## Macintosh User's Guide

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## Acknowledgments

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## Finding Information - What and How

- Use the Quick Start Poster to install the printer driver.
- Turn on balloon help in the Help menu. Move your cursor over any print setting to view an explanation.
- Visit the hp web site on the Internet at http://www.hp.com/support/home_products or http://www.hp.com for the latest product information, troubleshooting, and printer software updates.
- For complete information about your printer, view your electronic User's Guide. Adobe ${ }^{\circledR}$ Acrobat ${ }^{\circledR}$ Reader is required to view your electronic User's Guide.
- If you do not have Adobe Acrobat Reader installed, begin printer software installation process, select View User's Guide, and follow on-screen instructions to install Adobe Acrobat Reader.


## Printing Basics

## Buttons and Lights

The buttons on the front of your hp deskjet 990c printer enable you to turn the printer on and off, cancel a print job, or resume printing. The lights provide you with visual cues about the state of your printer. The buttons and lights from left to right are:

## Cancel Button - Press this

 button to cancel the current print job in the printer.

Print Cartridge Status Light When lit, the light above this symbol indicates that you need to check the status of your print cartridges. See "Print Cartridge Status" on page 35.

Resume Button and Light Whenever the light above the Resume Button flashes, press the Resume Button to continue printing. See "What do the flashing lights mean?" on page 51.


Power Button and Light - Use the Power Button to turn the printer on and off. The green light above the Power Button flashes when the printer is processing information.Infrared (Ir) Lens - Use the infrared lens to print from an infrared sending device such as a Palm Pilot or PowerBook. See "Infrared (Ir) Printing" on page 18. When the light to the right of the infrared lens displays a solid beam, the infrared device is transmitting information to the printer.

Warning Use only the Power Button on the front of the printer 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 may cause premature printer failure.

## Paper Trays

## IN Tray

You place paper and other media types for printing in the IN tray. Pull out this tray for easy loading. Once you insert the media you want to use, slide the paper guides so they rest snugly against the media. Make sure to slide all media as far as it will go into the IN tray. Make sure the IN tray is pushed back in.


## OUT Tray

The printer sends its completed pages to the OUT tray. The OUT tray has two different positions.

Down - For most types of printing (except banners). The down position also allows single envelope printing.
Up - For ease of loading media in the IN tray and for banner printing.

OUT Tray Extension - For printing a large number of pages. In addition, it must be extended when you are printing in draft mode to prevent paper from falling to the floor. To use the Out Tray Extension, gently pull out the extension. When your print job finishes, push the OUT Tray Extension back into its storage slot.

NOTE: Do not use the OUT Tray Extension with legal-sized paper. It may cause a paper jam.


## Using Your Printer Software

## Choosing Your Printer

If you haven't already selected your hp deskjet as the default printer in the Chooser, you should do so now. How you select the hp deskjet in the Chooser depends on whether your computer is connected to the printer via USB or AppleTalk.

## USB Connection

1 Make sure the computer and printer are turned on, and your printer is connected to your computer with a USB cable.
2 From the Apple menu, select Chooser.
3 In the left side of the Chooser window, click the DeskJet Series icon.
4 In the right side of the Chooser window, click DeskJet 990C.
5 Close the Chooser.

## AppleTalk Network Connection

1 Make sure the computer and printer are both turned on and connected to your AppleTalk network. You will need an external print server, such as an hp jetdirect 300X External Print Server, to connect the printer to your AppleTalk network.
2 From the Apple menu, select Chooser.
3 Click the Active button next to AppleTalk.
4 In the left side of the Chooser window, click the DeskJet Series icon.

5 Select the printer zone, if necessary.
6 In the right side of the Chooser, click DeskJet 990C.
7 Close the Chooser.

## Other Ways to Select a Default Printer

Besides using the Chooser, you can also select a default printer in the following ways:

- Select the desired printer by clicking on the menu bar printer icon at the top of the screen, and choosing the DeskJet 990C.
- If your control strip is on, then select the desired printer by clicking the printer icon at the bottom of the screen, and choosing the DeskJet 990C.
- Drag the document you want to print to the desktop icon of the printer you want to use.
- Double-click the icon of the hp deskjet printer you want to use, and choose Set Default Printer from the Print menu.
- The Print command will send your documents to this printer until you select a new default printer. If you switch printers, check your document before you print it to see whether the formatting or pagination changed.


## Desktop Printing

Desktop printing is useful when you have a number of documents to print at once, or when you have a document that is already formatted for printing on a particular printer. There are two methods to print documents from the desktop. To perform desktop printing, either:

- Drag the icons of the documents you want to print to the desktop icon of the printer you want to use.

OR

- Select the icons of the documents you want to print, then choose Print from the File menu. When the Print dialog box appears, select your print options, then click the Print button.


## hp deskjet 900 Utility

The hp deskjet 900 Utility is located in the Utilities folder on your hard drive's main directory. The hp deskjet Utility window has six panels, as shown below:


- WOW!, which demonstrates the hp deskjet 990c's print quality
- Ink Level, which displays the approximate amount of ink remaining in each print cartridge
- Test, which allows you to print a test document
- Clean, which allows you to automatically clean your print cartridges
- Calibrate, which allows you to automatically align the Color and Black print cartridges
- Support, which provides contact information for buying hp products and obtaining customer support.
Simply click a panel, then choose your option(s).


## Checking Printer Status

You can tell the status of a printer by looking at its desktop icon:

| Icon | Description | Icon | Description |
| :--- | :--- | :--- | :--- |
| hp deskjet 990 c | Idle printer (default) | Printing stopped on <br> default printer |  |
| printing on default | Idle printer (not | default) | Error on default <br> printer |

## Page Setup-Controlling Page Layout

You control settings such as paper size, scaling, and page orientation from the hp deskjet Page Setup dialog box. To get to this dialog box:

1 Open the software program used to create your document.
2 From the File menu, select Page Setup.

## Paper Size, Scaling, and Orientation

Make sure you correctly choose the size of paper, envelopes, or other media you have in the IN tray.


## Print Dialog Box

You control settings such as number of copies, all or specific pages to print, paper type, print quality, page layout, color, and background printing from the hp deskjet Print dialog box. To get to this dialog box, select Print from your software program's File menu.


## Buttons

The buttons at the bottom of every Print dialog box are:

- Default Print Settings returns the setting to the system default OR
- Save Current Settings allows you to review the current print settings, assign a name to the settings, and save them under that name.
- Preview allows you to view your document before you print it so you can see how the document will print with the current settings.
- Cancel cancels settings you have entered and closes the Print dialog box.
- OK starts printing.


## General

General is the default panel selected in the Print dialog box menu. This panel lets you select the number of copies you want to print, whether you want to print the entire document or select pages, and whether you want to print from the front of your document or begin printing from the end forward.
You may also choose the following options from the General menu:

- Paper Type/Quality (see "Paper Type/Quality" on page 11)
- Layout (see "Layout" on page 11)
- Color (see "Color" on page 12)
- Background Printing (see "Background Printing" on page 13)

Click to display a list of


Click to display the Defaut Print
Settings or the Save Current
Settings option.

## Paper Type/Quality

Choose from a wide range of paper types.


Print Quality

- Draft-Quick printing
- Normal-Everyday printing
- Best-Highest quality
- High Res Photo-Only for photo
- Ink tab settings allow you to adjust the ink volume and dry time.


## Layout

This dialog box allows you to specify the number of pages printed on each sheet of paper. You also set Two-Sided Printing options from this dialog box.

Choose the number of pages ( $\mathbf{1}, \mathbf{2}$, or 4 ) to print on each sheet. OR
Print a poster:
Choose the Tiling option then select the size of your poster by choosing the number of pages across and down ( $2 \times 2,3 \times 3$, or $4 \times 4$ ).

Check to print a border around each page.

Check here to print on both sides of the paper.


If you check Print Both Sides, choose the appropriate method: Binding (side or top).

If you check Print Both Sides, choose the appropriate method: Manual or Automatic (if using the Automatic Two-Sided Printing Module).

## Color

Your hp deskjet 990c uses HP's Color Matching technology to intelligently analyze each element on a page-text, graphics, and photographs-and provide the best color output.

Choose:

- ColorSmart III
- ColorSync
- Grayscale (print in shades of gray)
- Black \& White (no color)


The ColorSmart III setting lets you check a box to disable image enhancements.

The ColorSync setting can be used for color matching with other computers using the ColorSync matching system
Grayscale prints in shades of gray. With this setting, you also have the option to optimize printing for fax and photocopy.
Black \& White prints only in black and white (no color, no gray). "Black only" is not recommended for use with glossy paper.


## Background Printing

Choose Background if you want to continue working while printing takes place. If you choose Foreground printing, you won't be able to work on other tasks until the printing is complete, but printing will be faster.

Choose:

- Background to continue working while printing
- Foreground for faster printing

Click the button that matches the desired timing for your print job

The following table describes additional features available when using background printing. To access these features from the desktop, double-click the hp deskjet 990c printer icon.

| Background Printing Options | Instructions |
| :---: | :---: |
| Delete a print job | - Select the job title or icon, then click the Trash icon. <br> OR <br> - Drag the document's icon to the Trash on your desktop. <br> These methods delete only the print job, not the document itself. |
| Hold/pause a print job | - Select the job title or icon, then click the Pause button. <br> The print request will pause until you select its title again and click the Resume Button. <br> OR <br> - Drag the document icon to the Waiting to Print list of documents. |
| Mark a print request "Urgent" | - Select the job title or icon, then click the small clock. <br> - In the dialog box that appears, click Urgent. This moves the print request to the top of your list. |

\(\left.$$
\begin{array}{|l|l|}\hline \begin{array}{l}\text { Background Printing } \\
\text { Options }\end{array} & \text { Instructions } \\
\hline \begin{array}{l}\text { Sort/change the order of } \\
\text { print jobs }\end{array} & \begin{array}{l}\text { - From the View menu, choose the title } \\
\text { of the column by which you want to } \\
\text { sort or choose. }\end{array}
$$ <br>
- To see and change the print order, sort <br>
by Print Time. <br>
- Drag and drop the print job title to the <br>

desired place in the list.\end{array}\right]\)| - Choose Stop Print Queue from the |
| :--- |
| Printing menu. |

## Automatic Paper-Type Sensor

When you use the Automatic Paper-Type Sensor feature, your hp deskjet 990c automatically determines the correct paper type for most paper or media placed into the printer's IN tray. It scans the first page of each new print job.

- The Automatic Paper-Type Sensor works with both HP and nonHP media. However, it is optimized for HP media so your printer can quickly select the appropriate paper type. For a complete list of HP products, see "Paper and Other Media" on page 74.
- This feature is not recommended for printed or lined paper and media.


## How to Use Automatic Paper-Type Sensor

You control settings for paper type from the Paper Type/Quality dialog box. The default setting for this dialog box is Automatic. If you want to turn off the Automatic Paper-Type Sensor, select a paper type other than Automatic.

To get to this dialog box:
1 From your software program's File menu, select Print.
2 From the General menu in the print dialog box, select the Paper Type/Quality option.

- The paper type default is Automatic.
- The print quality default is Normal.

NOTE:Ifyou want a different print quality, you can manually change this setting.

## 3 Click OK.

- As the printer begins to pull in the first page, an optical sensor (a blue light) quickly scans the page one or more times to determine the best paper type setting. This takes only a few seconds. After the paper type is determined, printing begins.


## Automatic Two-Sided Printing

The Automatic Two-Sided Printing Module is a special hardware and software feature that enables your printer to automatically print on both sides of the page.

Installing the Automatic Two-Sided Printing Module
1 Turn the knob on the printer's Rear Access Door counterclockwise, and remove the door.


2 Insert the module into the back of the printer.


## Printing with the Automatic Two-Sided Printing Module

Not all paper weights and sizes and paper types can be used with the Automatic Two-Sided Printing Module. You can print on plain paper, HP Bright White Inkjet Paper, HP Premium Inkjet Heavyweight Paper, HP Felt-textured Greeting Card Paper, HP Professional Brochure Paper, Glossy or Matte, and HP Photo Quality InkJet Paper, Semi-gloss or Matte.
To use the Automatic Two-Sided Printing Module:
1 Load appropriate paper.
2 From the File menu, select Page Setup.
3 Check the Two Sided Safe Margins box, then click OK.
4 From the File menu, select Print.

