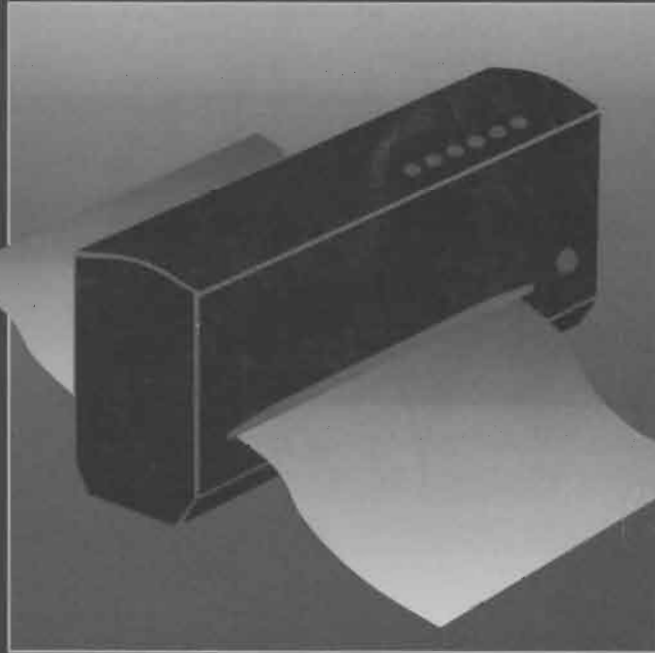


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# HP DeskJet Portable Printer



User's Guide



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## *Using this manual*

This manual is divided in to four parts to help you quickly find the information you need.

### ***Part 1. Getting Started***

This part contains printer setup and installation instructions (chapter 1, “Setting Up Your Printer”) and describes how to use the features of your printer (chapter 2. “Getting to Know Your Printer”).

*Follow the instructions in chapter 1 to setup your printer and establish communication between your printer and the computer before you begin using the printer.*

### ***Part 2. Using Your Printer***

This part gives you detailed information about using your printer. It gives guidelines on how to print with your software and gives detailed information about using media, using the print cartridge, using the printer on battery power, using the optional cut-sheet feeder, and configuring your printer.

### ***Part 3. Troubleshooting and Maintenance***

This part contains information to help you solve printer problems. If you have difficulty using your printer, try the suggestions in this part. This part also contains on caring for your printer to keep it performing at its best.

### ***Part 4. Reference***

This part contains information about setting up page formats, using printer fonts, available character sets, the HP PCL level 3 printer control language, printer specifications, regulatory notices, and ordering information for HP DeskJet Portable printer accessories and supplies.

**HP Computer Museum**  
**[www.hpmuseum.net](http://www.hpmuseum.net)**

**For research and education purposes only.**

---

## ***HP DeskJet Portable Printer Optional Accessories***

The HP DeskJet Portable has a whole set of optional accessories to meet your printing needs.

*Cut-sheet feeder* Connects easily to the printer unit to provide no-hands sheet feeding. Holding up to 50 sheets of 16 lb. (60 g/m<sup>2</sup>) paper or 40 sheets of 20 lb. (90 g/m<sup>2</sup>) paper, it gives you more convenience, especially when printing multi-page documents.

*Rechargeable battery* Installs easily in the printer and lasts for up to 100 pages of printing. Great for when you print away from your office; in the airport, in your hotel room, almost anywhere you take your portable printer. It recharges in the printer (six hours) or in the Worldwide Rapid Recharger (one hour).

*Worldwide Rapid Recharger* Recharges the battery in one hour and holds two batteries at once (charging them sequentially). It's great for heavy battery users or international travellers (this unit works on multiple voltages). It can be used in place of the standard power module and is compact for portability.

*Carrying case* The practical and stylish case holds the HP DeskJet Portable printer, a notebook PC, and accessories. The case makes it easier to take the HP DeskJet Portable printer wherever you need to go.

*Replacement Portable I/O cable* This specially designed low profile cable comes standard with your HP DeskJet Portable printer. It is also sold separately.

To purchase any of the accessories listed above, refer to chapter 14, "Ordering Information," in the *HP DeskJet Portable User's Guide* or see an HP authorized printer dealer.



# **DeskJet Portable Printer User's Guide**

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Manual Part Number  
C2614-90005

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# Table of Contents

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## Part 1            Getting Started

---

### ***Chapter 1        Setting Up Your Printer***

- Before You Begin 1-2
- Step 1. Determining Where to Set Up Your Printer 1-3
- Step 2. Unpacking the Printer 1-4
- Step 3. Installing the Optional Battery 1-5
- Step 4. Connecting the Printer Interface Cable 1-7
- Step 5. Connecting the Power Module 1-8
- Step 6. Installing the Print Cartridge 1-9
- Step 7. Printing a Printer Self Test 1-12
- What's Next 1-14

---

### ***Chapter 2        Getting To Know Your Printer***

- The Printer at a Glance 2-2
- Using the Printer Control Panel 2-3
- Other Methods of Selecting Printer Features 2-10

## Part 2            Using Your Printer

---

### ***Chapter 3        Printing with Your Software***

- Setting Up Your Software for Printing 3-2
- Using Software with Your Printer 3-5
- Using Printer Commands 3-6

---

### ***Chapter 4        Using Media in Your Printer***

- The Paper Path 4-2
  - Selecting Your Media 4-3
  - Using Plain Copier Paper 4-3
  - Recommended Media Types 4-4
  - Types of Media to Avoid 4-5
-

Loading Paper in the Printer 4-5  
Loading Special Media Types 4-6  
Printing Transparencies 4-6

---

**Chapter 5**     ***Using the Print Cartridge***

Replacing the Print Cartridge 5-2  
Maintaining the Print Cartridge 5-6

---

**Chapter 6**     ***Using Battery Power***

Understanding Battery Operation 6-2  
Handling the Battery 6-5  
Replacing the Battery 6-6  
Charging the Battery 6-8  
Manually Selecting  
Quick-Charge Mode 6-9  
Checking the Battery Charge Level 6-11  
Maintaining Battery Performance 6-13

---

**Chapter 7**     ***Using the Optional Cut-Sheet Feeder***

The Cut-Sheet Feeder at a Glance 7-2  
Setting Up the Cut-Sheet Feeder 7-4  
Removing the Printer from the Cut-Sheet Feeder 7-8  
Loading Paper in the Cut-sheet Feeder 7-9  
Printing Labels 7-12  
Loading Media Manually 7-13

---

**Chapter 8**     ***Configuring Your Printer***

The Configuration Pointer 8-2  
The Configuration Menu 8-3  
Configuration Mode Button Functions 8-6  
Configuring the Printer 8-7  
Checking the Current Configuration 8-9  
Resetting to the Factory Default Configuration 8-10

---

Part 3                    Troubleshooting and Maintenance

---

**Chapter 9            *Troubleshooting***

- No Response from the Printer 9-2
  - Control Panel Error Light Indications 9-4
  - Print Quality Problems 9-7
  - Printing Problems 9-9
  - Media Handling Problems 9-10
  - Battery Problems 9-12
  - Clearing Paper Jams 9-13
  - Performing the Printer Self Test 9-16
  - Solving Print Cartridge Problems 9-20
  - Returning Your Printer For Service 9-21
  - Customer Support 9-21
- 

**Chapter 10          *Caring for Your Printer***

- Maintaining Your Printer 10-2
- Preparing Your Printer for Transporting and Storing 10-4

Part 4                    Reference

---

**Chapter 11          *Page setup***

- Media Size 11-2
  - Page Orientation 11-3
  - The Printable Area 11-4
  - Landscape Printing 11-6
  - Margins 11-8
  - Perforation Skip Mode 11-9
  - Text Scale Mode 11-10
  - Avoiding Page Formatting Problems 11-11
-

---

**Chapter 12**    **Printer Fonts**

Font Terms 12-2

The Printer and Fonts 12-8

Methods for Selecting Fonts 12-10

Using Fonts in Your Documents 12-11

Expanding Your Font Selection 12-12

---

**Chapter 13**    **Technical Information**

Specifications 13-2

Regulatory Notices 13-5

Character Sets 13-8

Printer Commands 13-19

Centronics Parallel Interface 13-31

---

**Chapter 14**    **Ordering Information**

The Standard Unit 14-2

Ordering Supplies and Accessories 14-3

Supplies and Accessories List 14-4

---

**Glossary**

---

**Index**

---

# PART 1

- 1 Setting Up Your Printer
- 2 Getting to Know Your Printer

 **Getting Started**



---

# 1



## Setting Up Your Printer

Before You Begin .....	1-2
Step 1. Determining Where to Set Up Your Printer.....	1-3
Step 2. Unpacking the Printer .....	1-4
Step 3. Installing the Optional Battery .....	1-5
Step 4. Connecting the Printer Interface Cable .....	1-7
Step 5. Connecting the Power Module .....	1-8
Step 6. Installing the Print Cartridge .....	1-9
Step 7. Printing a Printer Self Test.....	1-12
What's Next.....	1-14

## Before You Begin

In this chapter, you will perform the following tasks.

