# **User's Guide**

**HP Color Copier** 

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Publication number: C6690-90101

First edition: January 1999

Printed in U.S.A., Germany, or Singapore

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**Note**: Regulatory information can be found in Chapter 8.



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  - Identification badges, cards, or insignias
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  - Food stamps
- Checks or drafts drawn on Governmental agencies
- Paper currency, traveler's checks, or money orders
- ◆ Certificates of deposit
- Copyrighted works

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#### **About This Guide**

This guide will help you get started and show you how to perform the most common tasks with your HP Color Copier.

#### Conventions Used

Throughout this guide, we use specific conventions to help you quickly identify information:

**boldface** Bold typeface identifies a specific button name or

command you need to enter.

**CAUTION** This label calls attention to an operating procedure,

practice, or the like, which, if not correctly

performed or adhered to, could result in damage to or destruction of part or all of the product or your data. Do not proceed beyond a Caution label until you fully understand and have met the indicated

conditions.

**IMPORTANT** This label identifies significant information.

This label identifies information you should know NOTE

before you continue.

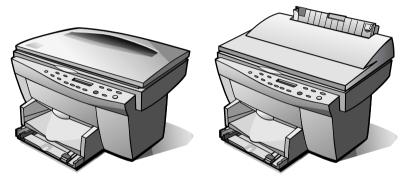
TIP This label precedes helpful hints.

WARNING This label calls attention to a procedure, practice, or

the like, which, if not correctly performed or adhered to, could result in personal injury. Do not proceed beyond a Warning label until you fully understand and have met the indicated conditions.

Welcome!

Welcome to your new HP Color Copier! This guide will help you set up and use your new HP Color Copier.



If you have the HP Color Copier without the automatic document feeder (ADF), the lid functions as a paper holder.

You can produce high-quality color and black-and-white copies using a variety of paper types and sizes, including iron-on transfers.

You can enlarge or reduce the size of the copies you make from 25% to 400% of the image's original size. You can make the image lighter or darker, adjust the color intensity, and specify the quality of the copies you make. You can also use special digital copying features to help you create business cards, brochures, name badges — and even posters.

# **Setting Up Your New HP Color Copier**

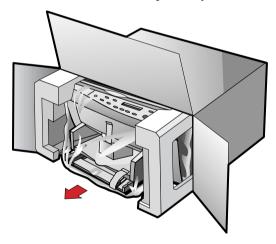
Follow the steps in the order shown.

**IMPORTANT** 

Do not turn on your HP Color Copier until you are instructed to do so.

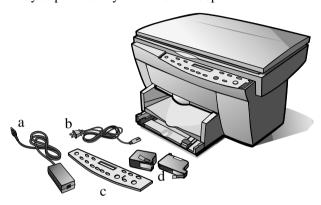
## Step 1 — Unpack Your HP Color Copier

- 1 Remove the cardboard tray containing the accessory items.
- 2 Rest the box on its side, and pull out your HP Color Copier.



- 3 Verify that the following items are included with your HP Color Copier:
  - **a** Power supply (AC/DC adapter) with attached cord (HP part number 0950-2880)
  - **b** Power cord
  - **C** Front-panel overlay with text on it
  - **d** One black and one color print cartridge

If any of the items are missing or damaged, contact the dealer from whom you purchased your HP Color Copier.



- 4 Choose a location and environment for your HP Color Copier.
  - Use your HP Color Copier only within normal office temperature and humidity ranges. For recommended ranges, see "Environmental Specifications" in Chapter 8.
  - Avoid direct sunlight or locations where a quick change in temperature might cause condensation inside the unit.
  - Make sure the location is well ventilated. Dust, gases, or fumes (such as ammonia or paint thinner) can damage the unit.
  - Choose a site that is level, flat, and stable. The HP Color Copier vibrates and needs to be on a sturdy surface.
  - Be sure a grounded outlet is nearby and easily accessible.
  - If your unit has an automatic document feeder (ADF), make sure that you can open the lid all the way by placing your HP Color Copier at least 9 inches (230 mm) from the wall.

5 Remove the packaging materials (plastic wrap, cardboard insert, and packing tape) from the outside of the unit.

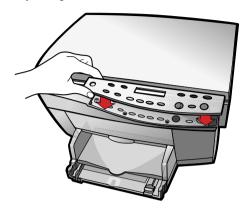


**6** If your HP Color Copier has an automatic document feeder (ADF), remove the packaging materials from the ADF lid.



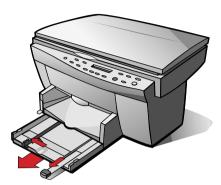
# Step 2 — Attach the Front-Panel Overlay

- 1 Align the front-panel overlay with the front panel buttons.
- 2 Push straight down firmly on both ends and the middle to snap the overlay into place.

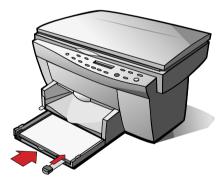


## Step 3 — Load Paper in Your HP Color Copier

- 1 Remove the packaging materials from the HP Color Copier, if you have not already done so.
- 2 Slide the paper width and length adjusters to their outermost positions. As you pull the paper length adjuster out, the bottom (IN) tray also slides out.



3 Insert paper into the IN tray, print side down, until it stops.



4 Slide the paper width and length adjusters in until they stop at the edges of the paper.

5 Push the IN tray back toward the unit until it stops, and lower the top (OUT) tray if you raised it before inserting paper.

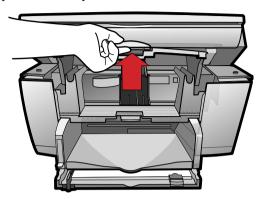


For information about loading specific paper types, see Chapter 3, "All About Paper."

For information about paper tray capacities, see Chapter 8, "Technical Information."

## Step 4 — Install Print Cartridges

- 1 Locate the print-cartridge access door on the front of the HP Color Copier, just above the OUT tray.
- 2 Pull the latch on the print-cartridge access door toward you and raise it up until it is fully extended.

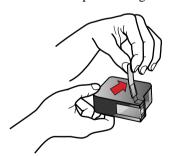


**3** Remove the cardboard insert from the inside of the unit.

TIP Save the packaging materials in case you ever need to move or ship your HP Color Copier.

The print-cartridge carriage will be in the middle of the access area. The carriage contains two slots designed to hold one color print cartridge and one black print cartridge. You should have received one of each type of cartridge with your new HP Color Copier.