5 Choose Layout from the General pop-up menu. See "Print Dialog Box" on page 9 for instructions.

6 In the Layout dialog box, check the Print Both Sides box, and select Automatic.
7 Click on either the Book or Tablet icon to choose the correct page orientation.
8 Make any other formatting selections from other Print dialog boxes, then click Print.

Note: After one side of the page is printed on, the paper is held while the ink dries. Once the ink is dry, the paper is pulled back in, and the reverse side is printed. As each page is finished, the page will drop into the OUT tray. If you have problems with Two-Sided Printing, see "Troubleshooting Tips" beginning on page 43.

## Infrared (Ir) Printing

Infrared (Ir) connectivity is a feature that enables wireless connectivity for personal digital assistants (PDAs), PowerBooks, and other mobile devices. Use the Infrared feature to print to the hp deskjet 990c from an infrared device such as a PowerBook or Palm device without any type of connecting cable. The hp deskjet 990c printer includes an infrared lens that can access and print information sent to it by another infrared device.

## Supported Operating Systems

- MacOS version 8.6
- Palm


## Supported Devices

To determine if a specific device is supported by infrared, check the manufacturer's reference guide.

Some of the devices supported by infrared include:

- PowerBooks with infrared capability
- Some Personal Digital Assistants (including the Palm product line)
- Digital cameras with infrared capability (including the HP PhotoSmart)
- Some cellular phones with infrared capability


## Using Infrared with a PowerBook

If your PowerBook is equipped with infrared technology that uses the IrDA protocol, you can establish wireless TCP/IP or AppleTalk connection.

For instructions, refer to one of the following:

- Reference guide or instructions that came with the PowerBook
- Manufacturer's web site or support telephone number
- Infrared Data Association (IrDA) web site at: http://www.irda.org


## Printing from a PowerBook

1 Make sure the printer is turned on.
2 Locate the infrared lens on the PowerBook.
3 Align the PowerBook's infrared lens with the printer's infrared lens. Position the PowerBook up to 3 feet ( 1 meter) from the printer and within a 30-degree total angle from the printer's infrared lens.

- The path between the two infrared devices must be clear of obstacles.
- When the two infrared devices are lined up correctly, the infrared light on the printer will begin to blink. This indicates that a connection has been established between the two devices.

4 Select your printer using the Chooser. See "Choosing Your Printer" on page 5 for instructions.

Note: If the PowerBook is moved out of range of the printer's infrared lens at any time during the printing process, the infrared light may turn off and the printer may stop printing. If you realign the devices within approximately 3-30 seconds, the print job will resume.

## Printing using a Palm Pilot

1 Locate the infrared lens on the Palm device. This is typically found on one of the sides of the Palm.

2 Align the Palm Pilot's infrared lens with the printer's infrared lens. Position the Palm Pilot up to 3 feet ( 1 meter) from the printer and within a 30-degree total angle from the printer' infrared lens.

- The path between the two infrared devices must be clear of obstacles.

Note: If the Palm Pilot is moved out of range of the printer's infrared lens at any time during the printing process, the infrared light may turn off and the printer may stop printing. If you realign the devices within approximately 3-30 seconds, the print job will resume.

3 Do one of the following:

- Use the Beam command to send a single calendar appointment, or one or more business cards, to-do list items, or memos to the printer.

OR

- Use the Print command to send one or more items (such as calendar appointments, e-mail messages, phone lists, or to-do lists) to the printer.
The infrared light on the printer displays a solid beam during the transfer process. When finished printing, the light will turn off.

Note: Printing (rather than beaming) requires a printing program in your Palm Pilot. A printing program can greatly enhance the appearance of your printed information. When printing follow the specific procedures of the program.

## Printing using a HP PhotoSmart Digital Camera

1 Locate the infrared lens on the digital camera. This is typically found on the front of the camera.

2 Align the camera's infrared lens with the printer's infrared lens. Position the camera up to 3 feet ( 1 meter) from the printer and within a 30-degree total angle from the printer's infrared lens.

- The path between the two infrared devices must be clear of obstacles.

Note: If the digital camera is moved out of range of the printer's Infrared lens at any time during the printing process, the infrared light will turn off and the printer may stop printing. If you realign the devices within approximately 3-30 seconds, the print job will resume.

3 Send a photo to print following the normal sending or sharing procedures of the camera.

The infrared light on the printer displays a solid beam during the transfer process. When finished printing, the light will turn off.

## Printer Maintenance Tips

Because the printer ejects ink onto the paper in a fine mist, ink smudges will eventually appear on the printer case. Follow the cleaning instructions provided below.

- Do not clean the interior of the printer. Keep all fluids away from the interior.
- To remove stains, smudges and/or dried ink from the exterior of the printer, use a soft cloth moistened with water. Do not use household cleaners or detergent. In the event that a household cleaner or detergent is used on the printer, wipe the printer's exterior surfaces with a soft cloth moistened with water.
- Do not lubricate the rod on which the print cartridge cradle moves. Noise is normal when the cradles move back and forth.

For information on cleaning print cartridges and the print cartridge cradle, see "Manually Cleaning the Print Cartridges and Print Cartridge Cradle" on page 40

> Caution For maximum performance and reliability, the printer should be handled and stored in an upright, level position.

Do not tip your printer after heavy usage. If the printer is tipped soon after heavy printing, it is possible for excess ink to spill. Clean up spilled ink using the methods previously listed in this section.

## Beyond the Basics

## Getting the Right Paper

Most plain photocopy paper works fine in your printer, particularly paper that is marked for use in inkjet printers. To get the best results, use one of the Hewlett-Packard papers, which were developed especially for HP inks and your printer.
Brightness. Some papers are whiter than others and produce sharper, more vibrant colors. For photographs, you'll want to use HP Premium Plus Photo Paper or HP Premium Photo Paper for the best results. For projects that use other colored images, HP Bright White Inkjet or HP Premium Inkjet paper work well.

For a complete list of available HP media, see "Supplies and Accessories" on page 73.

For information on supported paper weights and sizes, see "Media Weight" on page 68 and "Media Size" on page 68.

## Printing on Different Types of Paper and Media

Your printer is designed to work with so many different types of print media that you are practically set up as a small print shop. This chapter explains how to use the different printing materials.

## Manual Two-Sided Printing

| I should... |  | Guidelines... |
| :---: | :---: | :---: |
| Book Binding <br> Tablet Binding <br> 1 Remove all paper from the OUT tray. <br> 2 Load paper into the IN tray. <br> 3 Slide the paper guides snugly against the sheets. <br> 4 Push in the IN tray. <br> 5 From your software program's File menu, select Print. | 6 Choose the print settings that match the type and size of your paper. <br> Page Setup: <br> - Paper Size: Choose appropriate size <br> - Orientation: Choose appropriate orientation <br> Paper Type/Quality: <br> - Paper Type: Choose appropriate type <br> - Print Quality: Choose Normal <br> Layout: <br> - Pages per Sheet: 1 (Normal) <br> - Print Both Sides: Check this box, then choose the Book icon (for binding on the side) or Tablet icon (for binding at the top). Uncheck Automatic. <br> 7 Begin printing. <br> 8 Carefully follow the reloading instructions displayed on your computer screen. <br> 9 When the paper is properly reloaded, click Continue. | - You can do manual Two-Sided Printing with either the Rear Access Door or the Automatic Two-Sided Printing Module attached. <br> - The printer automatically prints the oddnumbered pages first. The printer then displays a message on your computer screen that tells you how to reload the paper to print the even-numbered pages. |

## Printing Transparencies



1 Pull out both of the paper guides, and remove all paper from the IN tray.
2 Fan the edges of the transparency sheets to separate them, then align the edges.
3 Insert a stack of up to 25 transparency sheets, rough side down and the adhesive strip towards the printer.
4 Slide the paper guides snugly against the transparencies.
5 Push in the IN tray.
6 From your software program's File menu, select Print.

## Guidelines...

7 Choose the print settings that match the type and size of the transparencies.
Page Setup:

- Paper Size: Choose appropriate size
- Orientation: Choose appropriate orientation

Paper Type/Quality:

- Paper Type: Choose transparency type
- Print Quality: Choose Normal or Best

Layout:

- Pages per Sheet: 1 (Normal)
- Print Both Sides: Unchecked

8 Print the transparencies.
9 The printer waits for transparencies to dry before releasing them automatically. Press the Resume Button © to continue printing.

- For best results, use HP Premium Inkjet Transparency Film.


## Printing Single Envelopes



1 Slide the envelope, with its flap side on the left and flap facing up, into the OUT tray's single envelope slot. Push the envelope in until it stops.
2 From your software program's File menu, select Print.

3 Choose the print settings that match the type and size of the envelope.
Page Setup:

- Paper Size: Choose appropriate envelope size
- Orientation: Choose Portrait icon

Paper Type/Quality:

- Paper Type: Choose Plain Paper
- Print Quality: Choose Normal

Layout:

- Pages per Sheet: 1 (Normal)
- Print Both Sides: Unchecked

4 Print the envelope.

## Guidelines...

- Make sure the OUT tray is in the down position.
- Avoid envelopes that have clasps or windows.
- Avoid envelopes that are shiny or embossed, envelopes with thick, irregular, or curled edges, or envelopes that are wrinkled, torn, or otherwise damaged.
- If your software program includes an envelope-printing feature, follow those instructions instead of the procedure here.


## $\sqrt{\lambda}$ <br> Printing a Stack of Envelopes



1 Pull out the IN tray.
2 Slide out both of the paper guide, and remove all paper from the IN tray.
3 Slide up to 15 envelopes, with their flap side on the left and flap facing up, into the IN tray as far as they will go.
4 Slide the paper guides snugly against the edges of the envelopes.
5 Push in the IN tray.
6 From your software program's File menu, select Print.

## Guidelines...

- Never load more than 15 envelopes at one time.
- Align the envelope edges before inserting them.
- Avoid envelopes that have clasps or windows.
- Avoid envelopes that are shiny or embossed, envelopes with thick, irregular, or curled edges, or envelopes that are wrinkled, torn, or otherwise damaged.
- If your software program includes an envelope-printing feature, follow those instructions instead of the procedure here.


## Printing Business Cards, Index Cards, and Other Small Media



1 Pull out the IN tray.
2 Slide out both paper guides, and remove all paper from the IN tray.
3 Insert up to 45 cards or other small media into the IN tray as far as they will go.
4 Push the paper length guide in as far as it will go. Push the fine-length guide (colored portion of paper length guide) snugly against the media. Then push the paper width guide in.
5 Push in the IN tray.
6 From your software program's File menu, select Print.

## Guidelines...

- Align the media edges before inserting the media.
- For ease of loading small media, pull out the IN tray and raise the OUT tray. After you have inserted the media, lower the OUT tray.
- If you get an "out of paper" message, make sure the media is positioned properly in the IN tray. Place the media on the right side and towards the printer. The IN tray should be pushed in so that the paper length guide can hold the media in place.


## Printing Labels



1 Pull out the IN tray.
2 Slide out both of the paper guides, and remove all paper from the IN tray.
3 Fan the edges of the label sheets to separate them, then align the label edges.
4 Insert up to 20 label sheets (label side down).

5 Slide the paper guides snugly against the sheets.
6 Push in the IN tray.
7 From your software program's File menu, select Print.

## Guidelines...

- Use only paper labels that are designed specifically for use with inkjet printers.
- Never load more than 20 sheets at one time.
- Use only full sheets of labels.
- Make sure the sheets are not sticky, wrinkled, or pulling away from their protective backing.
- Do not use plastic or clear labels. The ink will not dry when used with plastic or clear labels.


## Printing Photographs



1 Pull out the IN tray.
2 Slide out both of the paper guides, and remove all paper from the IN tray.
3 Insert up to 20 sheets of photo paper (printable side down) into the IN tray.
4 Slide the paper guides snugly against the edges of the media.
5 Push in the IN tray.
6 From your software program's File menu, select Print.