1. Determine where to set up your printer.
2. Unpack your printer.
3. Install the printer battery.
4. Connect the interface cable.
5. Connect the power module.
6. Install the print cartridge.
7. Print a printer self test.
8. Establish communication between the printer and the PC.

After you have set up your printer, refer to the remaining chapters of this user's guide for instructions on using its features.

---

### NOTE

Each printer function is activated either by "pressing" a button or by "pressing and holding" buttons.

To *press* a button means to press the button and release it immediately.

To *press and hold* a button means to press the button and hold it down until the function has started (approximately 1 second).



## Step 1. **Determining Where to Set Up Your Printer**

Your HP DeskJet Portable printer is a portable printer that you can use almost anywhere. However, to ensure that you get the best results, always use the following guidelines:

- Use the printer in an environment that meets the following temperature requirements:

5°C (41°F) to 40°C (104°F)  
(AC power mode)

10°C (50°F) to 40°C (104°F)  
(battery power mode)

For best print quality, use the printer within a temperature range of 15°C (59°F) to 35°C (95°F)

- Use the printer at altitudes below 4600 m (15 000 ft.)
- Set the printer on a flat, level surface.
- Set up the printer in a clean dust-free environment to avoid poor printer performance.
- Do not set the printer in direct sunlight. Direct sunlight can heat the printer to a temperature that can degrade printer performance and cause damage to the printer.

---

## Step 2. Unpacking the Printer

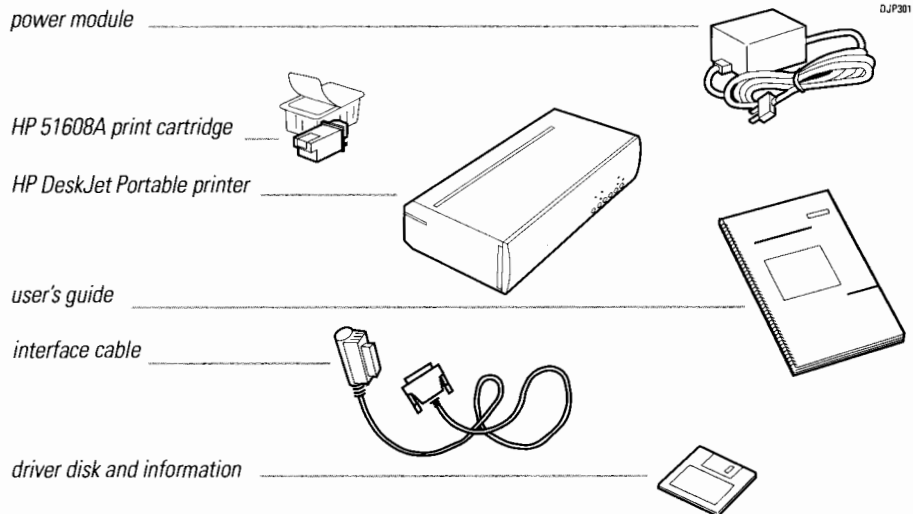
1

Remove the HP DeskJet Portable printer and accessories from the carton and set the printer on a flat, stable surface.

Save the carton and packing material in case you need to ship your printer later.

2

Make sure that you have all of the items shown below. If any of these items are missing or damaged, contact the dealer from whom you purchased your printer.



## Step 3. Installing the Optional Battery

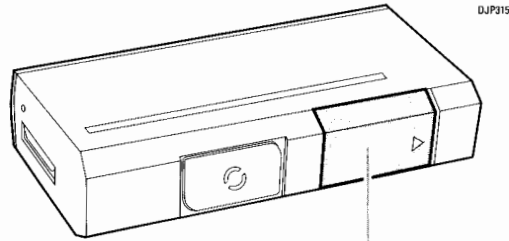
**NOTE**

The HP DeskJet Portable printer operates with an AC power module or an optional battery. If you are not using a battery, skip this step and continue with Step 4, "Connect the Printer Interface Cable"

For maximum portability, you can operate the HP DeskJet Portable printer with a Hewlett-Packard 6-volt, 1.2-Ah nickel-cadmium battery. The printer also operates with some Panasonic battery packs. The table on page 6-2 lists compatible batteries.

**1**

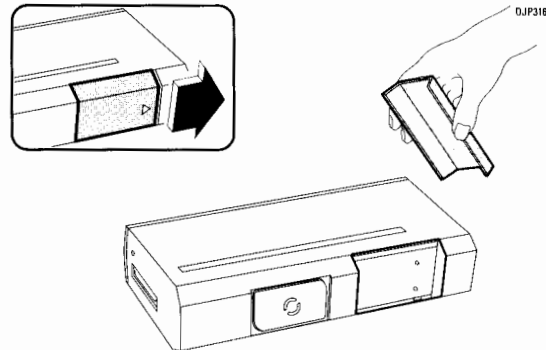
Place the printer on its side with the battery compartment to your right side as shown.



*battery compartment*

**2**

Slide the battery compartment cover to the right and remove it from the printer.



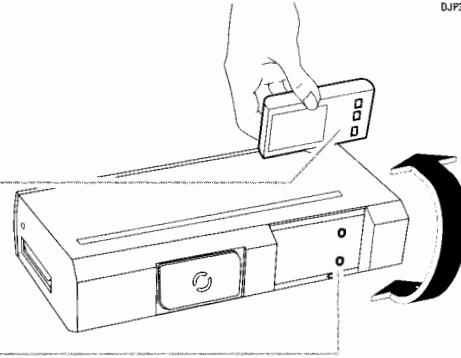
Setting Up Your Printer  
Step 3. Installing the Optional Battery

**3**

Align the battery contacts with the printer contacts.

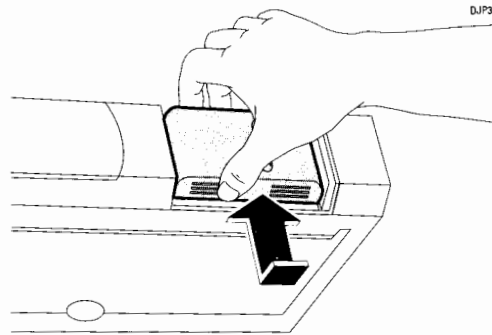
battery contacts

printer contacts



**4**

Insert the battery by aligning it with the bottom edge of the battery compartment and sliding it upward until you hear a "click."



**5**

Reinstall the battery compartment cover.

You must fully charge a new battery before using the printer in the battery mode.

After completing the printer setup procedure in this chapter, refer to chapter 6, "Using Battery Power" for information about battery charging.

NOTE

You must press the battery release switch in the battery compartment to remove a battery from the printer. Refer to "Replacing the Battery" in chapter 6.

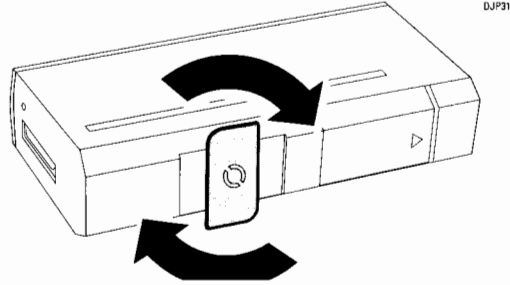
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## Step 4. Connecting the Printer Interface Cable

The HP C3061A printer interface cable provided with your printer is a Centronics parallel interface cable. It is very flexible and is easy to install and remove.