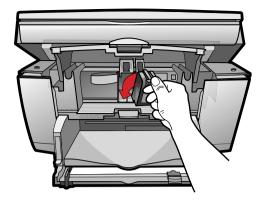
- 4 Raise both latches on the carriage.
- 5 Remove the color print cartridge (the thicker one) from its packaging and, being careful to touch only the black plastic, gently remove both the green pull tab and blue tape covering the nozzles.



**CAUTION** 

Do not touch the gold-colored contacts.

**6** Push the color print cartridge firmly down into the slot on the left.

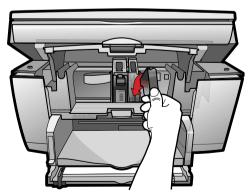


**NOTE** The print-cartridge label should be facing you after the cartridge is inserted.

Remove the black print cartridge (the thinner one) from its packaging and, being careful to touch only the black plastic, gently remove both the green pull tab and blue tape covering the nozzles.



8 Push the black print cartridge firmly down into the slot on the right.



**9** Lower each print-cartridge latch down onto the top of the cartridge, and push down until the latch locks firmly into place.



10 Close the print-cartridge access door.

#### NOTE

Both print cartridges must be correctly installed (with the green tab and blue tape removed) for your HP Color Copier to work. Make sure that the following things are done before continuing:

- Cartridges are pushed firmly into their slots.
- Cartridge labels are facing toward you.
- Both print-cartridge latches are down and locked.
- Print-cartridge access door is closed and latched.
- IN tray is pushed in completely.
- Paper length adjuster is pushed firmly against the paper stack.
- OUT tray is fully down.

## Step 5 — Connect the Power Cord

#### WARNING

Choose a power outlet that is easy to access. This allows you to shut off power quickly.

Power is present in the product even if the white power button on the left side of the unit's front panel was used to turn the unit off. To shut off power completely, disconnect the power cord.

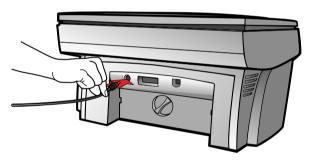
For safe operation, use the power cord with a properly grounded outlet. Use only the power supply (HP part number 0950-2880) that came with your HP Color Copier. Using another adapter may be hazardous.

The HP Color Copier comes with a power supply adapter, to which an output cord is permanently attached, and a main power cord for the country to which it is shipped. If the plug on the main power cord does not look familiar, contact your dealer or local HP Sales and Support Office.

- 1 Plug the power supply output cord into the back of the HP Color Copier.

  The power supply connector is located on the back of the unit.
- 2 If you have an ADF unit and the lid cord is not already attached, connect the cord securely to the back of the HP Color Copier.

The lid connector is located on the back of the unit.



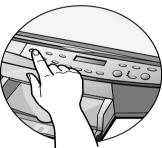
#### NOTE

Make sure that the cord is securely attached; otherwise, it may not work.

3 Plug the adapter end of the main power cord into the power supply adapter.



- 4 Plug the power outlet end of the separate power cord into the power outlet.
- 5 To turn the unit on, press the white power button on the left side of the front panel.



When your HP Color Copier is on, a light appears on the front panel, and text appears in the front-panel display. If you do not see these, check the power cord connections from the back of the unit to the power-supply adapter and from the power-supply adapter to the power outlet.

## Step 6 — Align Your Print Cartridges

Before you start using your HP Color Copier, you need to align the print cartridges to ensure the best copy quality.

When you turn on your HP Color Copier for the first time, you will see the message "Initializing," followed by the message "Press Resume to Align Cartridges" on the front-panel display.

#### NOTE

If the messages are not in your language, you can change the language before aligning your cartridges. Follow the instructions provided later under "Changing the Front-Panel Language."

1 If "Press Resume to Align Cartridges" or "Align Cartridges" appears on the front-panel display of your HP Color Copier, press the Select/ Resume button on the front panel of the unit.

The HP Color Copier prints a page with three sets of paired lines on it. A set of numbered, horizontal lines appears at the top of the page, and two sets of vertical lines, each with a unique letter, appear in the middle and at the bottom of the page.

**2** Follow the instructions on the page above each set of paired lines.

Congratulations! You have finished setting up your HP Color Copier. Now you are ready to start using it.

## **Changing the Front-Panel Language**

To switch to a different language, do the following:

- 1 While holding down the **Select/Resume** button, press the **Color Intensity** button, and then release both buttons.
- 2 Press Select/Resume.

The current language appears on the front-panel display.

- 3 Press the **minus** (–) or **plus** (+) button to scroll through the available languages until the language you need appears on the display.
  - The available languages include: English, Español, Deutsch, Français, Italiano, Portugués, Nederlands, Dansk, Norsk, Svenska, and Suomi.
- 4 Press **Select/Resume** to choose the displayed language.
  - The current paper size appears on the front-panel display.
- 5 Press the **minus** (–) or **plus** (+) button until the desired paper size appears on the display.
- **6** Press **Select/Resume** to choose the displayed paper size.

This chapter explains the paper types you can use when copying. It also presents some tips on loading paper and transparency film and specifies paper requirements for originals used in the automatic document feeder (ADF).

For a current list of HP papers, visit our Web site:

http://www.hp.com/go/copiers

## **HP Papers**

The HP Color Copier is designed to copy onto a variety of paper types and weights, including plain paper. Be sure that all paper is free of rips, dust, wrinkles, and curled or bent edges.

For highest quality results, use the following HP papers:

- HP Bright White Inkjet Paper delivers high-contrast colors and sharp text. It is opaque enough for two-sided color printing, with no show-through. It is ideal for newsletters, reports, proposals, and flyers.
- HP Premium Photo Paper is a high-quality, glossy-finish, photo-based inkjet paper. It looks and feels like a photograph and can be mounted under glass or in an album. HP Photo paper dries rapidly and resists fingerprints and smudges.
- HP Iron-On T-Shirt Transfers can be used to transfer your designs or photos onto T-shirts, sweatshirts, and fabric crafts.
- HP Premium Inkjet Rapid-Dry Transparency Film is designed to make your color presentations vivid and even more impressive. This film is easy to use and handle and dries quickly without smudging.
- HP Premium Heavyweight Inkjet Paper is matte-coated on both sides for two-sided copying. It is the perfect choice for near-photographic reproductions and business graphics for report covers, special presentations, brochures, mailers, and calendars.
- HP Premium Inkjet Paper is the ultimate coated paper for high-resolution copying. A smooth-matte finish makes it ideal for your special documents.
- HP Photo Paper uses Kodak Image Enhancements technology to give you excellent skin tones and true-to-life landscape colors.