## Guidelines...

- For best results, use an HP photo paper.
- The photo needs to be in electronic (digital) form, before you can print it. Take a digital picture, scan a photo, or have your local camera shop provide an electronic file of your photo.
- Use Best for photo paper printing.


## 7 Printing Greeting Cards



1 Pull out the IN tray.
2 Slide out both of the paper guides, and remove all paper from the IN tray.
3 Insert up to 5 cards into the IN tray as far as they will go.
4 Slide the paper guides snugly against the edges of the cards.
5 Push in the IN tray
6 From your software program's File menu, select Print.

## Guidelines...

- Align the card edges before inserting the cards.
- For ease of loading small cards, pull out the IN tray and raise the OUT tray. After you have inserted the media, lower the OUT tray.
- If you have pre-folded greeting cards, unfold the cards, then load the cards into the IN tray.
- If you get an "out of paper" message, make sure the media is positioned properly in the IN tray. Place the media on the right side and towards the printer. The IN tray should be pushed in so that the paper length guide can hold the media in place.


## ․ Printing Iron-On Transfers

| I should... |  | Guidelines... |
| :---: | :---: | :---: |
| 1 Pull out the IN tray. <br> 2 Slide out both of the paper guides, and remove all paper from the IN tray. <br> 3 Load the iron-on transfer paper with printable side down. <br> 4 Slide the paper guides snugly against the sheets. <br> 5 Push in the IN tray. <br> 6 From your software program's File menu, select Print. | 7 Choose the print settings that match the type and size of your iron-on transfers. <br> Page Setup: <br> - Paper Size: Choose appropriate size <br> - Orientation: Choose appropriate orientation <br> Paper Type/Quality: <br> - Paper Type: Choose HP Premium Inkjet Paper <br> - Print Quality: Choose Best <br> Layout: <br> - Pages per Sheet: 1 (Normal) <br> - Print Both Sides: Unchecked <br> 8 Print your transfer. | - If you want the text or picture on your tshirt as you see it on the screen, flip the document by clicking Mirror Image. <br> - For best results, use HP Iron-On T-Shirt Transfers. |

## Printing Posters

| I should... |  | Guidelines... |
| :---: | :---: | :---: |
| 1 Load paper in the IN tray. <br> 2 Slide the paper guides snugly against the sheets. <br> 3 Push in the IN tray. <br> 4 From your software program's File menu, select Print. | 5 Choose the print settings that match the type and size of your poster. <br> Page Setup: <br> - Paper Size: Choose appropriate size <br> - Orientation: Choose appropriate orientation <br> Paper Type/Quality: <br> - Paper Type: Choose Plain Paper <br> - Print Quality: Choose Normal <br> Layout: <br> - Tiling: Select this option <br> - Pages per Sheet: $2 \times 2,3 \times 3$ Poster, or $4 \times 4$ <br> - Print Both Sides: Unchecked <br> 6 Print your poster. | - After printing, trim the edges on each sheet and tape the sheets together. |

## Printing Banners



1 Tear off up to 20 sheets.
2 Tear off and discard the perforated strips, if any.
3 Pull out the IN tray.
4 Slide out the paper guides, and remove all paper from the IN tray.
5 Raise the OUT tray and leave it in the UP position.
6 Put the banner paper into the IN tray so that the unattached edge of the banner paper stack is toward the printer.
7 Slide the paper guides snugly against the sheets.

8 Push in the IN tray.
9 From your software program's File menu, select Print.

## Guidelines...

10 Choose the appropriate paper type, size, and orientation.
Page Setup:

- Paper Size: Choose U.S. Letter Banner or A4 Banner
- Orientation: Choose appropriate orientation

Paper Type/Quality:

- Paper Type: Choose Plain Paper or HP Banner Paper
- Print Quality: Choose Normal

Layout:

- Pages per Sheet: 1 (Normal)
- Print Both Sides: Unchecked

11 Print the banner.

- When printing banners, be sure that the OUT tray is raised into the up position and the IN tray is pushed in.
- For best results, use HP Banner Paper.
- If you are having problems printing a banner, see "Banners aren't printing correctly." on page 57.


## Print Cartridges

## Print Cartridge Status

The Print Cartridge Status Light flashes when one or both of your print cartridges are low on ink, improperly installed, or malfunctioning. It will also flash if you are trying to use the wrong print cartridge type. If the problem is low ink, the light will stop flashing when you open the top cover. For any other print cartridge related problem, the Print Cartridge Status Light will continue to flash.


To check the status of your print cartridges, open the printer's top cover. The yellow arrow on the print cartridge cradle aligns with one of five Print Cartridge Status icons.


## Print Cartridge Status continued

When the Print Cartridge Status Light flashes, open the printer's top cover and follow the instructions below. For more information on replacing print cartridges. see page 37.

| If the arrow points to... | It means... | To solve the problem... |
| :---: | :---: | :---: |
| Problems with print cartridges <br> Color <br> Black | The print cartridge is either: <br> - missing <br> - improperly installed <br> - the wrong print cartridge for the printer <br> - defective | 1 Insert a print cartridge if it is missing. <br> 2 Remove and reinsert the existing print cartridge. <br> 3 If there is still a problem, verify that the color cartridge is an hp C6578 series or hp No. 78 cartridge, and the black cartridge is an hp 51645 series or hp No. 45 cartridge. <br> 4 If the problem persists, replace the cartridge. |
| Print cartridges low on ink <br> Color <br> Black | Color or black print cartridge is running low on ink. | - Consider replacing the color cartridge with an hp C6578 series or hp No. 78 cartridge. <br> - Consider replacing the black cartridge with an hp 51645 series or hp No. 45 cartridge. |
| Print cartridges OK | Print cartridges are operational. | No problems. |

## Replacing Print Cartridges

When buying replacement print cartridges, check the part numbers carefully. The print cartridge numbers for your printer are:

- Black hp 51645 series or hp No. 45
- Tri-Color hp C6578 series or hp No. 78


## To Replace a Print Cartridge:

When a print cartridge runs out of ink, leave the empty cartridge in the cradle until you can replace it. The printer does not print with only one print cartridge in the cradle.

1 To access the print cartridge cradle, make sure the OUT tray is down (1.1) and then press the Power Button (0) (1.2) to turn on the printer.
2 Open the top cover. The cradle moves to an accessible position.
3 Raise the cradle latch.

4 Lift the print cartridge out and discard it.


Warning Keep print cartridges out of the reach of children.

5 Remove the replacement print cartridge from its packaging and carefully remove the protective vinyl tape.


Warning Do NOT touch the print cartridge ink nozzles or copper contacts. Touching these parts will result in clogs, ink failure, and bad electrical connections. Also, do NOT remove the copper strips; these are required electrical contacts.

6 Push the print cartridge firmly, straight down into the print cartridge cradle.
7 Close the cradle latch. When the latch is fully closed, you will hear a click.

8 Load plain white paper in the IN tray.
9 Close the top cover, then a calibration page will print.

- Any time you install a new print cartridge, the printer software prints a calibration page to ensure your print quality. If you are in the middle of printing and stop to change a print cartridge, the software will wait until your printing has completed before it executes the calibration test.
10 If the Print Cartridge Status Light continues to blink after you install the new print cartridge, check the part number on the print cartridge to ensure you installed the correct one.


## Storing Print Cartridges

To maintain excellent print quality from your print cartridges:

- Keep all print cartridges in their sealed packages, at room temperature ( $60-78^{\circ} \mathrm{F}$ or $15.6-26.6^{\circ} \mathrm{C}$ ), until you are ready to use them.
- Once installed, leave the print cartridges in their cradle at all times to keep them from drying out or becoming clogged.
- Store unsealed print cartridges in an airtight plastic container.
- Do not unplug the printer until printing is complete and the print cartridge cradles have returned to their home position on the right side of the printer. The print cartridges will dry out if not stored in their home position.
- Do not attempt to reattach the vinyl tape previously removed from the print cartridges. Reattaching the tape will damage the cartridges.

[^0]
## Cleaning Print Cartridges

## When Do You Need to Clean?

Clean the print cartridges if your printed page is missing lines or dots, or if it contains ink streaks.

## If You See Missing Lines or Dots...

Clean the print cartridges from the hp deskjet Utility window by doing the following:

1 Double-click the hp deskjet Utility icon in the
 Utilities folder on your hard drive's main directory.

2 Click the Clean panel, then click the Clean button and follow the instructions displayed on your screen.

Note: Unnecessary cleaning wastes ink and shortens the life of the print cartridge.

## If You See Ink Streaks...

Clean the print cartridges and the print cartridge cradle by following the instructions below.
1 Double-click the hp deskjet Utility icon in the Utilities folder on your hard drive's main directory.
2 Click the Clean tab, then click the Clean button. If this does not prevent streaks, follow the instructions for "Manually Cleaning the Print Cartridges" below.

Caution Be careful not to get ink on your hands or clothing.

## Manually Cleaning the Print Cartridges and Print Cartridge Cradle

In order to properly clean the print cartridges and cradle, you will need distilled or bottled water and cotton swabs or a similar lintfree absorbent material that will not stick to the cartridges.

## Manually Cleaning the Print Cartridges

1 Press the Power Button © to turn the printer on, then lift the top cover.
2 After the print cartridges move into an accessible position, unplug the power cord from the back of the printer.

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

3 Remove the print cartridges and set them on a piece of paper with the ink nozzle plate facing up.

## Caution Do NOT touch the print cartridge ink nozzles or copper contacts. Touching these parts will result in clogs, ink failure, and bad electrical connection. Also, do NOT remove the copper strips; these are required electrical contacts.

4 Dip a clean cotton swab into distilled water and squeeze any excess water from the swab.

5 Clean the face and edges of the print cartridge as shown. Do NOT wipe the nozzle plate.


6 Inspect the cartridge for fibers on the face and edges. If fibers are still present, repeat the cleaning process.
7 Repeat the cleaning process for the other print cartridge.
Caution Once you've removed the print cartridges, make sure that they are not outside of the print cartridge cradle longer than 30 minutes.

## Manually Cleaning the Print Cartridge Cradle

1 Using clean, moistened swabs, wipe the underside of each wall of the cradle.
2 Repeat until no ink residue is seen on a clean swab.


3 Reinsert the print cartridges, then close the printer's top cover.
4 Load white paper into the IN tray.
5 Reinsert the electrical power cord into the back of the printer.
6 Print a test page. Double-click the hp deskjet Utility icon in the Utilities folder on your hard drive's main directory, click the Test tab, then click the Test button.

Note: If streaking still appears, repeat the procedure until the test printout is clean. You will find additional maintenance tips at: http://www.hp.com/go/support

## Damage Resulting from Refilling the Print Cartridges

To get the best performance from your printer, Hewlett-Packard recommends using only genuine hp supplies for hp deskjet printers, including genuine factory-filled hp print cartridges.
Damage resulting from the modification or refilling of hp print cartridges is specifically excluded from the coverage of hp printer warranties.

Note: When buying replacement print cartridges, check the part numbers carefully. The print cartridge numbers for your printer are:

- Black hp 51645 series or hp No. 45
- Tri-Color hp C6578 series or hp No. 78


## Problems?

## Troubleshooting Tips

It's frustrating when things go wrong, but the following pages contain tips that can help you determine what the problem is and how to fix it.

- Make sure that all cable connections are secure.
- Make sure that you are using the right cable for your operating system.