1

Rotate the printer stand 90 degrees and set the printer on a flat, level surface.



2

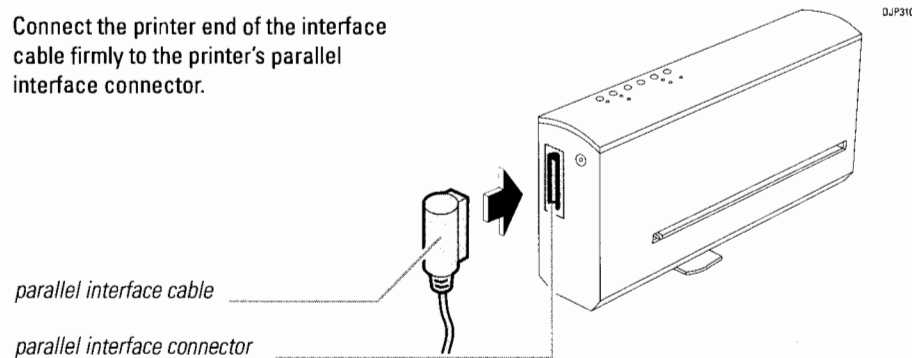
Make sure the printer is turned off (no control panel indicators are lit). If the printer is on, press and hold the *Power* button for 1 second to it off.

3

Connect the computer end of the interface cable to the parallel interface port on your computer. Tighten the screws on the connector.

4

Connect the printer end of the interface cable firmly to the printer's parallel interface connector.



---

## Step 5. Connecting the Power Module

---

**NOTE**

The HP DeskJet Portable printer operates with an optional battery or an AC power module. If you have a charged battery installed in your printer and will be using your printer in battery mode, skip this step and continue with “Step 6. Install the Print Cartridge.”

---

**CAUTION**

Use only the HP power modules listed in this section with your printer. Use of other power modules may damage your printer.

If you travel internationally, make sure you have the appropriate power module for the country where you will be using the printer.

You can purchase a universal adaptor/recharger from HP for your printer. The HP Worldwide Rapid Recharger can be used in place of the standard power module with AC power sources of 100 volts to 240 volts, 50 or 60 Hz.

---

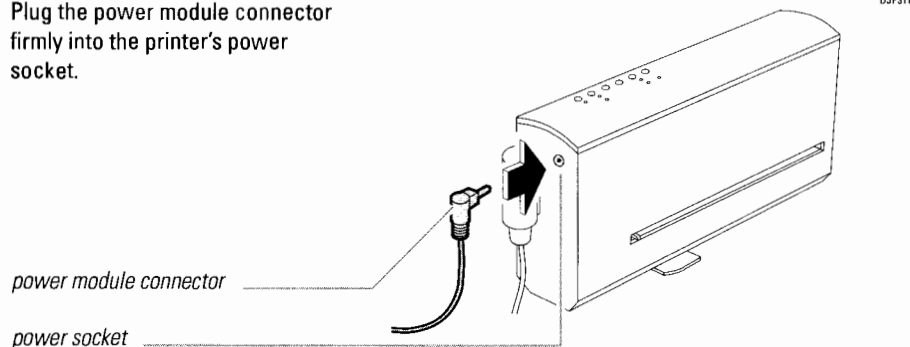
**1**

Make sure that the correct power module was shipped with your printer. Compare the part number on the power module box with the part number shown for your area in the power module list in chapter 14.

---

**2**

Plug the power module connector firmly into the printer's power socket.



---

**3**

Plug the other end of the power module cord into an AC outlet.

---

**NOTE**

To avoid magnetic interference, place the power module on the floor, or at least 3 cm (approximately 1 inch) from your computer, disk drive, or hard disk.

## Step 6. Installing the Print Cartridge

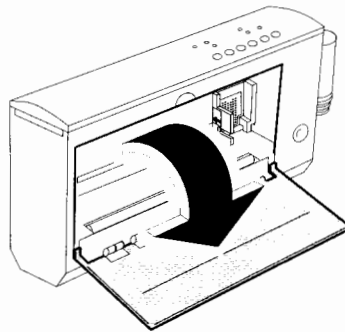
Use *only HP 51608A black print cartridges* with your HP DeskJet Portable printer. Other print cartridges do not fit in the print cartridge cradle.

### CAUTION

The ink in the print cartridge has been carefully formulated by Hewlett-Packard to ensure superior print quality and compatibility with the print cartridge station within the printer. Damage to the printer or print cartridge resulting from modifying or refilling the print cartridge is not the responsibility of Hewlett-Packard.

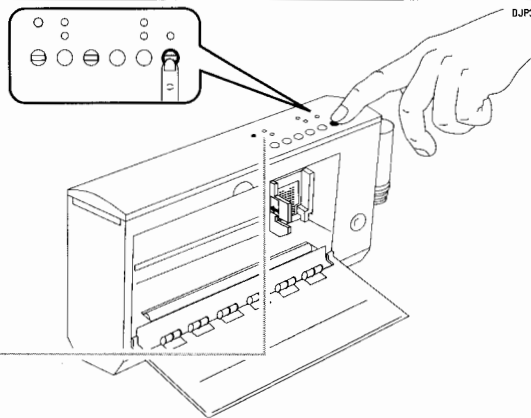
1

Open the access door on the side of the printer.



2

Press the *Power* button to turn on the printer. When the *Busy* indicator lights, release the *Power* button.



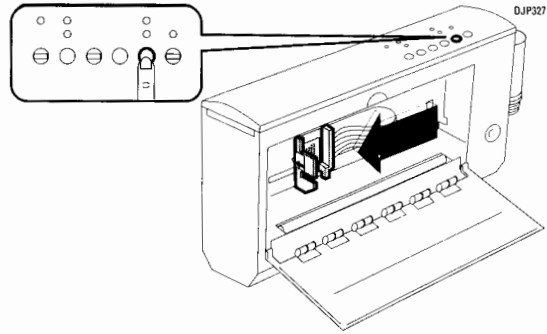
3

Turn on your computer.

If the printer is connected to the computer's parallel interface port, the control panel buttons (except for the *Power* button) may be inoperative when the computer is off.

4

Press and release immediately the *Settings* button on the printer control panel to move the print cartridge cradle to the loading position.



5

Verify that the Change Pen indicator is blinking, indicating that the print cartridge cradle has moved to the loading position.

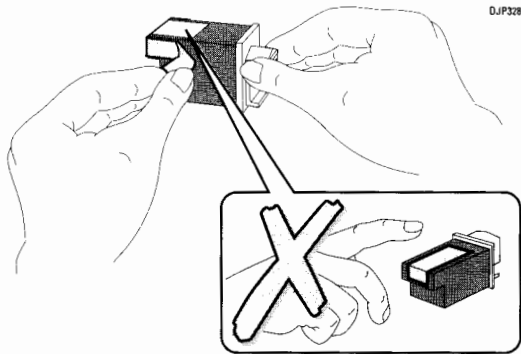
If the Change Pen indicator is not blinking, press the *Settings* button to return the print cartridge cradle to the home position, then repeat step 4.

If the print cartridge cradle is left in the loading position for five minutes, it automatically returns to the "home" position. This prevents the ink nozzles on the print cartridge from drying out.

6

Open the container for the print cartridge. Grasp the print cartridge by the green arrow or black area and remove it from the container. **Be careful not to touch the copper ribbon.**

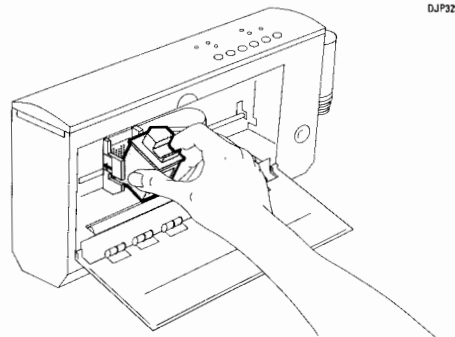
Gently remove the tape covering the ink nozzles on the print cartridge. **Be careful not to touch the ink nozzles.**



7

Hold the print cartridge so that the green arrow on the cartridge top points toward the print cartridge cradle. Then place the print cartridge into the bottom of the cradle.