- HP Premium Inkjet Transparency Film is specifically designed for use with your HP Color Copier to give you the best results with your overhead transparency presentations.
- HP Greeting Card Paper and HP Glossy Greeting Card Paper allow you to make your own greeting cards and invitations.

## **Paper Choices When Copying**

You should copy only onto letter (A)- and A4-sized papers.

## **Using the Right Front-Panel Paper Type When Copying**

The paper type you select determines how your HP Color Copier copies onto the paper you are using. Each time you load a different type of paper in the IN tray or document feeder, set the corresponding paper type on the front panel.

To Copy on this Paper	Select this Paper Type (from the Front Panel)
Copier Paper	Plain Paper
Letterhead	Plain Paper
HP Bright White Inkjet Paper	Plain Paper
HP Premium Inkjet Paper	Premium Inkjet
HP Premium Inkjet Heavyweight Paper	Premium Inkjet
Other inkjet papers	Premium Inkjet
HP Photo Paper	Premium Photo
HP Premium Photo Paper	Premium Photo
Other photo papers	Premium Photo
HP Premium Inkjet Transparency Film	Transparency
HP Premium Inkjet Rapid-Dry Transparency Film	RapidDry Trans
Other transparency films	Transparency
HP Greeting Card Paper	Plain Paper
HP Glossy Greeting Card Paper	Plain Paper
HP Iron On T-Shirt Transfers	Iron-On (see following note)
Other specialty papers	Plain Paper
Labels (see following note)	Plain Paper

#### NOTE

If you select Iron-On, the HP Color Copier automatically copies using the Mirror digital copying feature.

## Tips on Loading Paper in the IN Tray

#### All Papers

- Be sure that paper is free of rips, dust, wrinkles, and curled or bent edges.
- Make sure all the paper in the stack is the same size and type.
- Tap the stack on a flat surface to even the edges of the paper.
- Put the paper into the IN tray with the *print side down* and with the letterhead (top of the page) forward.
- Push the paper forward into the IN tray until it stops.
- Slide the paper width and length adjusters to fit snugly against the edges of the paper stack. Be sure that the paper stack lies flat in the IN tray and fits under the tab of the paper-length adjuster.

#### **HP Papers**

- **HP Premium Inkjet Paper**: Locate the gray arrow on the nonprinting side of the paper, and insert paper with the arrow side facing up.
- ◆ **HP Premium Photo Paper**: Load the shiny side facing down. Always load at least 5–10 sheets in the IN tray. You can place the photo paper sheets on top of plain paper.
- **HP Premium Transparency Film**: Insert the film so that the white transparency strip, with arrows and the HP logo, is on top and going into the tray first.
- HP Iron-On T-Shirt Transfers: For best results, manually feed one sheet at a time, with the unprinted side facing down. Flatten the transfer sheet completely before using it; do not load curled sheets. To prevent curling, keep transfer sheets sealed in the original package until just before using.

#### Special Considerations When Using Transparency Film

- Load a maximum of 25 transparency sheets at a time.
- Be sure to specify **Transparency** as the Paper Type setting.
- Ink dries slower on film. Be sure to allow enough time for the ink to dry before using the transparency.
- If you are copying from a transparency (that is, your original is printed on transparency film), place a blank piece of paper over the transparency on the copier glass.

#### NOTE

We recommend using only HP Premium Inkjet or Rapid-Dry Transparency Film when copying on transparencies. Other transparency film can jam in the HP Color Copier.

## **Other Paper Tray Considerations**

To avoid paper jams, remove papers from the OUT tray frequently. OUT tray capacity is affected by the type of paper and the amount of ink you are using. For more information, see Chapter 8, "Technical Information."

## **Automatic Document Feeder (ADF) Requirements**

- Load a maximum of 30 originals at a time when using letter (A)- or A4-sized papers.
- ◆ Load only plain paper (white and color), letterhead, and HP Premium Inkjet Paper in the 16–24 lb (60–90 gsm) range.
- Always insert originals with the printed-side facing back in the feeder and the top of the paper to the right. Align the paper with the right side of the ADF.
- Do not start copying until the "Document loaded" message appears briefly on the front panel display and you see the Copy Quality lights flash.
- Do not load colored originals printed on a color laser printer.

#### NOTE

Load only letter (A)- or A4-sized papers in the ADF. Load only plain paper or HP special papers such as HP Premium Inkiet Paper.

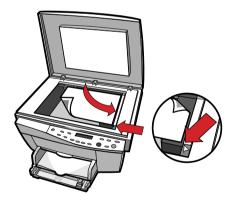
Slick-surfaced papers, such as glossy papers, will also jam in the ADF. A full-page color graphic printed on a color laser printer develops a slick surface.

Copying

This chapter explains how to make copies and how to use the special copying features of the HP Color Copier.

## **How to Make Copies**

- 1 Turn on the HP Color Copier by pressing the white power button located on the left side of the unit's front panel.
- 2 Load the paper.
- 3 Choose one of the following for placing your original:
  - If you are not using an automatic document feeder (ADF), place your original face down on the glass with the top edge along the white border. If the original is a photo, place the top of the photo along the white border, close to the white arrow.



If you are using an ADF, place your originals in the feeder with the printed side facing toward the back and with the top to the right. Align the paper with the right side of the ADF. Be sure to put full-sized pages only in the ADF, and adjust the page guide to the length of the originals.

As you load the originals, the message "Document loaded" appears briefly on the front-panel display.



#### NOTE

For more information about the types of paper you can use in the ADF, see Chapter 3, "All About Paper."

- 4 To specify the number of copies, press **Number of Copies** until the desired number appears on the display.
  - If the number of copies is already displayed on the front panel and you want to change it, press the **minus** (-) or **plus** (+) button until the correct number appears on the display.
- To adjust the way your copy will look, use the copy quality (Best, Normal, and Fast), Reduce/Enlarge, Paper Type, Lighter/Darker, and Color Intensity buttons.

For more information about using these buttons, see "Controlling How Copies Look" later in this chapter.

- **6** Start copying by doing one of the following:
  - Press the Black button to make black-and-white copies.
  - Press the **Color** button to make color copies.