If your question is similar to those listed here, follow the instructions found in that section:
(0) The printer software won't install, what's wrong? See page 44.
$\sqrt{x}^{10}$ Why won't it print? See page 46.
溫 What do the flashing lights mean? See page 51 .
Is there a problem with your printout? See page 54.
${ }^{2}$ Is there a problem with your Automatic Two-Sided Printing Module? See page 60.
Ir Is there a problem with infrared (Ir) printing? See page 61.

| What is the problem? | Possible cause | To solve the problem... |
| :---: | :---: | :---: |
| I inserted a CD, but the computer couldn't read it. | - The CD wasn't properly inserted. <br> OR <br> - The CD player may be damaged. <br> OR <br> - The CD may be damaged. | 1 Reinsert the CD and try again. If this doesn't solve your problem go the next step. <br> 2 Try inserting a CD that you know works. If that CD doesn't work, you may need to replace your CD player. <br> 3 If other CDs work but the printer software CD doesn't, you may have a damaged CD. You can download the printer software from an hp web site (see page 62 for web site addresses). <br> 4 If you don't have Web access, contact hp Customer Care. See page 64, to locate the phone number nearest you. |

The printer software won't install, what's wrong? Continued

| What is the problem? | Possible cause | To solve the problem... |
| :---: | :---: | :---: |
| The software did not install correctly. OR You need to uninstall the printer software for any reason. | - There may be a conflict with your virus protection program. OR <br> - There may be a conflict with another software program. <br> OR <br> - There may be a conflict with a peripheral device connected to the printer. | 1 Make sure your printer is on and all connections are secure. <br> 2 Close any virus protection programs that are running on your computer. <br> 3 Insert the printer software CD into your computer, select Uninstall from the Installer, then repeat the installation procedure. <br> 4 If you have been using Apple's QuickDraw GX software, turn it off. Your hp deskjet printer is not compatible with QuickDraw GX. <br> 5 If you are still having problems with the installation, call an authorized hp dealer or hp Customer Care representative. For the phone number of the support center nearest you, see "hp Customer Care by Phone" on page 64. |

## Why won＇t it print？

| What is the problem？ | Possible cause | To solve the problem．．． |
| :---: | :---: | :---: |
| No page came out of the printer． | Power may be off or there may be a loose connection． | 1 Make sure the power is on． <br> 2 Make sure all cable connections are secure． |
|  | You may not have any paper in the IN tray． | Make sure that the media is correctly placed in the IN tray． |
|  | The printer＇s top cover may be open． | Close the printer＇s top cover． |
|  | A problem may exist with one of the print cartridges． | If the Print Cartridge Status Light ⿴囗⿱一兀⿴囗口灬 is blinking，lift the printer＇s cover，check the Print Cartridge Status．Verify that the print cartridges are installed properly．See page 37. |
|  | The printer may be slow． | If the Power Light © is blinking，the printer is in the process of printing．Be patient． |
|  | The printer is waiting for you to press the Resume Button © | If the Resume Light is flashing，press the Resume Button © |

## Why won't it print? Continued

| What is the problem? | Possible cause | To solve the problem... |
| :---: | :---: | :---: |
| No page came out of the printer. <br> (continued) | There may be a paper jam and you are using the Rear Access Door. | 1 Pull the paper out of either the IN tray or the OUT tray. <br> 2 Press the Resume Button (28) on the front of the printer. <br> 3 If you were printing labels, make sure a label did not become unglued from the label sheet while going through the printer. <br> 4 If the paper jam has cleared, print your document again. <br> 5 If the paper jam hasn't cleared, open the Rear Access Door by turning the knob (counter-clockwise) and removing the door. <br> 6 Pull the jammed paper out of the printer, then replace the Rear Access Door. <br> 7 Print your document again. |
|  | There may be a paper jam in the Automatic Two-Sided Printing Module. | 1 Turn your printer off. <br> 2 Press the button on top of the Automatic Two-Sided Printing Module and lower the access door. <br> 3 Pull the jammed paper out of the Module, then close the access door. <br> 4 Turn your printer back on. <br> 5 Print your document again. |


| What is the problem? | Possible cause | To solve the problem... |
| :---: | :---: | :---: |
| No page came out of the printer. <br> (continued) | There is a paper jam in the back of the printer and the Automatic TwoSided Printing Module is attached. | 1 Turn your printer off. <br> 2 Simultaneously press the release buttons, located on each side of the Automatic Two-Sided Printing Module, to remove the Module. <br> 3 Pull the jammed paper out of the printer, then replace the Module (see page 16). <br> 4 Turn your printer back on. <br> 5 Print your document again. |
|  | The Rear Access Door or the Automatic Two-Sided Printing module may be missing. | 1 Attach either the Rear Access Door or the Automatic Two-Sided Printing Module to the back of the printer. <br> 2 Print your document again. |


| What is the problem? | Possible cause | To solve the problem... |
| :---: | :---: | :---: |
| The printer is really slow. | Your computer may have less than minimum system requirements. | 1 Check the amount of RAM and processor speed in your computer. See "System Requirements" on page 72. <br> 2 Free up some space on the computer's hard drive. Having less than 100MB of free space on your computer's hard drive can mean longer processing times. |
|  | You may have several software programs open at the same time. | Close all unnecessary software programs. |
|  | You may be using outdated printer software. | Check the printer driver you are using. Check hp's web site for the most recent software updates (see page 62 for web site addresses). |
|  | You may be printing a complex document that contains graphics or photographs. | Be patient. Large, complex documents containing graphics or photographs print slower than text documents. |
|  | The paper Type option may be set to Automatic. | When the paper type is set to Automatic, the printer scans the first page of a print job to determine the appropriate paper type. This may take a few seconds. To avoid this, choose a specific paper type rather than using the default Automatic setting. See "Automatic Paper-Type Sensor" on page 15. |

Why won't it print? Continued

| What is the problem? | Possible cause | To solve the problem... |
| :---: | :---: | :---: |
| A blank page came out of the printer. | The printer may be out of ink. | 1 Lift the printer cover and check the Print Cartridge status icons to make sure that the printer is not out of ink. See "Print Cartridge Status" on page 35. <br> 2 If the printer is out of ink, replace the print cartridge. See "Replacing Print Cartridges" on page 37. |
|  | You may have forgotten to remove the vinyl tape from the print cartridge. | Make sure that you have removed the protective piece of vinyl tape on each of the print cartridges. See "Replacing Print Cartridges" on page 37. |
|  | You may be trying to print a fax. | 1 Save the fax in a graphic format, such as TIFF. <br> 2 Place it in a word processing document and print it from there. |


| What is the problem? | Possible cause | To solve the problem... |
| :---: | :---: | :---: |
| The Power Light © is flashing. | Your printer may be receiving data. | Be patient. The light will stop flashing when the printer has finished receiving data. |
| The Resume Light ${ }_{\text {© }}$ is flashing. | The printer may be out of paper. | 1 Insert paper. <br> 2 Press the Resume Button (4. |
|  | There may be a paper jam and you are using the Rear Access Door. | 1 Pull the paper out of either the IN tray or the OUT tray. <br> 2 Press the Resume Button © on the front of the printer. <br> 3 If you were printing labels, make sure a label did not become unglued from the label sheet while going through the printer. <br> 4 If the paper jam has cleared, print your document again. <br> 5 If the paper jam hasn't cleared, open the Rear Access Door by turning the knob (counter-clockwise) and removing the door. <br> 6 Pull the jammed paper out of the printer, then replace the Rear Access Door. <br> 7 Print your document again. |


| What do the flashing lights mean? |
| :--- |
| What is the problem? Possible cause To solve the problem... <br> The Resume Light © is flashing. <br> (continued) There may be a paper jam and the <br> Automatic Two-Sided Printing <br> Module is attached. 1 Turn your printer off. <br> 2 Press the button on top of the Automatic Two-Sided Printing Module <br> and lower the access door. <br> 3 Pull the jammed paper out of the Module, then close the access door.   <br> 4 Turn your printer back on.   |


| What is the problem? | Possible cause | To solve the problem... |
| :--- | :--- | :--- |
| All of the upper lights are <br> flashing. | The printer may need to be reset. | 1Press the Power Button © to turn the printer off. Then press the Power <br> Button © again to turn the printer back on. <br> 2 If that doesn't solve the problem, press the Power button to turn the <br> printer off. <br> 3 Unplug the printer. <br> 4 Plug the printer back in. <br> 5 Press the Power Button © to turn the printer on. |
| The infrared light is flashing. | The infrared lens of a PowerBook <br> may be aligned with the infrared <br> lens of the printer. This indicates <br> that a connection has been <br> established between the two <br> devices. | Position the PowerBook: <br> - More than 3 feet (1 meter) from the printer. <br> OR <br> - So that its infrared lens is not aligned with the infrared lens on the printer <br> (there should be more than a 30-degree total angle between the two <br> lenses). |

Is there a problem with your printout?

| What is the problem? | Possible cause | To solve the problem... |
| :---: | :---: | :---: |
| Parts of the document are missing or are in the wrong place. | The paper orientation is incorrect. | Make sure you selected the correct orientation (portrait or landscape) in the Page Setup dialog box. See "Page Setup-Controlling Page Layout" on page 8. |
|  | The paper size is incorrect. | Make sure you selected the correct paper size in the Page Setup dialog box. See "Page Setup-Controlling Page Layout" on page 8. |
|  | The margins are incorrect. | Make sure the margins are within the printable area. See "Minimum Printing Margins" on page 71. |
|  | The number of pages per sheet is incorrect. | Make sure the number of pages per sheet are not set for poster printing. See "Layout" on page 11. |
|  | The text or graphics are not scaled correctly. | Make sure text or graphics are scaled correctly in your document. |
| The document printed at an angle or is off-center. | Paper may not be loaded correctly. | 1 Make sure the media is correctly oriented in the IN tray. <br> 2 Make sure the paper guides fit snugly against the media. |

Is there a problem with your printout? Continued

| What is the problem? | Possible cause | To solve the problem... |
| :---: | :---: | :---: |
| Print quality is poor. | The printer may be running out of ink. | 1 Check the print cartridges status. See "Print Cartridge Status" on page 35. <br> 2 If the printer is running out of ink, replace the print cartridge. See "Replacing Print Cartridges" on page 37. |
|  | You may not be using the best media. | - Make sure that you are using media intended for hp deskjet printers. <br> - Print quality is dramatically improved if you print on paper specifically designed for a certain output (photographs, for example), rather than using plain paper. |
|  | You may be printing on the wrong side of the media. | Make sure that the media is loaded print side down. |
|  | You may not have selected the correct paper type in the printer software. | Make sure that you have selected the correct paper type on the Paper Type/ Quality dialog box. See "Paper Type/Quality" on page 11. |
|  | You may be printing in Draft mode. | Click Normal or Best instead of Draft on the Paper Type/Quality dialog box. See "Paper Type/Quality" on page 11. |

Is there a problem with your printout? Continued

| What | is the problem? | Possible cause | To solve the problem... |
| :---: | :---: | :---: | :---: |
|  | Print quality is poor. (continued) | You may need to clean the print cartridges. | See "Cleaning Print Cartridges" on page 39. |
|  |  | You may have forgotten to remove the vinyl tape from the print cartridge. | Make sure that you have removed the protective piece of vinyl tape on each of the print cartridges. See "Replacing Print Cartridges" on page 37. |
|  |  | The print cartridges may be out of alignment. | If the color and black ink aren't lining up on the printed page, go to the hp deskjet Utility located in the Utilities folder in your hard drive's main directory, click the Calibrate tab, then click the Align button. See "hp deskjet 900 Utility" on page 7. |
|  |  | If the print is smearing, you may be using too much ink. | Click Normal or Draft instead of Best on the Paper Type/Quality dialog box. See "Paper Type/Quality" on page 11. You may also want to decrease ink Density or increase Dry Time. <br> 1 Choose Print from the File menu. <br> 2 Choose Ink Controls from the General menu. <br> 3 Use the sliders to adjust ink density and ink drying time. |

Is there a problem with your printout? Continued

| What is the problem? | Possible cause | To solve the problem... |
| :---: | :---: | :---: |
| Banners aren't printing correctly. | You may have forgotten to raise the OUT tray. | Make sure that the OUT tray is up. |
|  | You may have forgotten to select Banner in the printer software. | Make sure you selected the paper size U.S. Letter Banner or A4 Banner on the Page Setup dialog box. See "Page Setup-Controlling Page Layout" on page 8. |
|  | You may have problems with the paper. | - If several sheets feed into the printer together, unfold and refold the paper. <br> - If paper doesn't feed into the printer correctly, be sure that the unattached edge of the banner paper stack is toward the printer. <br> - If the paper creases going through the printer, the paper might be unsuitable for banner printing. |