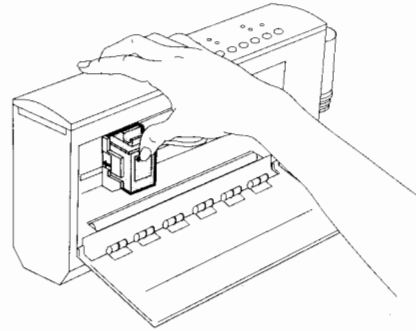
**Be careful not to slide the end of the cartridge against the back of the cradle. A sliding motion could damage the print cartridge cradle electrical contacts.**





**8**

Push the green arrow forward toward the top of the cradle, "snapping" the cartridge into place.

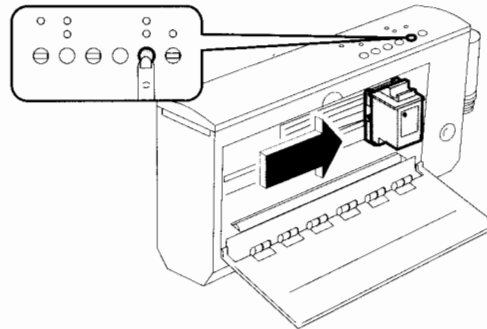


DJP330

**9**

Press the *Settings* button on the printer control panel.

The print cartridge cradle returns to the "home" position and the Change Pen indicator stops blinking.



DJP331

If the print cartridge cradle moves back to the loading position and the Change Pen indicator continues to blink, try reloading the print cartridge. Refer to chapter 5, "Using Print Cartridges," for print cartridge removal instructions. If the problem persists, refer to "Print Cartridge Problems" in chapter 9.

**10**

Close the access door.

You have finished setting up your printer and you are ready to print a printer self test.

---

## Step 7. Printing a Printer Self Test

To make sure your printer is working properly, follow these steps to print a printer self test.

**1**

Make sure the printer is turned off. If the printer is turned on, press and hold the *Power* button for approximately 1 second to turn it off.

**2**

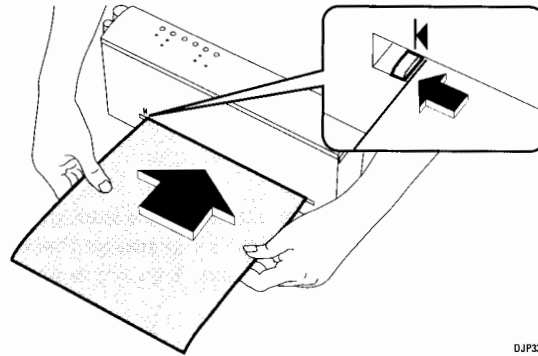
Press and hold the *Font* button; then press and hold the *Power* button. Release both buttons after the Busy indicator lights.

**3**

Align the edge of the sheet with the alignment mark next to the paper feed slot and insert it into the paper-feed slot, print side up, until it stops.

After approximately 1 second, the paper-feed rollers will grip the sheet and pull it into the printer. Release the sheet at this time.

The Online indicator blinks when the printer is ready for another sheet of paper to be loaded.

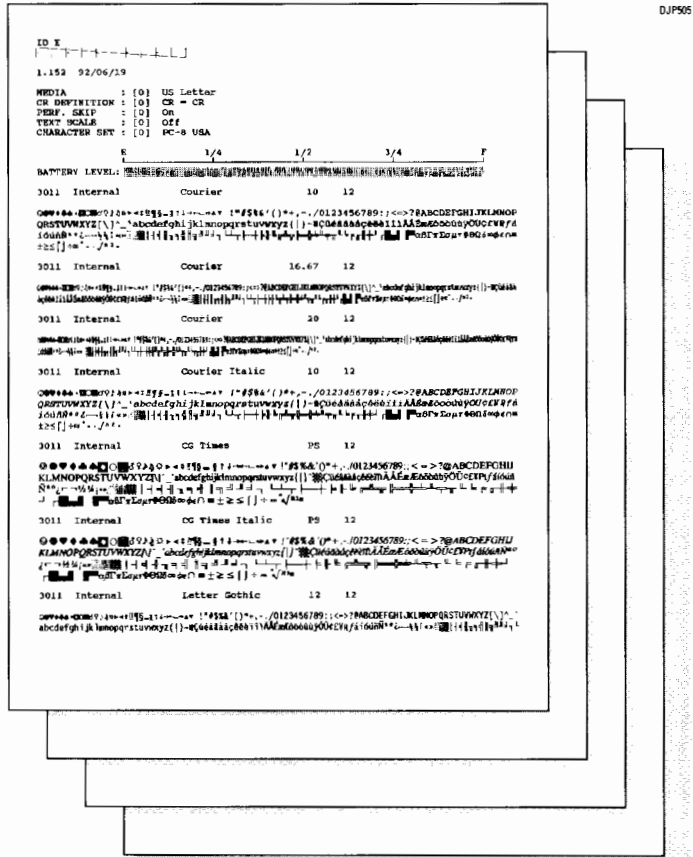


**4**

When the Online indicator starts blinking, repeat step 3 to print the remaining pages of the printer self test.

Compare the test pattern with the reduced example of the printer self test shown on the following page. If nothing prints, refer to "Printer Self Test Problems" in chapter 9 for help.

The print cartridge identification and firmware version on your printer's self test may differ from the example.



## What's Next

### *Establish Communication Between the Printer and the PC*

To establish communication between the printer and computer, you need to type a Mode statement into your computer's AUTOEXEC.BAT file. If the Mode statement is already set up for your printer, you do not need to establish communication.

A Mode statement in your AUTOEXEC. BAT file allows the computer to send information to the printer. If you are replacing a printer with the HP DeskJet Portable printer, the correct Mode statement may already exist in your AUTOEXEC.BAT file. If you are familiar with this file, check it to make sure the current Mode statement is correct. The Mode statement for a parallel connection is shown below:

**MODE LPT1:.,P**

If you are unfamiliar with this process, refer to your DOS manual for information on the Mode statement.

### *Verifying Communication*

You can print a directory listing to verify that your printer and computer are communicating. To print a directory listing, follow these steps:

1. Insert a sheet of paper into the printer.
2. Make sure the Online Indicator is lit. If the Online indicator is not lit, press the *On line* button.
3. Type: **DIR>PRN** and press **Enter**

The printer prints a list of file names from your current directory. When the printer has finished printing, you may have to press and hold the *LF/FF* button on the printer to eject the page. If the printer does not print a directory, refer to chapter 9, "Troubleshooting."

### ***Setting up your software to work with the printer***

Now that the printer is set up with your computer, you must set up your software to work with the HP DeskJet Portable printer by installing printer drivers. Printer drivers are files that control the printer and allow your software access to the printer's features. Refer to chapter 3, "Printing with Your Software," for more information.

NOTE

Your ability to access some printer features, such as font selection and transparency printing, depends on your software. Upgrading your software may be required.

### ***If you use battery power***

If you have installed a new battery for the first time, you must fully charge the battery before using the printer in battery mode. The printer will fully charge a new battery in 6 hours. For instructions, refer to chapter 6, "Using Battery Power."

### ***If you have the optional worldwide recharger***

For information on using the HP Worldwide Rapid Recharger, refer to the instruction booklet that came with your recharger.

### ***If you have the optional cut-sheet feeder***

For information on setting up and using your cut-sheet feeder, refer to chapter 7, "Using the Optional Cut-Sheet Feeder."

### ***Learning more about your printer***

For more information on using your printer, refer to the remaining chapters in this user's guide. Chapter 2, "Getting to Know Your Printer," describes how to use the printer control panel. Chapter 4, "Using Media in Your Printer," describes how to use paper and other types of media. Chapter 8, "Configuring Your Printer," describes how to change the default printer configuration.

### ***Need help?***

If you have problems with the setup or operation of your printer, refer to chapter 9, "Troubleshooting." If you need additional help, refer to "Customer Support" in chapter 9 for phone numbers to call for help.

### ***Proof of Purchase label***

There is a two-part label inside the battery compartment. The top part, entitled "Proof of Purchase," is a removable label you can use to verify your printer purchase. Do not remove this label unless instructed to do so in applicable promotional materials.