#### NOTE

To avoid paper jams, remove copies from the OUT tray frequently. OUT tray capacity is affected by the type of paper and the amount of ink you are using. For tray capacities, see Chapter 8, "Technical Information."

## **Controlling How Copies Look**

The copy settings control how your copies look. This section explains how to change settings using the front-panel buttons and menu commands.

The copy settings are reset to their default settings two minutes after each copy job is complete. If you consistently modify settings to change the way your copies look, make those your new default settings. For more information, see "Creating Your Own Default Settings" later in this chapter.

#### **Changing Copy Settings Using the Front-Panel Buttons**

#### Clear/Stop

Use **Clear/Stop** to cancel copy settings you have specified or to stop copying. When you press **Clear/Stop** to cancel copy settings, they are reset to default settings.

When you press **Clear/Stop** to stop copying, the message "Copy Cancelled" appears on the display. After a few seconds, the HP Color Copier cancels the job.

#### Select/Resume

Use **Select/Resume** to confirm copy settings you have specified.

### Copy Quality (Best/Normal/Fast)

The copy quality button changes the speed and quality of the copies you make. (This button is not labeled "copy quality." It is the small button beneath the three small lights labeled **Best**, **Normal**, and **Fast**.)

To change the quality setting, press the button until the light next to the setting you want to use is lit. You can choose from the following settings:

- Best produces the highest quality for all paper and eliminates the banding (striping) effect that sometimes occurs in solid areas. Best copies more slowly than the other quality settings.
- Normal delivers high-quality output and is the recommended setting for most of your copying. Normal is the recommended setting for all paper types and is faster than Best.
- Fast copies faster than the Normal setting, and the text is of comparable quality. Using Fast also cuts down on the frequency of replacing your print cartridges because it uses less ink.

#### Reduce/Enlarge

The Reduce/Enlarge button lets you quickly reduce or enlarge originals to the size you want.

#### NOTE

Some Reduce/Enlarge features let you specify the exact percent reduction or enlargement you want and they are shown in the display with the minus/plus (—) signs. Press the minus (—) or plus (+) button once to change the percentage by one. Hold down the minus (—) or plus (+) button to change the percentage by increments of five.

To change the reduction and enlargement settings, do the following:

- 1 Press **Reduce/Enlarge** until the setting you want appears on the display.
- 2 Press **Select/Resume** to select the new Reduce/Enlarge setting.

The following features are available with Reduce/Enlarge:

• Normal 100% makes a copy that is the same size as your original.

#### NOTE

There is a small margin around the edge of the paper that the HP Color Copier cannot copy onto. For more information see Chapter 8, "Technical Information." Also, see Entire 91% and Auto Fit below.

- Entire 91% reduces your copy slightly to ensure that the whole image, out to all the edges, is copied.
- Auto Fit pre-scans the original to determine where its edges are, and then reduces or enlarges the original to fit on the paper you are using.

When enlarging, Auto Fit increases the size of the copy to the largest size that will fit on the page without distorting the image and centers the image on the page.

- Custom 100% (-+) lets you specify an exact reduction or enlargement percentage between 25% and 400%. This range varies slightly between models.
- ◆ *Max 400%* (-+) enlarges the original to the highest enlargement percentage.
- Min 25% (-+) reduces the original to the lowest reduction percentage.

#### Special Features

You can select *digital copying features* using this button.

To select a feature, do the following:

- 1 Press **Special Features** until the setting you want appears on the display.
- 2 Press **Select/Resume** to select the new setting.

The following Special Features are available:

- ◆ *Normal* indicates that no special feature has been selected.
- **Poster 400%** (-+) determines how to divide up the original image and enlarge each part to end up with an image that is up to 400% larger than your original. Poster centers the image on the sheets. A poster may be created using up to 25 sheets of paper (5 sheets wide and 5 sheets long).
- ◆ 2 on 1 allows you to copy two pages in succession which the HP Color Copier then reduces and prints on one page. If copying manually from the glass, you will be prompted for the second page with a message on the front-panel display. The message remains until you press either Select/Resume or Clear/Stop.
- ◆ Clone 100% (-+) fits as many copies of the original as will fit on one sheet of the paper you are using.
- Mirror 100% (-+) reverses the image of your original and makes a copy based on the percent reduction/enlargement percentage that you specify.

You can use Mirror to copy favorite photos or images onto HP Iron-On T-Shirt Transfers, and then iron the transfer sheets to make custom t-shirts, banners, and flags. You can also use Mirror to copy presentation materials onto HP Premium Inkjet Transparency film. Then, when you flip each film over to make your presentation, you can write on it and erase, without worrying about smearing the ink.

NOTE

When you select Iron-On as the paper type on the front panel, the HP Color Copier automatically selects Mirror as the Reduce/Enlarge setting.

#### Paper Type

The Paper Type button affects how the HP Color Copier makes copies. You must select the appropriate setting for the kind of paper you are using. For more information about selecting the proper paper type, see Chapter 3, "All About Paper," earlier in this guide.

To change the paper type, do the following:

- 1 Press **Paper Type** repeatedly to scroll through the list of paper types.
- When the paper type you are using appears on the front-panel display, press **Select/Resume**.

#### Lighter/Darker

Use Lighter/Darker to adjust the lightness and darkness of the copies you make. To do so:

- 1 Press Lighter/Darker.
  - The range of values appears as a circle on a scale on the display.
- Press the **minus** (–) or **plus** (+) button to make the copy lighter or darker. The circle moves to the left or right, depending on the button you press.
- 3 Press **Select/Resume** to confirm your selection.

#### Color Intensity

Use Color Intensity to make colors on your copy more vivid or more subtle. To do so:

- 1 Press Color Intensity.
  - The range of color intensity values appears as a circle on a scale on the front-panel display.
- 2 Press the **minus** (–) or **plus** (+) button to make the colors more subtle or intense.
  - The circle moves to the left or right, depending on the button you press.
- 3 Press **Select/Resume** to confirm your selection.

#### Menu

With the Menu button, you can change some additional copy settings. You can also change some default settings of the HP Color Copier that are not related to copying.

To change settings using the menu commands, do the following:

- 1 Press **Menu** repeatedly to scroll through the list of available commands.
- 2 After the command you want to change appears on the display, press either **minus** (–), **plus** (+) or **Select/Resume** to choose it.

For more information about changing specific menu commands, see "Changing Copy Settings Using the Menu Commands" and "Changing Default Settings" later in this chapter.