Is there a problem with your printout? Continued

| What is the problem? | Possible cause | To solve the problem... |
| :---: | :---: | :---: |
| Photos aren't printing correctly. | You may not have inserted the photo paper correctly. | Insert the photo media glossy side down. |
|  | The photo paper may not be fully engaged. | 1 Insert the photo paper as far as it will go into the IN tray. <br> 2 Make sure that the paper guides rest snugly against the photo paper. |
|  | You may not have selected the appropriate Paper Type/Quality. | 1 Go to the Paper/Type Quality dialog box. See "Paper Type/Quality" on page 11. <br> 2 Select HP Photo Paper as the Paper Type. <br> 3 Select Best as the Quality type. <br> 4 Select High Res Photo for better print resolution. |
|  | The photo may not be in an electronic (digital) format. | Take a digital picture, scan a photo, or get an electronic file of your photo from a camera shop. |
| When the paper type defaults to Automatic, the print quality looks different. | When the paper type defaults to Automatic, the print quality is automatically set to Normal. If the Paper Type is set to a specific paper type, the print Quality may be set. | After selecting the Paper Type, choose the desired print Quality. See "Paper Type/Quality" on page 11. |

Is there a problem with your printout? Continued

| What is the problem? | Possible cause | To solve the problem... |
| :--- | :--- | :--- |
| Automatic is set as the paper <br> type, but the printer does not <br> use the optimal paper mode. | The paper may be marked, <br> scratched, or wrinkled. | The Automatic Paper-Type Sensor is less accurate if the paper is damaged. <br> Make sure the paper is free of marks, scratches, or wrinkles. |
|  | The paper may be letterhead or <br> stationary with a preprinted pattern <br> at the top edge. | - The Automatic Paper-Type Sensor always sets this type of letterhead or <br> stationary to Plain Paper. <br> - Manually select the appropriate paper type. See "Paper Type/Quality" <br> on page ll. |
|  | The paper may be dark in color or <br> contain metallic fibers. | - The Automatic Paper-Type Sensor may set this type of media to Plain <br> Paper. <br> - Manually select the appropriate paper type. See "Paper Type/Quality" <br> on page ll. |
| Automatic is set as the paper <br> type, but when preparing to <br> print, the printer ejects a blank <br> sheet of paper. | The printer may have been placed <br> in direct sunlight, which affects the <br> Automatic Paper-Type Sensor. | Move the printer out of the direct sunlight. <br> Paper falls to the floor after <br> printing.The OUT Tray Extension may not <br> be pulled out. |

## Is there a problem with your Automatic Two-Sided Printing Module?

| What is the problem? | Possible cause | To solve the problem... |
| :---: | :---: | :---: |
| You can't select the Automatic option in the Print Both Sides option on the Layout dialog box. | You may not have enabled the Automatic Two-Sided Printing Module. | 1 From the File menu, select Page Setup. <br> 2 Check the Two Sided Safe Margins box, then click OK. <br> 3 From the File menu, select Print. <br> 4 Choose Layout from the General pop-up menu. See "Print Dialog Box" on page 9 for instructions. <br> 5 In the Layout dialog box, check the Print Both Sides box, and select Automatic. <br> 6 Click on either the Book or Tablet icon to choose the correct page orientation. <br> 7 Make any other formatting selections from other Print dialog boxes, then click Print. |
| Print Both Sides was selected, but printing is only on one side of the paper. | - You may not have selected Print Both Sides on the Layout dialog box. <br> - You may have selected an unsupported media size. | 1 Detach, then reattach the Automatic Two-Sided Printing Module. See "Automatic Two-Sided Printing" on page 16. <br> 2 Make sure you selected Automatic on the Layout dialog box. See "Layout" on page 11. <br> 3 Turn Background Printing on. See "Background Printing" on page 13. |
| In Two Sided-Printing, the binding margin appears in the wrong place. | - You may not have chosen the correct paper orientation. <br> - You may not have chosen the correct binding option. | 1 Check the Page Setup dialog box to ensure you have checked Two Sided Safe Margins and selected the correct paper orientation. See "Page Setup-Controlling Page Layout" on page 8. <br> 2 Make sure you selected the right Binding option in the Layout dialog box. See "Layout" on page 11. |

Is there a problem with infrared (Ir) printing?

| What is the problem? | Possible cause | To solve the problem... |
| :---: | :---: | :---: |
| A connection cannot be established or the transmission seems to be taking longer than usual. | The device from which you are trying to print may not be IrDA compliant. | - Make sure the device is IrDA compliant. <br> - Look for an IrDA symbol or refer to the user's guide for reference. |
|  | Your PowerBook may not be setup to communicate with an infrared printer. | Make sure your PowerBook is setup to print. See "Printing from a PowerBook" on page 19. |
|  | The device from which you are trying to print and the printer are not positioned properly. | - Position the device from which you are printing up to 3 feet (1 meter) from the printer and with a 30-degree total angle from the printer's infrared lens. <br> - Make sure that the path between the two infrared devices is clear of obstacles. <br> - Make sure that the two infrared lenses are clean-free from dirt and grease. |
| A connection cannot be established or the transmission seems to be taking longer than usual. | Bright lights may be interfering with the signal. | - Make sure that no bright light is shinning directly into either infrared lens. <br> - Position the device from which you are printing closer to the infrared lens on the printer. |
| The printer prints only part of a page or document. | The device from which you are printing may have been moved out of range of the printer's infrared lens. | - Try to realign the devices within approximately 3-30 seconds. <br> - If the print job does not resume, you must begin the print process again. |
| Your Palm Pilot is only able to print a single calendar appointment. | Your Palm Pilot may not have a printing application installed. | A printing application must be installed in order to print more than one calendar appointment at a time. |

## hp Customer Care

hp deskjet printers set the standard for quality and reliability, so you have made an excellent choice. Should you need help, however, hp Customer Care's award-winning service and support is nearby to provide expert advice on using your hp printer or to answer specific questions about a problem you are having. Whether online or by phone, you'll find the support you need-and you'll find it fast.


## hp Customer Care Online

Click your way to a quick solution! hp Customer Care Online is a great place to go for answers to questions about your hp products. You'll get instant access to everything from helpful printing tips to the latest product and software updates- 24 hours a day, seven days a week, all at no charge to you.

If you have a modem connected to your computer and subscribe to an online service or have direct access to the Internet, you can obtain a wide variety of information about your printer at the following web sites:

| English: | http://www.hp.com/go/support |
| :--- | :--- |
| French: | http://www.hp.com/cposupport/fr |
| German: | http://www.hp.com/cposupport/de |
| Japanese: | http://www.jpn.hp.com/CPO_TC/eschome.htm |
| Portuguese: | http://www.hp.com/cposupport/pt |
| Spanish: | http://www.hp.com/cposupport/es |
| Swedish | http://www.hp.com/cposupport/sv |

To choose your country or language, access hp Customer Care Online at http://www.hp.com/apcpo-support/regional.html. From there you can link to hp Customer Care User Forums and hp Customer Care Email. Go to the page for your product (for example, hp deskjet 990c). and then choose Connect with hp.

## hp Customer Care Online continued

hp Customer Care User Forums

They're friendly. They're informative. Check out our online user forums. Simply review existing messages left by other hp users to find the answers you're looking for. You can also post your questions, then check back later for ideas and suggestions from knowledgeable users and system operators.

## hp Customer Care by Email

Connect with hp via email and receive a personal reply from an hp Customer Care service technician. Responses are normally provided within 24 hours of receipt (excluding holidays). A great option for those non-urgent questions. To send an email, go to http://contact.external.hp.com/support/menu/menu-post.html.

## Printer Software

Printer software (also referred to as a printer driver) allows your printer to talk with your computer. hp provides several options for getting printer software and updates:

- Download the printer software by accessing hp's Customer Care Online web site. See "hp Customer Care Online" on page 62 for addresses of the hp web sites.
- If you are in the U.S. and need a software update, you can download the printer software from hp's web site at: http://www.hp.com/go/support. If you do not have access to the web site, call (661) 257-5565. Software updates are available for the cost of the CDs plus shipping.
- If you are outside the U.S. and cannot download the driver from hp's web site, call the hp Customer Care Center nearest you. See page 64.


## hp Customer Care Repair

If your hp printer is ever in need of repair, simply call the hp Customer Care Center. A trained service technician will diagnose the problem and coordinate the repair process for you. This service is free during your printer's limited warranty period. Beyond the warranty period, repairs are charged on a time and materials basis.

## hp Customer Care by Phone

Within one year from the time of your purchase, telephone support is provided to you free of charge. However, if you are calling long distance, long-distance charges may apply.

Before placing a call for help, please make sure that:
1 You have checked your Quick Start Poster and this User's Guide for installation and troubleshooting tips.
2 You have checked hp Customer Care Online (see page 62) for product help.
3 If you cannot solve your problem using the above, then call an hp service technician while you're in front of your computer and
printer. Before you call, be sure you have the following information:

- Your printer's serial number (the label is on the printer's bottom).
- Your printer's model number (the label is on the front of the printer).
- The model of the computer.
- The version of the printer software and software program (if applicable).

Then we can help you with your questions immediately!

Problems?: hp Customer Care
See the list below, or refer to hp's web sit at: http://www.hp.com/cposupport/mail_support.html for your country's hp Customer Care Center phone number:

- Argentina
- Australia
- Austria
- Belgium (Dutch)
- Belgium (French)
- Brazil
- Canada
- Chile
- China
- Czech Republic
- Denmark
- English International
- Finland
- France
- Germany
- Greece
- Hong Kong
- Hungary
- India
- Indonesia
- Ireland
- Israel
- Italy
- Japan
(541) 778-8380
+61388778000
+43 (0) 7114201080
+32 (0)2 6268806
+32 (0)2 6268807
011 829-6612
(905) 206-4663

800360999
+86 (0) 1065645959
+42 (0)2 61307310
+45 (0) 39294099
+44 (0) 1715125202
+358 (0) 20347288
+33 (0) 143623434
+49 (0) 1805258143
+30 (0) 16196411
(800) 967729
+36 (0) 13821111
+91116826035
+62 (21) 3503408
+353 (0) 16625525
+972-(0)-9-9524848
+39 (0) 226410350
+81 $3335-8333$

- Korea
- Korea, outside Seoul
- Malaysia
- Malaysia, Penang
- Mexico
- Netherlands
- New Zealand
- Norway
- Philippines
- Poland
- Portugal
- Republic of South Africa, inside RSA
- Republic of South Africa, outside RSA
- Russia, Moscow
- Russia, St. Petersburg
- Singapore
- Spain
- Sweden
- Switzerland
- Taiwan
- Thailand
- Turkey
- United Kingdom
- U.S.
- Venezuela
- Vietnam
+82 (2) 32700700
0809990700
+60 (3) 2952566
1300880028
018004726684
+31 (0) 206068751
+64 (9) 356-6640
+4722 116299
+66 (2) 8673551
+48225190600
+351213186333
0860001030
+27-11 2589301
+7 0957973520
+78123467997
+65 2725300
+34 902321123
+46(0) 86192170
+41 (0) 848801111
+886 2-2717-0055
+66 (2) 6614011
+90 (0) 2122216969
+44 (0) 2075125202
(208) 344-4131

80047888
+84 (0) 88234530

## After the Free Phone Support Period

You can still get help from hp for a fee. Prices are subject to change without notice. hp Customer Care Online help (page 62) on the internet is still available for free!)

- For quick questions in the United States only, call (900) 5551500 . The charges are $\$ 2.50$ per minute and begin when you connect with a service technician.
- For calls from Canada, or for calls in the U.S. that you anticipate might be longer than ten minutes in length, call (800) 999-1148. The fee is US $\$ 25$ per call, charged to your Visa or MasterCard.
- If, during your phone call, it is determined that your printer requires repair and you are within your printer's Limited Warranty period (see the "Limited Warranty Statement" on page 79), you will not be charged for the phone support service. However, for countries where the above toll-free phone numbers are not available, the regular long-distance charges may apply.


## Extended Warranty Options

If you would like to extend your printer coverage beyond the limited warranty period, you have the following options:

- Consult your reseller to get extended coverage.
- If your reseller does not offer service contracts, please call hp directly and ask about our hp Service Agreements. In the U.S., call (800) 446-0522; in Canada, call (800) 268-1221. For hp Service Agreements outside the U.S. and Canada, contact your local hp Sales Office.