## **Getting To Know Your Printer**

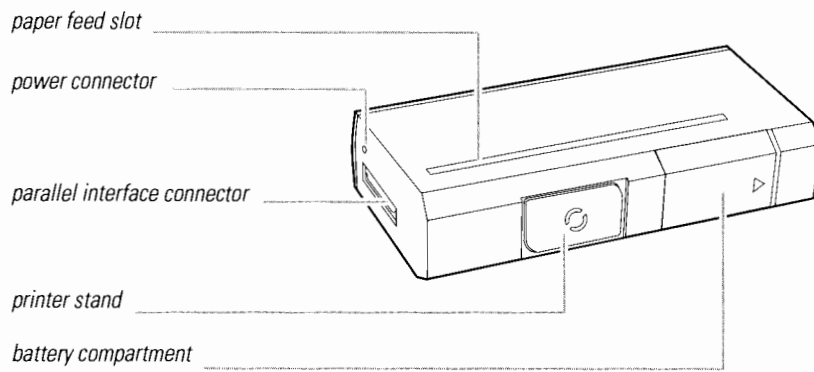
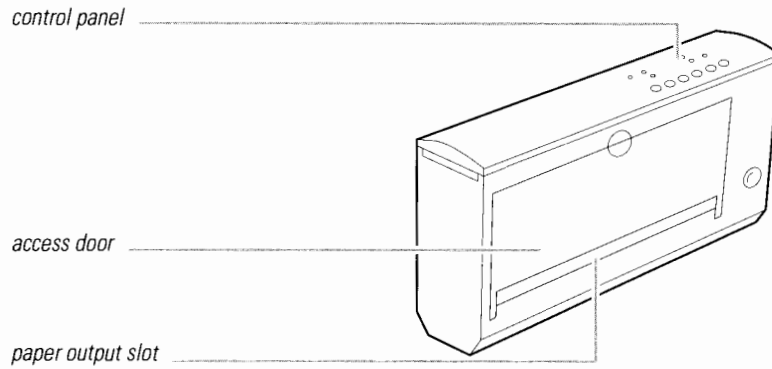
The Printer at a Glance .....	2-2
Using the Printer Control Panel .....	2-3
Other Methods of Selecting Printer Features.....	2-10

---

## The Printer at a Glance

Become familiar with the parts of the printer shown below. This will help you use the printer.

DJ.P300





## Using the Printer Control Panel

The printer control panel has six buttons and nine indicators.

You activate printer functions one of two ways:

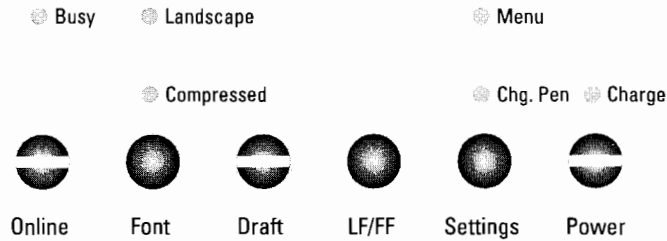
- by pressing a button momentarily
- by pressing and holding a button for approximately 1 second (until the functions has started).

The instructions in this guide tell your which method to use, depending on the function you are activating. The following pages describe the use of control panel buttons and indicators.

---

### NOTE

Software settings override print quality or font selections made from the control panel. Refer to your software manual for information.

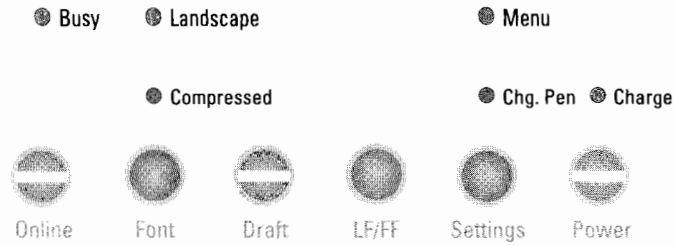


0JPS07

### Control panel buttons

Button	Function
<i>On line</i>	<p>Press this button to take the printer off-line (suspend or disable printing) or to place the printer on-line (ready to print data).</p> <p>Press the <i>On Line</i> button during printing to pause printing. To resume printing, press the <i>On line</i> button again.</p>
<i>Font</i>	<p>Press this button to select internal printer fonts.</p> <p>The <i>Font</i> button is disabled when the Busy indicator is on or blinking.</p>
<i>Draft</i>	<p>Press this button to select draft (Draft indicator on) or letter quality mode. The printer's default quality mode is letter quality.</p> <p>The <i>Draft</i> button is disabled when the Busy indicator is on or blinking.</p>
<i>LF/FF</i>	<p>Press this button to advance the paper one line (4.2 mm).</p> <p>Press and hold this button for one second to load paper from the optional cut-sheet feeder or to eject paper from the printer.</p> <p>The <i>LF/FF</i> (Line feed/Form feed) button is disabled when the Busy and On line indicators are on.</p>
<i>Settings</i>	<p>Press this button to move the print carriage to the print cartridge loading position to change print cartridges (Change Pen function).</p> <p>Press and hold this button for one second to activate the printer Menu mode for configuring the printer.</p> <p>Press the <i>Settings</i> button again to return the print carriage to its home position or to exit menu mode.</p>
<i>Power</i>	<p>Press and hold this button to turn the printer on or off.</p>

<i>Power + Font</i>	To print the printer self test, Press and hold the <i>Font</i> button while turning on the printer. Release both buttons after the <b>Busy</b> indicator turns on.
<i>Power + Draft</i>	To clean the print cartridge ink nozzles, Press and hold the <i>Draft</i> button while turning on the printer. Release both buttons after the <b>Busy</b> indicator turns on.
<i>Power + On line + Settings</i>	To reset the printer to its factory default configuration, Press and hold the <i>On line</i> and <i>Settings</i> buttons while turning on the printer. Release all three buttons after the <b>Busy</b> indicator turns on.



DJPS06

### Control panel indicators

Indicator	Status	Meaning
<i>Power</i>	On	The printer is on.
	Off	The printer is off.
	Dimmed	The printer is in sleep mode (power-saving mode for battery operation only).
	Blinking	The battery level is low (battery operation only).
<i>Charge</i>	On	The battery is charging.
	Off	The battery is fully charged or the printer has no battery.
	Blinking	The printer is discharging the battery (see "Maintaining Battery Performance" in chapter 6).
<i>On line</i>	On	The printer is ready to print.
	Off	The printer is paused and unable to print.
	Blinking	The printer is out of paper.
<i>Busy</i>	On	The printer is processing and printing data.
	Off	There is no more data in the print buffer to print.
	Blinking	The printer has stopped printing but there is still unprinted data in the print buffer. Press and hold the <i>LF/FF</i> button to print the remaining data and eject the paper.
<i>Landscape</i>	On	A landscape-oriented font is selected.
	Off	A portrait-oriented font is selected.
<i>Compressed</i>	On	A compressed version of a font is selected.
	Off	A normal version of a font is selected.
<i>Draft</i>	On	Draft-quality printing is selected.
	Off	Letter-quality printing is selected.

<i>Chg. Pen</i>	<b>Off</b>	The change pen function is not selected.
	<b>Blinking</b>	The print cartridge cradle is in the loading position.
<i>Menu</i>	<b>Off</b>	The printer is in not in Menu mode.
	<b>Blinking</b>	The printer is in Menu mode.



### ***Turning the printer on and off***

To turn the printer on, press and hold the *Power* button until the Busy indicator turns on.

To turn off the printer, press and hold the *Power* button again.

#### NOTE

If the *Power* button is held down for more than 10 seconds, the printer will not turn on. This prevents the printer from being unintentionally turned on when you are transporting or storing it with the battery installed.

If a printer hardware error occurs and indicators are blinking, press the *Power* button to turn off the printer.

### ***Pausing the printer***

Press the *On line* button to pause the printer (take the printer off-line).

If you press the *On line* button during printing, the printer will finish printing the line it is on and stop.

Press the *On line* button again to resume printing (return the printer to on-line).

The printer resumes printing without losing data if it is paused during printing.

### ***Advancing paper***

To load paper from the optional cut-sheet feeder or to eject a sheet of paper from the printer, Press and hold the *LF/FF* button.

#### NOTE

It is not necessary to press and hold the *LF/FF* button when loading paper manually. The printer detects when paper is inserted into the paper-feed slot.