#### **Changing Copy Settings Using the Menu Commands**

#### Photo Mode

Photo Mode temporarily turns the Text Enhancement (TE) setting off and the Enhance Light Colors (ELC) setting on for optimal copying of a photograph. For more information about using the TE and ELC settings, see "TE (Text Enhancement)" and "ELC (Enhance Light Colors)" later in this chapter.

To use the Photo Mode, do the following:

- 1 Press Menu until Photo Mode (-+) O appears.
- Press the plus (+) button to select Photo Mode.
  The small circle to the right of the (-+) is filled in to indicate that Photo Mode is enabled; it is cleared when Photo Mode is turned off.
- 3 Press **Select/Resume** to confirm your selection.

### Copy Paper Size

Copy Paper Size lets you copy on either letter-sized (8.5-by-11-inches) or A4-sized (210-by-297-mm) paper.

To change the copy paper size, do the following:

- 1 Press Menu until Copy Paper Size appears.
- 2 Press Select/Resume to view the current default paper size.
- 3 Press the **minus** (-) or **plus** (+) button to toggle between the paper sizes.
- 4 Press **Select/Resume** to choose the paper size you want.

#### WARNING

Do not copy onto envelopes or other smaller-sized papers. Copying onto smaller-sized papers can damage your HP Color Copier.

## TE (Text Enhancement)

**TE** sharpens the edges of black text. It is turned on by default and should usually be left on. (TE is automatically turned off when you select Photo Mode.) However, turn TE off if:

- Large, black typefaces look splotchy (not smooth).
- Horizontal grainy or white bands appear in light- to medium-gray areas.
- Thin, colored objects or lines contain black sections.

To turn TE on or off, do the following:

- 1 Press **Menu** until **TE** appears.
- 2 Press the **minus** (–) or **plus** (+) button to switch between off and on ●.
- 3 Press **Select/Resume** to confirm your selection.

#### ELC (Enhance Light Colors)

**ELC** enhances light-colored backgrounds in documents and improves the appearance of very pale colors. It is turned off by default and should usually be left off. (ELC is automatically turned on when you select Photo Mode.) However, turn ELC on if pale colors are copying as white.

To turn ELC on or off, do the following:

- 1 Press Menu until ELC appears.
- 2 Press the **minus** (−) or **plus** (+) button to switch between off O and on •
- 3 Press **Select/Resume** to confirm your selection.

## **Changing Default Settings**

This section explains how to change the default front-panel settings.

#### NOTE

To change the default language, see "Changing the Front-Panel Language" in Chapter 2.

### **Creating Your Own Default Settings**

If you consistently use settings on the front panel other than the default settings, you can make those your new default settings. You can change most settings. To create new default settings:

- 1 Set all options the way you want them.
- 2 Press Menu until Set Defaults appears.
- 3 Press **Select/Resume** to confirm your selection.

#### NOTE

Current settings are indicated by a solid circle 

■. Default settings have no special indicator.

#### Restoring the Factory Default Settings

You can return all the front-panel settings to their factory default settings. To do so:

- 1 Press the **Menu** button until **Factory Defaults** appears.
- 2 Press **Select/Resume** to confirm your selection.

# Troubleshooting and Maintaining Your HP Color Copier

This chapter provides instructions for keeping your HP Color Copier in top working condition. Perform the maintenance procedures as necessary.

This chapter also presents procedures for resolving paper jams in the paper tray and automatic document feeder (ADF). It also lists some of the messages that may appear on the HP Color Copier front-panel display.

## **Cleaning the Exterior Case**

Use a soft, damp, lint-free cloth to wipe dust, smudges, and stains off the case. The interior of the HP Color Copier does *not* require cleaning. *Keep fluids* away from the interior of the HP Color Copier.

## Cleaning the Glass

Dirty glass (fingerprints, smudges, and so on) slows down copying performance by as much as half a minute! This is because the scanner is actually processing the smudges on the glass. Keep the glass clean.

#### WARNING

Turn off the HP Color Copier and unplug the power cord before cleaning. Even though the HP Color Copier is off, power is still being supplied if the cord is plugged in.

To clean the glass:

- 1 Turn off the HP Color Copier, unplug the power cord, and raise the lid.
- 2 Clean the glass with a soft cloth or sponge slightly moistened with a nonabrasive glass cleaner.

#### CAUTION

Do not use abrasives, acetone, benzene, or carbon tetrachloride on the glass; these can damage it. Do not place liquids directly on the glass. They may seep under it and damage your HP Color Copier.

3 Dry the glass with a chamois or cellulose sponge to prevent spotting.

## How to Clear a Paper Jam in the ADF

If "Automatic Document Feeder Jam. Clear jam then press Resume." appears on the front-panel display, do the following:

- 1 Remove your originals from the ADF.
- 2 Lift the lid, and clear the paper path.
- 3 Lower the lid, and replace your originals in the ADF.
- 4 Press **Select/Resume** on the front panel to continue.

## How to Clear a Paper Jam in the Main Unit

#### Paper Jam with Front-Panel Message

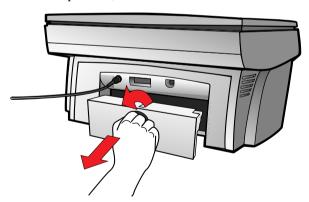
If "Paper Jam" appears on the front-panel display, do the following:

- 1 Slide the IN tray out, remove any wrinkled and torn paper from the IN tray, remove any paper coming out into the OUT tray, and reload new paper in the IN tray.
- 2 Turn the HP Color Copier off and then on again.
- **3** Process your job again.

#### Paper Jams in the Back of the Unit

If paper jams in the rear of the HP Color Copier, follow these steps:

1 Turn the knob on the rear access door 1/4-turn counter clockwise to the unlocked position, which releases the door.



- 2 Remove the door, and pull the jammed paper out of the unit.
- **3** Replace the door in the back of the unit, and turn the knob clockwise to the locked position.
- 4 Turn the HP Color Copier off and then on again.
- 5 Process your job again.

## How to Use the Self-Test Page

The self-test page lets you know whether the HP Color Copier is operating properly. It lists current, default front-panel settings, and tells whether the ADF is attached properly.

To print a self-test page:

- 1 Press **Menu** until "Self-Test Page" appears on the display.
- 2 Press Select/Resume.

The test page has a set of lines that should appear unbroken, and colored bars that should appear solid. The intensity of the colors varies, depending on the type of paper you are using (that is, plain paper, HP Premium Inkjet Paper, and so on).