# More About Your Printer 

## Specifications

hp deskJet 990cxi model no. C6455A hp deskjet 990cse model no. C6455B

## Black Text Print Speed *

Draft:
up to 17 pages per min.
Mixed Text with Color Graphics Print Speed * Draft:
up to 13 pages per min.
Black TrueType ${ }^{\text {TM }}$ Text Resolution (depends on paper type)

| Draft: | $300 \times 300 \mathrm{dpi}$ |
| :--- | :--- |
| Normal: | $600 \times 600 \mathrm{dpi}$ |
| Best: | $600 \times 600 \mathrm{dpi}$ |

Color Resolution (depends on paper type)
$\begin{array}{ll}\text { Draft: } & 300 \times 300 \mathrm{dpi} \\ \text { Normal: } & \text { PhotoREt }\end{array}$
Normal: PhotoREt
PhotoREt

* Approximate figures. Exact speed will vary depending on the system configuration, software programs, and document complexity.


## Photo paper Printing Resolution

$2400 \times 1200$ dpi + PhotoREt

## Print Technology

Drop-on-demand thermal inkjet printing

## Software Compatibility

USB Connection: MacOS version 8.6 or later AppleTalk Connection: MacOS version 7.6.1 or later

## Memory

8MB built-in RAM
Duty Cycle
5,000 pages per month

## Buttons/Lights

Cancel Button
Print Cartridge Status Light
Resume Button and Light
Power Button and Light
Infrared Light

## I/O Interface

Universal Serial Bus
Infrared Port

## Dimensions

With Automatic Two-Sided Printing Module: 440 mm wide x 196 mm high x 435 mm deep 17.32 in wide $\times 7.72$ in high $\times 17.13$ in deep

Without Automatic Two-Sided Printing Module: 440 mm wide $\times 196 \mathrm{~mm}$ high $\times 375 \mathrm{~mm}$ deep
17.32 in wide $\times 7.72$ in high $\times 14.76$ in deep

## Weight

With Automatic Two-Sided Printing Module: $6.65 \mathrm{~kg}, 14.65 \mathrm{lbs}$ without print cartridges

## More About Your Printer: Specifications

## Operating Environment

Maximum operating conditions:
Temperature: $\quad 41$ to $104^{\circ} \mathrm{F}, 5$ to $40^{\circ} \mathrm{C}$
Humidity: $\quad 15$ to $80 \%$ RH noncondensing
Recommended operating conditions for best print quality:
Temperature: 59 to $95^{\circ} \mathrm{F}$ or 15 to $35^{\circ} \mathrm{C}$
Humidity: 20 to $80 \%$ RH noncondensing
Storage conditions:
Temperature: $\quad-40$ to $140^{\circ} \mathrm{F},-40$ to $60^{\circ} \mathrm{C}$

## Power Consumption

2 watts maximum when off
4 watts average non-printing
40 watts average when printing

## Power Requirements

Input Voltage: $\quad 100$ to 240 VAC ( $\pm 10 \%$ )
Input Frequency: $\quad 50 / 60 \mathrm{~Hz}(+3 \mathrm{~Hz})$
Automatically accommodates the world-wide range of AC
line voltages and frequencies.

## Declared noise emissions in accordance

## with ISO 9296

Sound power level, LWAd ( $1 \mathrm{~B}=10 \mathrm{~dB}$ ):
6 B in normal mode.
Sound pressure level, LpAm (bystander positions):
47 dB in normal mode.

## Alignment

| Skew: | $+/-.006 \mathrm{~mm} / \mathrm{mm}(.006 \mathrm{in} / \mathrm{in})$ on plain paper |
| :--- | :--- |
|  | $+/-.012 \mathrm{~mm} / \mathrm{mm}(.012 \mathrm{in} / \mathrm{in})$ on hp transparency |
|  | films |

## Media Weight

Paper:
U.S. Letter $\quad 60$ to $90 \mathrm{~g} / \mathrm{m}^{2}$ (16 to 24 lb )

Legal $\quad 75$ to $90 \mathrm{~g} / \mathrm{m} 2$ (20 to 24 lb$)$
Envelopes: $\quad 75$ to $90 \mathrm{~g} / \mathrm{m}^{2}$ (20 to 24 lb$)$
Cards:
Banner Paper:
Up to $200 \mathrm{~g} / \mathrm{m}^{2}$ (110 lb index max)
60 to $90 \mathrm{~g} / \mathrm{m}^{2}$ ( 16 to 24 lb )

## Media Handling

Sheets:
Banners:
Envelopes:
Cards:
Greeting cards:
Transparencies
Labels:

Photo paper:
OUT tray
capacity:
up to 150
up to 20 sheets
up to 15
up to 45 cards
up to 5 cards
up to 30
up to 20 sheets of labels (use only
U.S. letter- or A4-sized sheets)
up to 20 sheets
Draft - up to 35 sheets
Norma//Best - up to 50 sheets

| Media Size |  |
| :---: | :---: |
| Paper: |  |
| U.S. Letter | $216 \times 279 \mathrm{~mm}$ ( $8.5 \times 11 \mathrm{in}$. |
| Legal | $216 \times 356 \mathrm{~mm}$ ( $8.5 \times 14 \mathrm{in}$. |
| Executive | $184 \times 279 \mathrm{~mm}$ ( $7.25 \times 10.5 \mathrm{in}$.) |
| A4 | $210 \times 297 \mathrm{~mm}$ |
| A5 | $148 \times 210 \mathrm{~mm}$ |
| B5-JIS | $182 \times 257 \mathrm{~mm}$ |
| User Defined: |  |
| Width | 77 to 216 mm (3.0 to 8.5 in .) |
| Height | 127 to 356 mm |
|  | (5.0 to 14 in.) |
| Banner: |  |
| U.S. Letter | $216 \times 279 \mathrm{~mm}$ ( $8.5 \times 11 \mathrm{in}$. |
| A4 | $210 \times 297 \mathrm{~mm}$ |
| Envelopes: |  |
| U.S. No. 10 | $105 \times 241 \mathrm{~mm}(4.3 \times 9.5 \mathrm{in}$. $)$ |
| Invitation A2 | $111 \times 146 \mathrm{~mm}$ ( $4.37 \times 5.75 \mathrm{in}$ ) |
| DL | $220 \times 110 \mathrm{~mm}$ |
| C6 | $114 \times 162 \mathrm{~mm}$ |
| Index/Greeting Cards: | $76 \times 127 \mathrm{~mm}$ ( $3 \times 5 \mathrm{in}$.) |
|  | $102 \times 152 \mathrm{~mm}$ ( $4 \times 6 \mathrm{in}$.) |
|  | $127 \times 203 \mathrm{~mm}(5 \times 8 \mathrm{in}$.) |
| A6: | $105 \times 148.5 \mathrm{~mm}$ |
| Hagaki: | $100 \times 148 \mathrm{~mm}$ |
| Labels: |  |
| U.S. Letter | $216 \times 279 \mathrm{~mm}$ ( $8.5 \times 11 \mathrm{in}$.) |
| A4 | $210 \times 297 \mathrm{~mm}$ |
| Transparencies: |  |
| U.S. Letter | $216 \times 279 \mathrm{~mm}$ ( $8.5 \times 11 \mathrm{in}$. |
| A4 | $210 \times 297 \mathrm{~mm}$ |
| Photo (with tear-off tab) | $102 \times 152 \mathrm{~mm}$ ( $4 \times 6 \mathrm{in}$.) |

More About Your Printer: Specifications

## Infrared Printing Specifications

## Range

3 feet (1 meter)

## Supported Operating Systems

Some of the operating systems supported by infrared include:

MacOS version 8.6
Palm

## Supported Devices

Some of the devices supported by infrared include:
PowerBook computers with infrared capability
Some Personal Digital Assistants (including the Palm product line
Digital cameras with infrared capability
Cellular phone with infrared capability

## Supported Protocols

IrLPT
JetSend
OBex

## Automatic Two-Sided Printing <br> Module Specifications

Automatic Two-Sided Printing Module model no. C6463A

## Duty Cycle

5,000 sides of pages per month

## Dimensions

324 mm ( 12.75 in .) long x 133 mm ( 5.25 in .)
wide $x 111 \mathrm{~mm}$ (4.37 in.) high

## Weight

$0.79 \mathrm{~kg}(1.75 \mathrm{lbs}$.
Declared noise emissions in accordance with ISO
9296
6.1 B in normal node.

Sound pressure level, LpAm (bystander positions):
48 dB in normal mode.

## Media Weight

Letter and A4 paper: 60 to $90 \mathrm{~g} / \mathrm{m}^{2}$ ( 16 to 24 lb .)
Cards: up to $160 \mathrm{~g} / \mathrm{m}^{2}$ ( 90 lb . index maximum)

## Minimum Printing Margins

## Letter and Executive

Left and right margins 0.25 in . ( 6.4 mm )
Top and bottom margins 0.46 in . $(11.7 \mathrm{~mm}$ )
A4-size
Left and right margins $\quad 3.4 \mathrm{~mm}$ ( 0.134 in .)
Top and bottom margins $\quad 11.7 \mathrm{~mm}$ ( 0.46 in .)
A5, B5, $5 \times 8$ in. Card, and User Defined Size
Left and right margins $\quad 3.2 \mathrm{~mm}$ ( 0.125 in.$)$
Top and bottom margins 11.7 mm ( 0.46 in .)

| Media Size | hp Felt-textured Greeting Card Paper, |
| :---: | :---: |
| Paper: | Ivory/ Half-fold |
| Letter $8.5 \times 11 \mathrm{in}$. ( $216 \times 279 \mathrm{~mm}$ ) | Letter-size, 20 sheets, C6828A |
| Executive $7.25 \times 10.5 \mathrm{in}$. $(184 \times 279 \mathrm{~mm}$ ) | 20 envelopes |
| A4 ( $210 \times 297 \mathrm{~mm}$ ) |  |
| A5 ( $148 \times 210 \mathrm{~mm}$ ) | hp Professional Brochure \& Flyer Paper, Two-Sided Gloss |
| B5 (182 x 257 mm ) | Letter-size, 50 sheets C6817A |
| Cards: | A4-size, 50 sheets (Europe) C6818A |
| $5 \times 8$ in. (127 x 203 mm ) | A4-size, 50 sheets (Asia) C6819A |
| User Defined Size: | hp Professional Brochure \& Flyer Paper, Two |
| Minimum $\quad 100 \mathrm{~mm} \times 148 \mathrm{~mm}$ | Finish |
| $3.94 \text { in x } 5.83 \text { in. }$ | Letter-size, 50 sheets C6955A |
| Maximum $216 \mathrm{~mm} \times 297 \mathrm{~mm}$ | Letter-size, 50 sheets C6O5SA |
| 8.5 in x 11.7 in . | * Media availability varies by country. |
| Media Type * | Note: The "hp Photo Paper, Two-Sided, Satin/Glossy" and |
| Plain paper | are not supported by the Automatic Two-Sided Printing |
| hp Bright White Inkjet Paper | module due to longer dry times. |
| Letter-size, 500 sheets C1824A |  |
| A4-size, 500 sheets C1825A |  |
| Letter-size, 250 sheets C5976B |  |
| A4-size, 250 sheets C5977B |  |
| hp Photo Quality Inkjet Paper, Matte Finish |  |
| Letter-size, 100 sheets C7007A |  |
| hp Photo Quality Inkjet Paper, Semi Gloss |  |
| Letter-size, 25 sheets C6983A |  |
| A4-size, 25 sheets (Europe) C6984A |  |
| A4-size, 25 sheets (Asia) CC7006A |  |
| hp Premium Inkjet Heavyweight Paper |  |
| A-4-size, 100 sheets C1853A |  |

## Minimum Printing Margins

The printer cannot print outside a certain area of the page, so you must make sure the contents of your document fall within the printable area.

When you use nonstandard paper sizes and select the Custom Paper Size setting from the Page Setup window, the paper width must be between 3 and 8.5 inches ( 77 and 215 mm ) and the paper length must be between 3 and 14 inches ( 77 and 356 mm ).