To advance the media one line, approximately 4.2 mm (1/6 inch), press the *LF/FF* button.

Press the *LF/FF* button each time you want to advance the paper. This function does not repeat.

### ***Selecting print quality***

To toggle the printer between draft (draft indicator on) and letter quality (draft indicator off), press the *Draft* button.

Draft or letter quality refers to print quality. Draft mode is lower quality than letter mode, but lets you print a document faster and saves ink. Letter mode provides the best print quality.

### ***Selecting internal fonts***

Internal fonts are fonts that are resident (built-in) in the printer.

To select the internal Courier 10 and 16.67 pitch, 12 point fonts in portrait or landscape mode, press the *Font* button.

The default font is portrait-oriented Courier 10-pitch font. The Compressed indicator lights if you select the internal Courier 16.67. The Landscape indicator lights if you select a landscape font. Both indicators light if the landscape-oriented Courier 16.67 pitch font is selected.

#### **NOTE**

Only those fonts listed above can be selected using the printer control panel. You must use software or printer commands to select other internal fonts.

Scalable fonts are accessible in Microsoft Windows versions 3.0 and 3.1.

Refer to chapter 12, "Printer Fonts," for a complete list of internal fonts, definitions of font terms, and more information on using printer fonts with your printer.

## **Other Methods of Selecting Printer Features**

The methods available for selecting printer features depend on your software. Software controls printer features in different ways. Some software let you select features using a menu, while other software require you to enter printer commands. If you are not sure of what method your software uses, refer to the printing section of your software manual for information.

Refer to chapter 3, “Printing with Your Software,” for more information.

**NOTE**

Software settings always override printer control panel and printer configuration menu settings.



---

## **PART 2**

- 3 Printing With Your Software
- 4 Using Media in Your Printer
- 5 Using Print Cartridges
- 6 Using Battery Power
- 7 Using the Optional Cut-Sheet Feeder
- 8 Configuring Your Printer



**Using Your Printer**





## **Printing with Your Software**

Setting Up Your Software for Printing.....	3-2
Using Software with Your Printer .....	3-5
Using Printer Commands .....	3-6

## Setting Up Your Software for Printing

Before you can begin printing with your software, you must prepare your software for printing with the HP DeskJet Portable printer. This chapter contains information to help you prepare your software.

### *Using a printer driver*

---

NOTE

Your software supports many printers through different printer drivers. To ensure maximum access of your printer features, use a printer driver for the HP DeskJet Portable printer.

Each software application requires a specific printer driver. A printer driver is a file that controls your printer and allows access to printer features. When you select printing options for a document, your software sends codes indicating your selection to the printer driver. The printer driver interprets the software codes and sends commands to the printer in the printer's language. If you select an incorrect printer driver, your printout may not be correct.

---

NOTE

Your system's ability to access fonts depends on your software. You may need to upgrade your software to enable your system to use all of the printer's features.

## ***Using Microsoft Windows***

### **Using the Microsoft Windows 3.1 Universal Printer Driver**

The Microsoft Windows 3.1 Universal Printer Driver for HP DeskJet Family Printers provides excellent support of HP DeskJet Portable printer features. Fonts support includes Windows 3.1 TrueType scalable fonts and internal portrait fonts. This printer driver is provided with your printer.

### **Using an alternate driver**

Full support for HP DeskJet Portable printer features is not available in Microsoft Windows 3.0. We recommend that you upgrade your software to Windows 3.1. If you cannot upgrade your software, use the HP DeskJet Family Driver or HP DeskJet Series Printer Driver.

- The DeskJet Family Driver works with Windows 3.0. This driver supports internal portrait fonts. The driver is provided with Windows 3.0.
- The DeskJet Series Printer Driver works with Windows 3.0 and Windows 3.1. This driver supports HP scalable fonts (HP Master Type Library). To get a copy of the HP DeskJet Series Printer Driver, contact your nearest HP Sales Office or authorized HP dealer.

If you use a driver that is not specifically updated for the HP DeskJet Portable printer, your system may not be able to use all the features of the HP DeskJet Portable printer.

### ***Using DOS applications***

If you use DOS software applications, you must install a printer driver for the HP DeskJet Portable printer.

### **Getting a Printer Driver**

If your software application does not include a printer driver for the HP DeskJet Portable printer, request it from the software manufacturer.

### **Selecting an Alternate Printer Driver**

If necessary, you can use an HP DeskJet Series printer driver as an alternative until you receive the HP DeskJet Portable printer driver.

#### **NOTE**

If you use an alternate printer driver, your system will not be able to use all of the HP DeskJet Portable printer features.

Use the HP DeskJet 550C printer driver as an alternate driver when printing text only, using transparencies\*, or using U.S. Executive size media. This driver fully supports the HP DeskJet Portable internal fonts and media. However, it does not support graphics for the printer.

If you are printing graphics and text, use one of these printer drivers: HP DeskJet 500, HP DeskJet PLUS, HP DeskJet. These drivers support graphics and text, but do not support all internal fonts, transparencies, or U.S. Executive size media. The following table summarizes driver support of printer features:

<b>Supported Feature</b>	<b>Driver</b>
Text with Full Font Support	DeskJet 550C
Text with Partial Font Support	DeskJet 500
Executive paper	DeskJet 550C
Transparencies*	DeskJet 550C
Graphics	DeskJet 500

\*The DeskJet 550C driver supports transparencies for the printer only if the transparencies contain no color data (contains only black).

### **Installing a Printer Driver**

The instructions for installing a printer driver vary depending on the software application. Refer to your software manual for instructions.

## Using Software with Your Printer

Using your software to select printing options, such as margins and fonts, is the easiest and most efficient method because it gives you more control over the way your document looks. Software applications control printer features in different ways, some allow you to select features through a menu, while others require you to enter printer commands.

---

**NOTE**

Software settings always override printer control panel and configuration menu settings.

Refer to your software manual for information about which method your software package uses to select printer features.

## Using Printer Commands

Another way you can select printer features is by using printer commands. A printer command (also known as an escape sequence) directs the printer to perform a task. Most software applications do not require you to send printer commands; the software sends the commands for you. Refer to your software manual for information about which method your software package uses to select printer features.

If your software application requires you to type printer commands in your file or in a menu, refer to chapter 13, “Technical Information,” for information on printer commands.





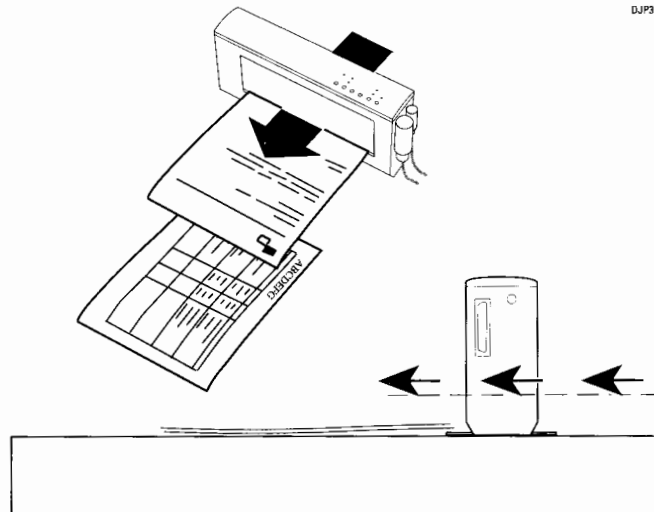
## **Using Media in Your Printer**

The Paper Path.....	42
Selecting Your Media.....	43
Using Plain Copier Paper.....	43
Recommended Media Types.....	44
Types of Media to Avoid.....	45
Loading Paper in the Printer.....	45
Loading Special Media Types.....	46
Printing Transparencies.....	46

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## The Paper Path

Paper, transparencies, and labels feed through the printer, print side up. They travel under the paper-feed rollers, and exit face up on the output side of the printer. The printer has a straight-through paper path.



**NOTE**

Select media size through your software, if possible. Software settings always override the configuration menu settings.

If you cannot set media size through your software, always set the media size in the configuration menu to match the media you are using. Refer to chapter 8, "Configuring your Printer" for instructions.