## **How to Clean Cartridges**

Use the Clean Cartridges feature when the self-test page shows streaking or white lines through any of the colored bars. Do *not* clean cartridges unnecessarily. This wastes ink and shortens the life of your print cartridges.

To clean the cartridges:

- 1 Press **Menu** until "Clean Cartridges" appears on the display.
- 2 Press Select/Resume.

The message "Cleaning" appears on the display, and a sample page is printed.

#### NOTE

If copy quality still seems poor after you clean the cartridges, replace the one, black or color, that is affected.

# **Front-Panel Messages**

Message	What You Should Do
Additional cleaning will be ineffective.	Replace the print cartridge.
Automatic Document Feeder Jam. Clear jam then press Resume.	See "How to Clear a Paper Jam in the ADF" earlier in this chapter.
Black ink low	Replace the black ink cartridge at your earliest convenience.
Black ink out soon.	Replace the black ink cartridge immediately.
Cartridge carriage blocked. Close latches over print cartridges, then turn power off then on.	Make sure the print cartridges are installed and the latches are closed, and then turn the power off and on.
Error. Record number then call for service.	Turn the power off and then on again. If this does not work, record the error number and contact HP.
Paper jam.	Clear the paper jam, and then turn the power off and then on again.
Power Save On.	The HP Color Copier has not been used for 12 hours or more. Press any button on the front panel or load originals in the ADF.
Remove and check black cartridge. Verify Part Number: 51645A or 51645G.	The wrong black cartridge may be installed, or it may be installed incorrectly. Remove it and replace it with the correct cartridge, or insert it correctly.
Remove and check (black or color) cartridge.	One of the print cartridges is either incorrectly installed, the wrong type, or defective. Remove the applicable print cartridge, and then reinsert it. Make sure to remove the tape from the print cartridge, and close the latch securely. If this does not solve the problem, replace the cartridge.
Remove and check color cartridge. Verify Part Number: C1823A, C1823D, or C1823G.	The wrong tri-color cartridge may be installed, or it may be installed incorrectly. Remove it, and replace it with the correct cartridge or insert it correctly.
Remove original from the document glass.	Remove the original from the document glass, and then press <b>Select/Resume</b> on the front panel. If there is no original on the glass, turn the unit off and then on again.

# **Front-Panel Messages (Continued)**

Message	What You Should Do
Scanner system failure.	The scanner bulb is becoming too dim to work properly, or the unit needs servicing. Turn the power off and then on again. If the message continues and the light does not come on, your HP Color Copier needs to be serviced. See "HP Customer Support" in Chapter 7 for more information.

# **Additional Troubleshooting Tips**

Issue	What You Should Do
Auto Fit, Clone, or Poster is not working.	Make sure to place the original in the correct position (see Chapter 4), make sure that the glass, lid, and ADF are all clean and free from smudges and dust, and make sure that the ADF cable is plugged in.
I hear a loud noise, and the message "Cartridge carriage blocked" appears on the display.	The shipping insert was left inside the print-cartridge carriage, or the latches were left open after the print cartridges were inserted. Open the print-cartridge access door, and remove the insert or close the latches. Turn the HP Color Copier off and then on again.

# Hewlett-Packard Limited Warranty

**HP Color Copier** 

Duration of Limited Warranty (Hardware): 1 Year

Duration of Limited Warranty (Print Cartridges): 90 Days

# HP Year 2000 (Y2K) Warranty

## For Consumer Products Distributed Through Resellers

Subject to all of the terms and limitations of the HP Limited Warranty Statement provided with this HP Product, 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.

# **Extent of Limited Warranty**

- 1 HP warrants to you, the end-user customer, that HP hardware, accessories and supplies will be free from defects in materials and workmanship after the date of purchase, for the period specified above. If HP receives notice of such defects during the warranty period, HP will, at its option, either repair or replace products which prove to be defective. Replacement products may be either new or like-new.
- 2 HP warrants to you that HP software will not fail to execute its programming instructions after the date of purchase, for the period specified above, due to defects in material and workmanship when properly installed and used. If HP receives notice of such defects during the warranty period, HP will replace software media which does not execute its programming instructions due to such defects.

- 3 HP does not warrant that the operation of HP products will be uninterrupted or error free. If HP is unable, within a reasonable time, to repair or replace any product to a condition as warranted, you will be entitled to a refund of the purchase price upon prompt return of the product.
- 4 HP products may contain remanufactured parts equivalent to new in performance or may have been subject to incidental use.
- Warranty does not apply to defects resulting from (a) improper or inadequate maintenance or calibration, (b) software, interfacing, parts or supplies not supplied by HP, (c) unauthorized modification or misuse, (d) operation outside of the published environmental specifications for the product, or (e) improper site preparation or maintenance.
- 6 HP MAKES NO OTHER EXPRESS WARRANTY OR CONDITION WHETHER WRITTEN OR ORAL. TO THE EXTENT ALLOWED BY LOCAL LAW, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, SATISFACTORY QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY SET FORTH ABOVE. Some countries, states or provinces do not allow limitations on the duration of an implied warranty, so the above limitation or exclusion might not apply to you. This warranty gives you specific legal rights and you might also have other rights that vary from country to country, state to state, or province to province.
- 7 TO THE EXTENT ALLOWED BY LOCAL LAW, THE REMEDIES IN THIS WARRANTY STATEMENT ARE YOUR SOLE AND EXCLUSIVE REMEDIES. EXCEPT AS INDICATED ABOVE, IN NO EVENT WILL HP OR ITS SUPPLIERS BE LIABLE FOR LOSS OF DATA OR FOR DIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFIT OR DATA), OR OTHER DAMAGE, WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE. Some countries, States or provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

# **Warranty Service**

## **Express Service**

To obtain HP express repair service, the customer must contact an HP service office or an HP Customer Support Center for basic troubleshooting first.

If a customer unit needs a minor part replacement and these parts can normally be replaced by the customer, the customer-replaceable components may be serviced through expedited part shipment. In this event, HP will prepay shipping charges, duty and taxes; provide telephone assistance on replacement of the component; and pay shipping charges, duty, and taxes for any part that HP asks to be returned.

For some repairs, the HP Customer Support Center may direct customers to designated Authorized Service Providers who are certified by HP to service the HP Color Copier.

# **Warranty Upgrades**

Extended warranties and service option upgrades may be obtained through your local HP authorized dealer or HP service centers.

In the U.S. and Canada, extended warranties may also be obtained by calling HP at 1-800-446-0522.

