 66 borderless printing guidelines 67 borderless printing problems 67	too much ink on the page 66 unwanted border on photo 71
color management 22 color options 22 digital photos 20 documents 30	document does not reflect new print settings 67 document is printed off- center or at angle 67	U USB cable 78 connecting to the printer 16
e-mails 28 envelopes 31 from a digital camera 25 greeting cards 33 high quality 23 index cards and small media 37 iron-on transfers 38 labels 36 letters 29 maximum dpi 23	document prints slowly 77 envelope prints at angle 67 error messages 72 horizontal lines appear on photo 62 image prints at angle 69 incorrect print cartridge 59 ink smears 69 misprinted document 67 multiple pages print at once 58	utilities 54