## Selecting Your Media

You can ensure superior performance from your printer by selecting high quality paper and transparencies for your printing jobs. Your printer works well with most paper types, although variations in paper composition may significantly affect print quality and paper handling. Use the paper, transparencies, and labels recommended in this chapter to ensure the best possible performance from your printer.

---

## Using Plain Copier Paper

Most plain paper manufactured for high-quality photocopying provides good quality printing when used with your printer. When using company letterhead, cotton bond paper provides excellent results. Test paper for suitability by printing on both sides before purchasing large quantities.

For the best print quality, print only on the print side of the plain paper. Before you remove the paper from a ream, check the label on the end of the ream. The print side is indicated by an arrow or other symbol or wording. Remove the paper you need from the ream and insert it into your printer with the print side facing up.

## Recommended Media Types

### *Recommended paper types*

When selecting paper for your printer, choose only paper meeting the following criteria:

- US Letter, US Legal, European A4, and US Executive size
- 60 to 90 g/m<sup>2</sup> (16 to 24 lb.) weight
- rag content of less than 25 percent

Colored photocopy, bond, letterhead paper, and preprinted forms that meet the above criteria may be used in the HP DeskJet Portable printer. Be sure that the paper is free of tears, dust, wrinkles, and has no curled or bent edges.

### *Recommended transparency film*

Use only the following HP LX JetSeries transparency film:

<b>Media</b>	<b>HP Part Number</b>
HP LX JetSeries Transparency Film (US Letter Size), 50 sheets	52636F
HP LX JetSeries Transparency Film (European A4 Size), 50 sheets	51636G

### *Recommended labels*

Use HP 92296 Series labels with your printer. Other high-quality labels for laser printers also may make work with your printer.

---

## Types of Media to Avoid

Avoid using the following media types in your printer:

- paper greater than 90 g/m<sup>2</sup> (24 lb) or less than 60 g/m<sup>2</sup> 16 lb (16 lb).
- paper with cutouts or perforations.
- transparency film other than HP LX JetSeries.
- multiple part forms.
- paper sizes other than those listed in this chapter.

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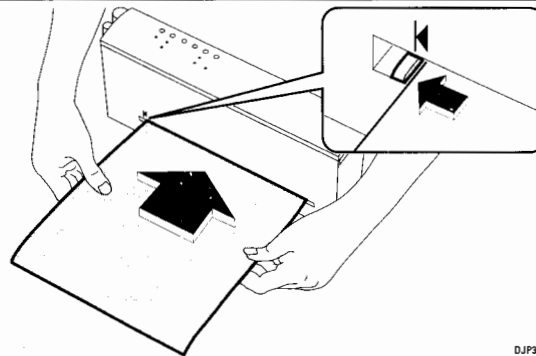
## Loading Paper in the Printer

### NOTE

If you are using the optional cut-sheet feeder with your printer, refer to chapter 7, "Using the Optional Cut-Sheet Feeder," for loading information.

### 1

Align the edge of the sheet with the alignment mark next to the paper feed slot. Then insert the sheet of paper, print side up, into the paper-feed slot until it stops.



DJP335

### 2

Release the sheet when the paper-feed rollers grip it and pull it into the printer (after approximately 1 second).

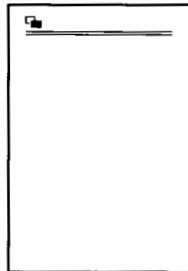
When printing multiple-page documents, the Online indicator blinks when the printer is ready to print another sheet of paper. Repeat step 1 to load another sheet of paper.

## Loading Special Media Types

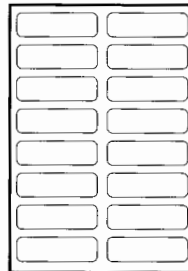
Loading instructions for letterhead, transparencies, and labels are essentially the same as for plain paper.

Observe the following guidelines when loading letterhead and transparencies:

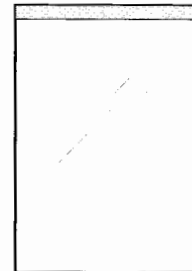
- load letterhead paper with the print side up and the letterhead first.
- load transparencies with the rough side up and the adhesive strip edge forward. The rough side of the transparency film is the print side.



**Letterhead**



**Labels**



**Transparency**

DJPS1

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## Printing Transparencies

To print transparencies, you must have a printer driver that supports transparencies. Always select the transparency media setting in your printer driver. Other media settings will NOT work with transparencies.

Always generate your transparencies in black. If your transparencies use color, they may not print.

---

# 5



## Using the Print Cartridge

Replacing the Print Cartridge.....	5-2
Maintaining Print Cartridges .....	5-6

## Replacing the Print Cartridge

Use only the HP 51608A black print cartridge with your HP DeskJet Portable printer. Other print cartridges do not fit the print cartridge cradle.

### CAUTION

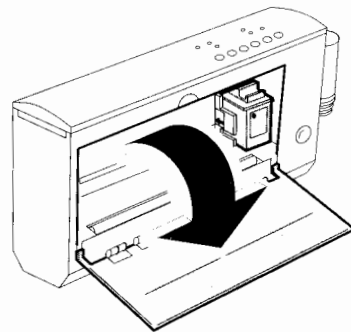
The ink in the print cartridge has been carefully formulated by Hewlett-Packard to ensure superior print quality and compatibility with the print cartridge within the printer. Damage to the printer or print cartridge resulting from modifying or refilling the print cartridge is not the responsibility of Hewlett-Packard.

1

If the printer is installed in the accessory cut-sheet feeder, remove it from the cut-sheet feeder, rotate the printer stand to the open position, and place the printer on a flat level surface. For removal instructions, refer to chapter 7, "Using the Optional Cut-Sheet Feeder."

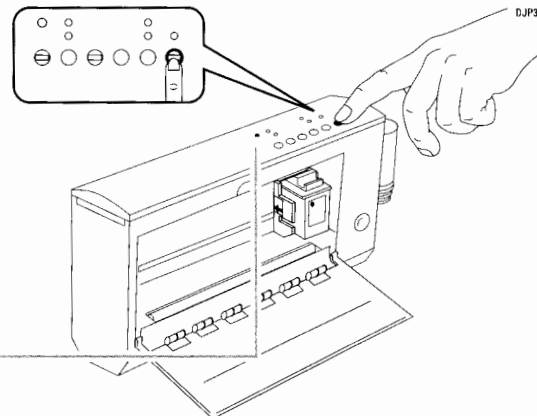
2

Open the access door on the side of the printer.



3

If the printer is turned off, press and hold the *Power* button until the Busy indicator lights.

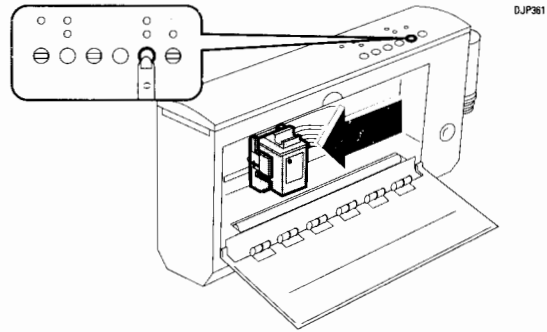


*Busy indicator*



4

Press the *Settings* button to move the print cartridge cradle to the loading position.



5

Verify that the Change Pen indicator is blinking, indicating that the print cartridge cradle is in the loading position.

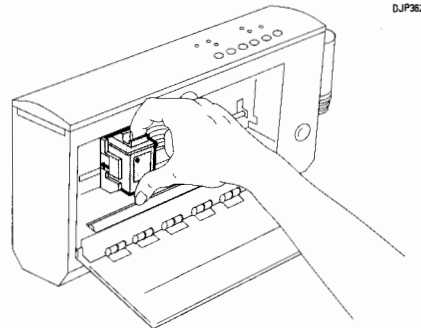
If the Change Pen indicator is not blinking, press the *Settings* button to return the print cartridge cradle to the home position. Then repeat step 4.

If the print cartridge cradle is left in the loading position for 5 minutes, it automatically returns to the home position. This prevents the ink nozzles on the print cartridge from drying out.