# Returning Your HP Color Copier for Service

Before returning your HP Color Copier for service, you must call HP Customer Support. See Chapter 7, "Support Services," for steps to take before calling Customer Support.

This chapter explains how to get support for your HP Color Copier.

## **Get Help from HP**

If you are unable to find the answer you need in this guide, you can contact one of the HP support services listed in the following pages. Support services are available in the U.S. and Canada

### Online Services

### Internet

If you have Internet access, you can get help from the HP Web site at:

http://www.hp.com/go/copiers

Here you can find the latest product information and answers to frequently asked questions to help you get the most from your HP Color Copier.

To order printed user guides, a front-panel overlay, or any other replaceable parts in the U.S. or Canada, dial:

(888) HP DISKS (473-4757)

### **HP FIRST**

Call HP FIRST to request information to be faxed directly to you. HP offers this service free of charge. To use HP FIRST, you need a touch-tone phone and a 9600-baud, Group 3 fax machine so you can receive the information.

## **HP Customer Support**

If you need to contact HP Customer Support, do the following before you call:

- Make sure that the unit is plugged in and powered on, that the specified inkjet print cartridges are installed correctly, and that the recommended paper is properly loaded in the IN tray.
- 2 Review Chapter 2, "Setting Up Your New HP Color Copier," and Chapter 5, "Troubleshooting and Maintaining Your HP Color Copier."

- 3 Try resetting the unit by powering it off and then on again, using the white button located on the left side of the unit's front panel.
- 4 Call the HP FIRST toll-free number or check the HP Web site at <a href="http://www.hp.com/go/copiers">http://www.hp.com/go/copiers</a> for more information that might help.
- 5 If you are still experiencing problems and need to speak with an HP Customer Support Representative, do the following:
  - Have your serial number ready.
  - Make a color copy.
  - Be prepared to describe your problem in detail.
- 6 Call HP Customer Support. Be near your HP Color Copier when you call.

### **Prepare Your HP Color Copier for Shipment**

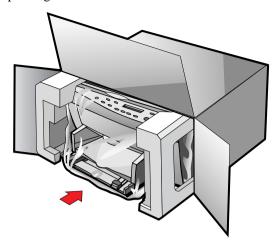
If after contacting HP Customer Support you are requested to send your HP Color Copier in for service, do the following:

- 1 Turn on the HP Color Copier.
- 2 Open the print-cartridge access door.
- 3 Remove both print cartridges, and leave the print-cartridge latches flipped back.

### **CAUTION** Print cartridges that remain inside may damage your HP Color Copier.

- 4 Place the print cartridges in an airtight bag so they will not dry out, and put them aside (do not send them with the HP Color Copier, unless instructed to by the HP customer support call agent).
- 5 Turn off the HP Color Copier. You will see the message "Shutting Down" on the front-panel display.
- 6 Close the print-cartridge access door.

7 If available, pack the HP Color Copier for shipment using the original packing materials.



If you do not have the original packaging materials, you can request a replacement package set from HP Customer Support.

### **NOTE** Shipping damage caused by improper packaging is not covered under the warranty.

- **8** Include the following items in the box:
  - A brief description of symptoms for service personnel (samples of print quality problems are helpful).
  - A copy of the sales slip or other proof of purchase to establish the warranty coverage period.
  - Your name, address, and a phone number where you can be reached during the day.

## Calling in the U.S. During Warranty

Call (208) 323-2551 Monday through Friday from 6:00 A.M. to 10:00 P.M. Mountain Standard Time (MST) and Saturdays from 9:00 A.M. to 4:00 P.M. MST. This service is free during the warranty period; however, your standard long-distance phone charges still apply.

## Calling in the U.S. Post-Warranty

If your product is not under warranty, you can call (800) 999-1148. A percall, out-of-warranty support fee will be charged to your credit card. You can also call (900) 555-1500 (\$2.50 per minute) from 6:00 A.M. to 10:00 P.M. MST and Saturdays from 9:00 A.M. to 4:00 P.M. MST. Charges begin only when you are connected with a support technician. (Prices and hours are subject to change without notice.)

Support service is free during the warranty period; however, your standard long-distance phone charges will apply. In some cases, a flat fee per single incident will also apply:

Country	HP FIRST Number	<b>HP Support Number</b>
U.S. during warranty	(800) 333-1917	(208) 323-2551
U.S. post-warranty (per-call charge)	(800) 333-1917	(800) 999-1148
U.S. post-warranty (per-minute charge)	(800) 333-1917	(900) 555-1500
Canada	(800) 333-1917	(905) 206-4663

# **Technical Information**



# **Copy Specifications**

Copy speed may vary according to the complexity of the document.

- Digital image processing
- Up to 99 copies from original
- Digital zoom from 25 400%
- Poster, Max, Mirror, 2 on 1, Clone

## **Copy Speed and Resolution**

	Speed		Maximum Resolution	
	Text	Color	Text	Color
Fast	10 cpm	6 cpm	1200 x 300 dpi	1200 x 300 dpi
Normal	9 cpm	2 cpm	1200 x 300 dpi	1200 x 300 dpi
Best	1.5 cpm	0.4 cpm	2400 x 600 dpi	2400 x 600 dpi

## **Copy Margins**

	Тор	Bottom	Left	Right
U.S. Letter				
Copy at 100% and Clone	.04 in. (1.0 mm)	.46 in. (11.7 mm)	.25 in. (6.4 mm)	.25 in. (6.4 mm)
Reductions/Enlargements and Special Modes	.46 in. (11.7 mm)	.46 in. (11.7 mm)	.38 in. (9.65 mm)	.38 in. (9.65 mm)
2 on 1	.38 in. (9.65 mm)	.38 in. (9.65 mm)	1.05 in. (26.67 mm)	1.05 in. (26.67 mm)
U.S. Legal				
Copy at 100% and Clone	.04 in. (1.0 mm)	.46 in. (11.7 mm)	.25 in. (6.4 mm)	.25 in. (6.4 mm)
Reductions/Enlargements and Special Modes	.46 in. (11.7 mm)	.46 in. (11.7 mm)	.38 in. (9.65 mm)	.38 in. (9.65 mm)
2 on 1	.9 in. (22.86 mm)	.9 in. (22.86 mm)	.3 in. (7.62 mm)	.3 in. (7.62 mm)
A4				
Copy at 100% and Clone	.04 in. (1.0 mm)	.46 in. (11.7 mm)	.125 in. (3.2 mm)	.125 in. (3.2 mm)
Reductions/Enlargements and Special Modes	.04 in. (1.0 mm)	.46 in. (11.7 mm)	.37 in. (9.40 mm)	.37 in. (9.40 mm)
2 on 1	.38 in. (9.65 mm)	.38 in. (9.65 mm)	.39 in. (9.91 mm)	.39 in. (9.91 mm)

# **Paper Specifications**

## **Paper-Tray Capacities**

	Weight	Input Tray*	Output Tray*
Plain Paper	16-24 lb.	100	50 black 20 color
Transparencies	N/A	25	25 or less

<sup>\*</sup> Maximum capacity

### NOTE

OUT tray capacity is affected by the type of paper and the amount of ink you are using. HP recommends emptying the OUT tray frequently.