These margins do not apply when you are using the Automatic Two-Sided Printing Module.

| Paper Size | Left and Right Margins | Top Margin | Bottom Margin |
| :---: | :---: | :---: | :---: |
| A4 Paper | 3.4 mm (0.134 in.) | 1.8 mm (0.07 in.) | 11.7 mm (0.46 in.) |
| Letter, Legal, and Executive Paper | 6.4 mm (0.25 in.) | 1.8 mm (0.07 in.) | 11.7 mm (0.46 in.) |
| A5, B5, and Custom Paper Size | 3.2 mm (0.125 in.) | 1.8 mm (0.07 in.) | 11.7 mm (0.46 in.) |
| Cards ( $3 \times 5$ in, $4 \times 6,5 \times 8$, and A6) | 3.2 mm (0.125 in.) | 1.8 mm (0.07 in.) | 11.7 mm (0.46 in.) |
| Hagaki postcards | 3.2 mm (0.125 in.) | 1.8 mm (0.07 in.) | 11.7 mm (0.46 in.) |
| Envelopes | 3.2 mm (0.125 in,) | 1.8 mm (0.07 in.) | 11.7 mm (0.46 in.) |
| Banners: A4 ( $210 \times 297$ mm, $8.27 \times 11.7 \mathrm{in}$.) | 3.4 mm (0.134 in.) | 0.0 mm (0.00 in.) | 0.0 mm (0.00 in.) |
| Banners: Letter ( $8.5 \times 11 \mathrm{in}$.) | 6.4 mm (0.25 in.) | 0.0 mm (0.00 in.) | 0.0 mm (0.00 in.) |
| Photo with tear-off tab $112 \times 152 \mathrm{~mm}(4 \times 6.5 \mathrm{in}$.) | 3.2 mm (0.125 in.) | 3.2mm (0.125 in.) | 3.2mm (0.125 in.) |

## System Requirements

Be sure your computer meets the following system requirements:

## USB Connection:

PowerPC MacOS-based computer with a USB port
MacOS version 8.6 or later
Minimum 32 MB RAM, 64 MB recommended
8 MB (minimum) available hard-disk space

## AppleTalk Connection:

68030 or 68040 Mac or PowerPC MacOS-based computer
MacOS version 7.6.1 or later
Minimum 32 MB RAM, 64 MB recommended
8 MB (minimum) available hard-disk space

## Supplies and Accessories

For ordering information see page 76 .

| Part Name | Part Number |
| :---: | :---: |
| Interface Cables |  |
| hp IEEE 1284-Compliant Parallel Interface Cable (with one 1284-A connector for the computer port and one $1284-B$ connector for the printer port) |  |
| 2-meter length | C2950A |
| 3-meter length | C2951A |
| hp USB-Compliant Interface Cable | C6518A |
| hp jetdirect Print Servers |  |
| hp jetdirect 300X External Print Server-Ethernet/802.3 RJ-45 (10Base-T/100Base-Tx) Single Port | J3263 |
| Print Cartridges |  |
| - Black | hp 51645A series or hp No. 45 |
| - Tri-color | hp 6578D series or hp No. 78 |


| Part Name | Part Number |
| :--- | :--- |
| Power Cords |  |
| U.S., Canada, Brazil, Latin America, Saudi Arabia | $8120-8330$ |
| Japan | $8120-8336$ |
| Singapore, Malaysia, Hong Kong | $8120-8341$ |
| South Africa | $8120-8347$ |
| India | $8120-8345$ |
| Argentina, Australia | $8120-8337$ |
| China, Taiwan, Philippines | $8120-8346$ |
| Korea | $8121-8339$ |
| Europe, Jordan, Lebanon, North Africa, Israel, Russia, Baltic | $8120-8340$ |
| countries, Thailand, Indonesia, Caribbean, Latin America | $8121-0022$ |
| U.K., Middle East | C6426-60038 |
| Other Replaceable Parts |  |
| DJ990C Series Printer Cleanout Access Door Assembly | C6463A |
| Accessories |  |

## Printer Quick Start Posters and User's Guides for Macintosh

Most hp printer documentation is available for viewing and printing at http://www.hp.com/support/home_products.

|  | Part Numbers |  |
| :--- | :--- | :--- |
| Language | Quick Start Posters | User Guides |
| Dutch | C6455-90046 | C6455-90092 |
| English | C6455-90046 | C6455-90086 |
| French | C6455-90046 | C6455-90087 |
| German | C6455-90046 | C6455-90088 |
| Italian | C6455-90046 | C6455-90091 |
| Japanese | C6455-90047 | C6455-90094 |
| Portuguese | C6455-90046 | C6455-90090 |
| Spanish | C6455-90046 | C6455-90089 |
| Swedish | C6455-90046 | C6455-90093 |

## Paper and Other Media

Availability of special media varies by country.

| Paper Type/Description | Part Number |
| :---: | :---: |
| HPHP Bright White InkJet Paper |  |
| A4 ( $210 \times 297 \mathrm{~mm}$ ), 200 sheets | C5977B |
| A4 ( $210 \times 297 \mathrm{~mm}$ ), 500 sheets | C1825A |
| U.S. letter, 250 sheets | C5976B |
| U.S. letter, 500 sheets | C1824A |
| HP Premium InkJet Paper |  |
| A4 ( $210 \times 297 \mathrm{~mm}$ ), 200 sheets | C51634Z |
| U.S. letter, 200 sheets | C51634Y |
| HP Premium InkJet Heavyweight Paper |  |
| A4 ( $210 \times 297 \mathrm{~mm}$ ), 100 sheets | C1853A |
| HP Professional Brochure \& Flyer Paper, Matte Finish* |  |
| U.S. letter, 50 sheets | C6955A |
| HP Professional Brochure \& Flyer Paper, Tw0-Sided Gloss* |  |
| Asian A4 ( $210 \times 297 \mathrm{~mm}$ ), 50 sheets | C6819A |
| European A4 ( $210 \times 297 \mathrm{~mm}$ ), 50 sheets | C6818A |
| U.S. letter, 50 sheets | C6817A |
| HP Photo Paper, Two-Sided, Satin/Glossy |  |
| Asian A4 ( $210 \times 297 \mathrm{~mm}$ ), 20 sheets | C6765A |
| European A4 ( $210 \times 297 \mathrm{~mm}$ ), 20 sheets | C1847A |
| U.S. letter, 20 sheets | C1846A |


| Paper Type/Description | Part Number | Paper Type/Description | Part Number |
| :---: | :---: | :---: | :---: |
| HP Premium Photo Paper, Glossy | HP Felt-textured Greeting Cards, Ivory/Half-fold* |  |  |
| Asian A4 ( $210 \times 297 \mathrm{~mm}$ ), 15 sheets | C6043A | U.S. letter, 20 sheets, 20 envelopes | C6828A |
| European A4 ( $210 \times 297 \mathrm{~mm}$ ), 15 sheets | C6040A | HP Glossy Greeting Cards, White/Half-fold |  |
| U.S. letter, 15 sheets | C6039A |  |  |
|  |  | A4 ( $210 \times 297 \mathrm{~mm}$ ) 10 sheets, 10 envelopes | C6045A |
| HP Premium Plus Photo Paper, Glossy |  | U.S. letter, 10 sheets, 10 envelopes | C6044A |
| A4 ( $210 \times 297 \mathrm{~mm}$ ), 20 sheets | C6832A | HP Iron-on T-Shirt Transfers |  |
| U.S. letter, 20 sheets | C6831A |  |  |
|  |  | Asian A4, ( $210 \times 297 \mathrm{~mm}$ ), 10 sheets | C6065A |
| HP Premium Plus Photo Paper, Matte |  | European A4 ( $210 \times 297 \mathrm{~mm}$ ), 10 sheets | C6050A |
| A4 ( $210 \times 297 \mathrm{~mm}$ ), 20 sheets | C6951A | U.S. letter, 10 sheets | C6049A |
| U.S. letter, 20 sheets | C6950A | HP Restickables, Large Round Inkjet Stickers |  |
| HP Premium Plus Photo Paper, Glossy |  | U.S. letter, 10 sheets (90 stickers) | C6822A |
| A4 ( $102 \times 152 \mathrm{~mm}$ finished size), 20 sheets | C6945A | HP Restickables, Large Square Inkjet Stickers |  |
| U.S. ( $4 \times 6$ in. finished size), 20 sheets | C6944A |  |  |
| HP Premium Inkjet Transparency Film |  | U.S. letter, 10 sheets (90 stickers) | C6823A |
| A4 $(210 \times 297 \mathrm{~mm}), 20$ sheets | C3832A | HP Photo Quality Inkjet Paper, Matte Finish* |  |
| A4 $(210 \times 297 \mathrm{~mm}), 50$ sheets | C3835A | U.S. letter, 100 sheets | C7007A |
| U.S. letter, 20 sheets | C3828A | HP Photo Quality Inkjet Paper, Semi Gloss* |  |
| U.S. letter, 50 sheets | C3834A | Asian A4, ( $210 \times 297 \mathrm{~mm}$ ) , 25 sheets | C7006A |
| HP Banner Paper |  | European A4 ( $210 \times 297 \mathrm{~mm}$ ), 25 sheets | C6984A |
| A4 $(210 \times 297 \mathrm{~mm}), 100$ sheets | C1821A | U.S. letter, 25 sheets | C6983A |
| U.S. letter, 100 sheets | C1820A |  |  |
| HP Matte Greeting Cards, White/Quarter-fold |  | * These paper types are supported by the Automatic Two-Sided Printing Module. |  |
| A4 ( $210 \times 297 \mathrm{~mm}$ ), 20 sheets, 20 envelopes | C6042A | Note: To find out which recycled papers are recommended for |  |
| U.S. letter, 20 sheets, 20 envelopes | C1812A | your printer, contact your local hp Sales Office and ask for the |  |

## Ordering Information

To order printer supplies or accessories, call your nearest hp dealer or call hp DIRECT at the following numbers for fast shipping service.

In the U.S., you can buy supplies and accessories directly from hp at www.hpshopping.com, or call the hp Shopping Village at 1-888-999-4747.

- Argentina: (54 1) 787-7100

Fax: (54 1) 787-7213
Hewlett-Packard Argentina,
Buenos Aires, Argentina

- Australia/New Zealand: (03) 895-2895

China Resources Bldg.
26 Harbour Road
Wanchai, Hong Kong

- Austria-South-East Area:

43 (0) 7114201080
Fax: (43-0222) 25 000, ext. 610
Hewlett-Packard Ges.m.b.H

- Ersattzteilverkauf Lieblg. 1

A-1222 Wien

- Belgium: 02/778 3092 (or 3090, 3091)

Fax: 02/778 3076
Hewlett-Packard Belgium SA/NV
100 bd. de la Woluwe/Woluwedal
1200 BRUXELLES

- Brazil: Centro de Informacoes hp Demais Localidades: 0800-157751 Fax: (011) 829-7116 Centro de Informacoes hp Hewlett Packard Brasil S.A.
Caixa Postal 134, Rua Clodomiro Amazonas, 258
CEP 04534-O11, São Paulo - SP
- Canada: (800) 387-3154, (905) 206-4725

Fax: (905) 206-3485/-3739
Hewlett-Packard (Canada) Ltd.
5150 Spectrum Way
Mississauga, Ontario L4W 5G1
Toronto: (416) 671-8383

- Chile: (56 2) 203-3233

Fax: (56 2) 203-3234
Hewlett-Packard de Chile SA
Av. Andres Bello 2777, Oficina 1302
Los Condes, Santiago, Chile

- Denmark: 45991429

Fax: 42815810
Hewlett-Packard A/S
Kongevejen 25, 3460 BIRKEROD

More About Your Printer: Ordering Information

- Finland: (90) 88722397

Fax: (90) 88722620
Hewlett-Packard Oy
Varaosamyynti, Piispankalliontie 17
02200 ESPOO

- France: (1) 40857112

Fax: (1) 47982608
EuroParts
77101 avenue du Vieux Chemin de Saint-Denis 92625 GENNEVILLIERS

- Germany: 07031-145444

Fax: 07031-141395
Hewlett-Packard GmbH, hp Express Support Ersatzteil-Verkauf, Herrenberger Str. 130 71034 BOEBLINGEN

- International Sales Branch: (41) 227804111 Fax: (41) 22 780-4770
Hewlett-Packard S. A., ISB
39, rue de Veyrot 1217 MEYRIN 1
GENEVE - SUISSE
- Italy: 02/9212.2336/2475