## **Paper Sizes**

U.S. Letter	8.5 in. x 11 in.
U.S. Legal	8.5 in. x 14 in.
A4	210 x 297 mm

### **Automatic Document Feeder**

	Weight	Quantity
U.S. Letter*	16 - 24 lbs.	30
A4	16 - 24 lbs.	30

<sup>\*</sup> Supports plain paper and most HP special papers. Does not support photo papers, transparencies, envelopes or labels.

# **Power Specifications**

◆ Source (Input) Voltage: 100 – 240 VAC\*

◆ Input Frequency: 50 – 60 Hz
 ◆ Current: 1A maximum

## **Environmental Specifications**

- ◆ Operating Temperature Ranges: 0° 45° C (32° 113°F)
- ◆ Recommended Operating Temperature Ranges: 5° 40° C (41° 104° F)
- ◆ Humidity: 15% 80% RH non-condensing
- ♦ Non-operating (Storage) Temperature Ranges:  $40^{\circ} 70^{\circ}$  C  $(104^{\circ} 158^{\circ}$  F)

## **Physical Specifications**

- Height: Base: 12.63 in. (32.1 cm); ADF: 19.75 in. with tray extenders up (50.2 cm)
- ◆ Width: 18.45 in. (46.9 cm) ◆ Depth: 17.25 in. (43.8 cm)
- ◆ Weight: Base: 26.2 lb (11.89 kg); Base/ADF: 31.71 lb (14.40 kg);

Base/Fax: 33.1 lb (15.03 kg)

# **Ordering Accessories and Supplies**

In the U.S., you may order printer supplies by calling HP Direct (800) 538-8787 for the name of your local authorized HP dealer. To order replaceable parts, call HP Direct for more information. Outside the U.S., call your local authorized HP dealer.

Supplies/Accessories	HP Reorder Number
Inkjet Print Cartridges	
HP Black Print Cartridge	C51645A or C51645G
HP Color Print Cartridge	C1823A, C1823D, or C1823G

<sup>\*</sup> Figures are based on using the AC adapter that came with your HP Color Copier (HP part number 0950-2880).

## **Regulatory Notices**

#### FCC Statement (U.S.A.)

The United States Federal Communications Commission (in 47 CFR 15.105) has specified that the following notice be brought to the attention of users of this product.

Declaration of Conformity: 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. 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. Class B 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, may 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 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

Product Regulations Manager, Hewlett-Packard Company, San Diego 619-655-4100.

The user may find the following booklet prepared by the Federal Communications Commission helpful: *How to Identify and Resolve Radio-TV Interference Problems*. This booklet is available from the US Government Printing Office, Washington DC, 20402. Stock No. 004-000-00345-4.

**CAUTION**: Pursuant to Part 15.21 of the FCC Rules, any changes or modifications to this equipment not expressly approved by the Hewlett-Packard Company, may cause harmful interference and void the FCC authorization to operate this equipment.

Telecommunications General Approval (UK)

Pursuant to Section 22 of Telecommunications Act of 1984, this product is approved for secondary attachment to approved primary attachment devices connected to the telecommunications network under the General Approval (NS/G/1234/5/100003).

#### **DOC Statement (Canada)**

Le present appareil numerique n'emet pas de bruitis radioelectriques depassant les limits applicables aux appareils numeriques de la class B prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

#### Geräuschemission

LpA < 70 dB am Arbeitsplatz im Normalbetrieb nach DIN 45635 T. 19

# **Declaration of Conformity**

according to ISO/IEC Guide 22 and EN45014

#### Manufacturer's Name and Address:

Hewlett-Packard Company, 16399 West Bernardo Drive, San Diego, California 92127-1899, USA.

declares, that the product

**Product Name:** HP Color Copier 170, 270, 160, 260

**Model Number(s):** C668xA, where x=5 or 6

C669yA, where y=0 or 1

**Product Options:** HP Color Copier 270 & 260 includes ADF HP part # C6681-60020

#### conforms to the following Product Specifications:

**Safety:** EN60950:1992 +A1, A2, & A3

IEC 950:1991 +A1, A2, A3, & A4

UL1950, 3rd Edn: 1995

CSA22.2 No. 950 3rd Edn: 1995

NOM-019-SCFI-1993

EMKO TSE(74-SEC)207/1994

**EMC:** CISPR22:1993/EN55022:1994 - Class B

EN50082-1:1992

IEC 1000-3-2:1995 / EN61000-3-2:1995 IEC 1000-3-3:1994 / EN61000-3-3:1995

Taiwan CNS13438

FCC Part 15 - Class B / ICES-003, Issue 2 / VCCI-2

#### **Supplementary Information**

LED'S IN THIS PRODUCT ARE CLASS I IN ACCORDANCE TO IEC825-1 and EN60825-1.

The Product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and EMC Directive 89/336/EEC, and carries the CE marking accordingly.

### VCCI-2

printer will insert

#### **Owner's Information**

Please complete the following for future reference.

**HP Color Copier:** 

Serial Number:

Date of Purchase:

Place of Purchase:

Address:

Phone Number:

Service Contract Number:

Date of Contract Expiration:

### **Safety Symbols**



If present, this symbol is placed on the HP Color Copier where it is necessary for you to refer to the manual to understand a hazard.



If present, this symbol is placed on the HP Color Copier within the area where hazardous voltage is present. Only trained service persons should perform work in this area.



If present, this symbol is placed on the HP Color Copier within the area where electrostatic discharge (ESD) may occur. ESD can damage the HP Color Copier's electronic components. Avoid touching electronic components or circuit paths. Use proper grounding devices when circuits are open to outside areas.

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