Fax: 02/92101757
Hewlett-Packard Italiana S. P. A.
Ufficio Parti di ricambio
Via G. Di Vittorio, 9
20063 Cernusco s/N (MI)

- Japan: (03) 3335-8333

Hewlett-Packard Japan Ltd.
29-21 Takaido-Higashi 3-chone, sugninami-ku Tokyo 168-8585

More About Your Printer: Ordering Information

- Korea: (02) 3270-0720

Fax: (02) 3270-0894
Hewlett-Packard Korea
16-58 Hangangro3ga Yongsangu
Seoul, Korea

- Latin America Headquarters: (305) 267-4220 Fax: (305) 267-4247
5200 Blue Lagoon Drive, Suite 930
Miami, FL 33126
- Mexico: (52 5) 258-4600

Fax: (54 1) 258-4362
Hewlett-Packard de Mexico, S.A. de C.V Colonia Lomas de Santa Fe, C.P. 01210 Mexico

- Netherlands: 0334501808

Fax: 0334560891
Hewlett-Packard Nederland B. V.
Parts Direct Service
Basicweg 10
3821 BR AMERSFOORT

- Norway: 22735926

Fax: 22735611
Hewlett-Packard Norge A/S, Express Support Drammensveien 169-171
0212 Oslo

- Spain: 16311481

Fax: 16311274
Hewlett-Packard Espanola S.A.
Departamento de Venta de Piezas
Ctra N-VI, Km. 16,500
28230 LAS ROZAS, Madrid

- Sweden: 8-4442239

Fax: 8-4442116
Hewlett-Packard Sverige AB
Skalholtsgatan 9, Box 19
16493 KISTA

- Switzerland: 056/279 286

Fax: 056/279 280
Elbatex Datentechnik AG
Schwimmbadstrasse 45, 5430 WETTINGEN

- United Kingdom:
+44 1765690061
Fax: +44 1765690731
Express Terminals, 47 Allhallowgate
Ripon, North Yorkshire
- +44 1815687100

Fax: +44 1815687044
Parts First, Riverside Works
Isleworth, Middlesex, TW7 7BY

- +44 1734521587

Fax: +44 1734521712
Westcoast, 28-30 Richfield Avenue
Reading, Berkshire, RG1 8BJ

- United States: (800) 227-8164
- Venezuela: (58 2) 239-4244/4133

Fax: (58 2) 207-8014
Hewlett-Packard de Venezuela C.A.
Tercera Transversal de Los Ruices Norte Edificio Segre, Caracas 1071, Venezuela
Apartado Postal 50933, Caracas 1050

## Elsewhere in the world

- Hewlett-Packard Company Intercontinental Headquarters, 3495 Deer Creek Road, Palo Alto, CA 94304, U.S.A.


## Legal Information

## Regulatory Notices

Hewlett－Packard Company
This device complies with part 15 of the FCC Rules．Operation is subject to the following two conditions：
（1）This device may not cause harmful interference，and（2）this device must accept any interference received，including interference that may cause undesired operation．
Pursuant to Part 15.21 of the FCC Rules，any changes or modifications to this equipment not expressly approved by Hewlett－Packard Company may cause harmful interference，and void your authority to operate this equipment．Use of a shielded data cable is required to comply with the Class B limits of Part 15 of the FCC Rules．
For further information，contact：
Hewlett－Packard Company
Manager of Corporate Product Regulations
3000 Hanover Street
Palo Alto，Ca 94304
（415）857－1501
NOTE：This equipment has been tested and found to comply with the limits for a Class B digital device，pursuant to part 15 of the FCC rules．These limits are designed to provide reasonable protection against harmful interference in a residential installation．This equipment generates，uses，and can radiate radio frequency energy and，if not installed and used in accordance with the instructions，can cause harmful interference to radio communications．However， there is no guarantee that interference will not occur in a particular installation．If this equipment does cause harmful interference to radio or television reception， which can be determined by turning the equipment off and on，the user is encouraged to try to correct the interference by one or more of the following measures：
－Reorient or relocate the receiving antenna．
－Increase the separation between the equipment and the receiver．
－Connect the equipment into an outlet on a circuit different from that to which the receiver is connected．
－Consult the dealer or an experienced radio／TV technician for help．
LED Indicator Statement
The display LEDs meet the requirements of EN 60825－1．

```
この装置は, 情報処理装置等電波障害自主規制協議会(VCC I) の基準
に基づくクラス B 情報技術装置です。この装置は, 家庭環境で使用すること
を目的としていますが, この装置がラジオやテレビジョン受信機に近接して
使用されると受信障害を引き起こすことがあります。
    取り扱い説明書に従って正しい取り扱いをして下さい。
```

```
사요ᄋ자 이ᄂ내무ᄂ (B그 기기)
이 기기느ᄂ 비어ᄇ무요ᄋ우ᅮ 저ᄂ자퐈자ᄋ해거ᄆ저ᄋ으ᄅ 바ᄃ으ᄂ
ᄋ|八刀다ᄉ, 주거지여에서느ᄂ 무ᄅ로ᄂ ᄂ드ᄂ 시여에서
시요ᄋ휴ᄅ 人
```


## Limited Warranty Statement

| HP Product | Duration of <br> Limited Warranty |
| :--- | :--- |
| Software | 90 Days |
| Ink cartridges | 90 Days |
| Printer | 1 Year |

## A. Extent of Limited Warranty

1. Hewlett-Packard (HP) warrants to the end-user customer that the HP products specified above will be free from defects in materials and workmanship for the duration specified above, which duration begins on the date of purchase by the customer. Customer is responsible for maintaining proof of date of purchase.
2. For software products, HP's limited warranty applies only to a failure to execute programming instructions. HP does not warrant that the operation of any product will be uninterrupted or error free.
3. HP's limited warranty covers only those defects which arise as a result of normal use of the product, and do not apply to any:
a. Improper or inadequate maintenance or modification;
b. Software, interfacing, media, parts, or supplies not provided or supported by HP; or
c. Operation outside the product's specifications.
4. For HP printer products, the use of a non-HP ink cartridge or a refilled ink cartridge does not affect either the warranty to the customer or any HP support contract with the customer. However, if printer failure or damage is attributable to the use of a non-HP or refilled ink cartridge, HP will charge its standard time and materials charges to service the printer for the particular failure or damage.
5. If HP receives, during the applicable warranty period, notice of a defect in any software, media, or ink cartridge product which is covered by HP's warranty, HP shall replace the defective product. If HP receives, during the applicable warranty period, notice of a defect in any hardware product which is covered by HP's warranty, HP shall either repair or replace the defective product, at HP's option.
6. If HP is unable to repair or replace, as applicable, a defective product which is covered by HP's warranty, HP shall, within a reasonable time after being notified of the defect, refund the purchase price for the product.
7. HP shall have no obligation to repair, replace, or refund until the customer returns the defective product to HP.
8. Any replacement product may be either new or like-new, provided that it has functionality at least equal to that of the product being replaced.
9. HP's limited warranty is valid in any country where the covered HP product is distributed by HP except for the Middle-East, Africa, Argentina, Brazil, Mexico, Venezuela, and France's "Departements D'Outre-Mer"; for those excepted areas, the warranty is valid only in the country of purchase. Contracts for additional warranty services, such as on-site service, may be available from any authorized HP service facility where the product is distributed by HP or by an authorized importer.
B. Limitations of Warranty
10. TO THE EXTENT ALLOWED BY LOCAL LAW, NEITHER HP NOR ITS THIRD PARTY SUPPLIERS MAKE ANY OTHER WARRANTY OR CONDITION OF ANY KIND, WHETHER EXPRESS OR IMPLIED, WITH RESPECT TO THE HP PRODUCTS, AND SPECIFICALLY DISCLAIM THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY, AND FITNESS FOR A PARTICULAR PURPOSE
C. Limitations of Liability
11. To the extent allowed by local law, the remedies provided in this Warranty Statement are the customer's sole and exclusive remedies.
12. TO THE EXTENT ALLOWED BY LOCAL LAW, EXCEPT FOR THE OBLIGATIONS SPECIFICALLY SET FORTH IN THIS WARRANTY STATEMENT, IN NO EVENT SHALL HP OR ITS THIRD PARTY SUPPLIERS BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER BASED ON CONTRACT, TORT, OR ANY OTHER LEGAL THEORY AND WHETHER ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## D. Local Law

1. This Warranty Statement gives the customer specific legal rights. The customer may also have other rights which vary from state to state in the United States, from province to province in Canada, and from country to country elsewhere in the world.
2. To the extent that this Warranty Statement is inconsistent with local law, this Warranty Statement shall be deemed modified to be consistent with such local law. Under such local law, certain disclaimers and limitations of this Warranty Statement may not apply to the customer. For example, some states in the United States, as well as some governments outside the United States (including provinces in Canada), may:
a. Preclude the disclaimers and limitations in this Warranty Statement from limiting the statutory rights of a consumer (e.g., the United Kingdom);
b. Otherwise restrict the ability of a manufacturer to enforce such disclaimers or limitations; or
c. Grant the customer additional warranty rights, specify the duration of implied warranties which the manufacturer cannot disclaim, or not allow limitations on the duration of implied warranties.
3. FOR CONSUMER TRANSACTIONS IN AUSTRALIA AND NEW ZEALAND, THE TERMS IN THIS WARRANTY STATEMENT, EXCEPT TO THE EXTENT LAWFULLY PERMITTED, DO NOT EXCLUDE, RESTRICT, OR MODIFY, AND ARE IN ADDITION TO, THE MANDATORY STATUTORY RIGHTS APPLICABLE TO THE SALE OF HP PRODUCTS TO SUCH CUSTOMERS.

## HP Year 2000 Warranty

Subject to all of the terms and limitations of the HP Limited Warranty Statement stated above, HP warrants that this HP Product will be able to accurately process date data (including, but not limited to, calculating, comparing, and sequencing) from, into, and between the twentieth and twenty-first centuries, and the years 1999 and 2000, including leap year calculations, when used in accordance with the Product documentation provided by HP (including any instructions for installing patches or upgrades) provided that all other products (e.g. hardware, software, firmware) used in combination with such HP Product(s) properly exchange date data with it. The duration of the Year 2000 warranty extends through January 31, 2001.

## Environmental Statement

Hewlett-Packard continuously improves the design processes of HP DeskJet printers to minimize the negative impact on the office environment and on the communities where printers are manufactured, shipped, and used. HewlettPackard has also developed processes to minimize the negative impact of the disposal of the printer at the end of printing life.

## Reduction and Elimination

Paper Use: The printer's automatic/manual two-sided printing capability reduces paper usage and the resulting demands on natural resources. This printer is suited for the use of recycled papers according to DIN 19309.
Ozone: Ozone-depleting chemicals such as CFCs have been eliminated from Hewlett-Packard 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. Plastic parts have been primarily designed in no more than two colors to enhance recycling options. A few small parts are colored specifically to highlight customer access points.
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 DeskJet Printer, HP provides the following:

- Extended Warranty - HP SupportPack provides coverage for the HP hardware and product and all HP supplied internal components. HP SupportPack must be purchased by the customer within 30 days of purchase. Contact the nearest HP dealer about this service.
- Spare Parts and Consumables are available for five years after production has stopped.
- Product Take-back - To return this product and ink cartridges to HP at the end of its useful life, call your local HP Sales or Service Office for instructions.


## Energy Consumption

This printer was designed with energy conservation in mind. This printer averages 4 watts in stand-by mode. Not only does this save natural resources, but it also saves money without affecting the high performance of this printer. This product qualifies for the ENERGY STAR Program (U.S. and Japan). ENERGY STAR is a voluntary program established to encourage the development of energyefficient office products. ENERGY STAR is a US registered service mark of the US EPA. As an ENERGY STAR partner, Hewlett-Packard Company has determined that this product meets ENERGY STAR Guidelines for energy efficiency.


Energy consumption in off-mode: When the printer is off, a minimal 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.

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[^0]:    Warning
    Only use the Power Button © on the front of the printer to turn the printer on and off. Using a power strip, surge protector, or a wall-mounted outlet switch to turn the printer on and off may cause premature failure.