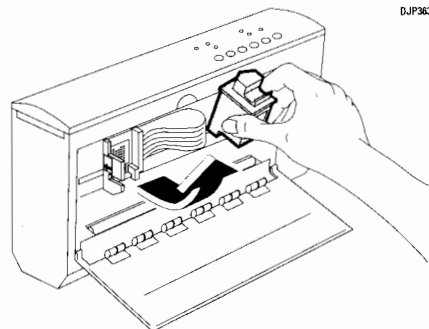
6

Grasp the green cartridge top while placing your thumb on the bottom edge of the cartridge. Pull the top of the cartridge toward you until the cartridge pops loose.



7

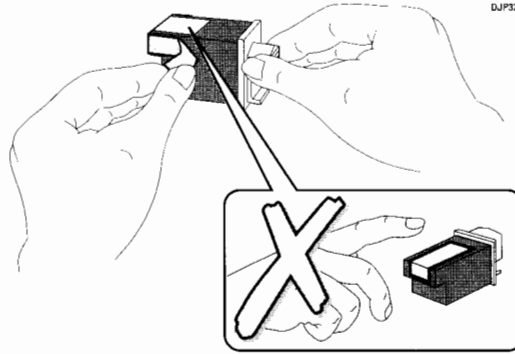
Lift the print cartridge out of the cradle.



8

Open the container for the new print cartridge. Grasp the print cartridge by the green arrow or black area and remove it from the container. **Be careful not to touch the copper ribbon.**

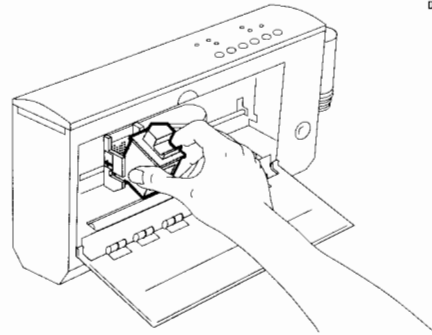
Gently remove the tape covering the ink nozzles on the print cartridge. **Be careful not to touch the ink nozzles.**



9

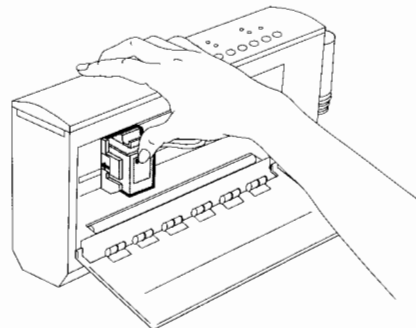
Hold the print cartridge so that the green arrow on the cartridge top points toward the print cartridge cradle. Then place the print cartridge into the bottom of the cradle.

**Be careful not to slide the end of the cartridge against the back of the cradle.** A sliding motion can damage the electrical contacts in the print cartridge cradle.



10

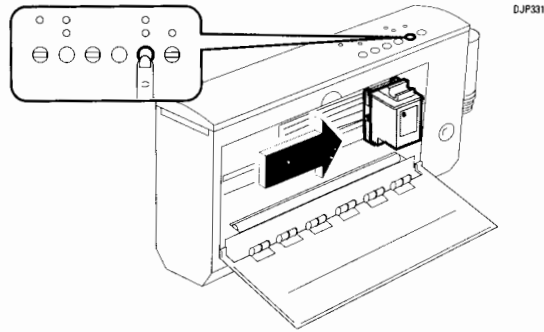
Push the green arrow forward toward the top of the cradle, snapping the cartridge into place.



11

Press the *Settings* button.

The print cartridge cradle returns to the home position and the Change Pen indicator stops blinking.



If the print cartridge cradle moves back to the loading position and the Change Pen indicator continues to blink, try reloading the print cartridge. If the problem persists, refer to "Print Cartridge Problems" in chapter 9.

12

Close the access door.

## Maintaining the Print Cartridge

To ensure excellent print quality from your print cartridges, observe the following guidelines:

- Keep the print cartridge in its sealed package until you are ready to use it.
- Store the print cartridge at room temperature.
- Store the print cartridge in the print cartridge cradle. Leaving print cartridges out of the cradle exposes the ink nozzles to air, causing the ink to evaporate. This reduces print quality and shortens print cartridge life.

---

### NOTE

There are many conditions that can cause print quality problems. To determine the cause and solution for a problem, refer to “Print Quality Problems” in chapter 9, “Troubleshooting.”

### *Cleaning the print cartridge*

To restore print quality when dots or lines are missing from your printout, follow these steps:

---

### CAUTION

Do not clean the print cartridge unnecessarily. This shortens the print cartridge life.

1. If the printer is turned on, press and hold the *Power* button for one second to turn the printer off.
2. Press and hold the *Draft* button, then press the *Power* button. Release the *Draft* and *Power* buttons when the busy indicator lights.
3. When the Online indicator starts blinking, insert a sheet of paper into the printer.

The printer prints a one-page cleaning pattern.

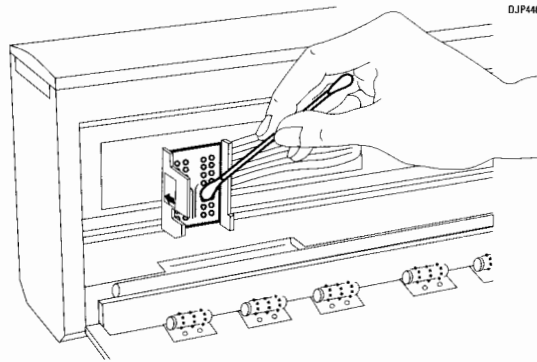
### ***Cleaning the print cartridge electrical contacts***

You must clean the print cartridge electrical contacts if the print cartridge cradle does not move to the home position when you press the *Settings* button. You may need to clean the print cartridge electrical contacts if the printer is printing incomplete characters or if dots or lines are missing from printouts.

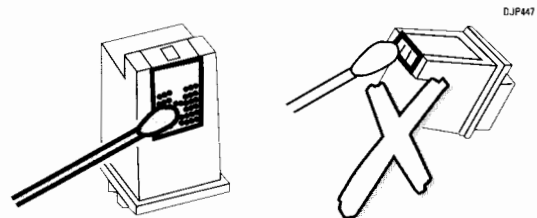
To clean the contacts, follow these steps:

**1** \_\_\_\_\_  
Remove the print cartridge following steps 1 through 7 in "Replacing the Print Cartridge" in this chapter.

**2** \_\_\_\_\_  
Clean the contacts on the print cartridge cradle with a foam-rubber swab moistened with water.



**3** \_\_\_\_\_  
Clean the contacts on the print cartridge with a foam-rubber swab moistened with water. **Do not wipe the ink nozzles on the print cartridge.**



**4** \_\_\_\_\_  
Reinstall the print cartridge following steps 8 through 13 of "Replacing the Print Cartridge" in this chapter.

### ***Removing dried ink from the print cartridge***

Exposing a print cartridge to air for an extended period of time can cause a layer of dried ink to form a crust on the nose of the print cartridge. *If this occurs, do not install the print cartridge in your printer until you have removed the dried ink.*

Remove the dried ink following these steps:

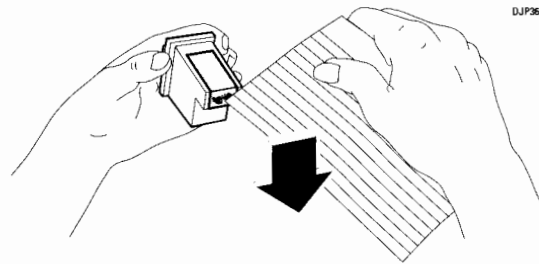
**CAUTION** Ink may stain your hands or clothing.

**1**

Grasp the print cartridge by the green cartridge top and hold it so that the ink nozzles point down toward a waste container.

**2**

Using the edge of a 3 in. x 5 in. index card or other rigid paper, gently scrape the dried ink so that it falls into the waste container.



**3**

After removing the dried ink, reinstall the print cartridge in your printer following steps 8 through 13 of "Replacing the Print Cartridge" in this chapter.

**4**

Clean the print cartridge following the steps in "Cleaning the print cartridge" in this chapter.

**5**

Print a document and evaluate the print quality. If the print quality is poor, replace the print cartridge following the steps in "Replacing the Print Cartridge" in this chapter.

---

# 6



## **Using Battery Power**

Understanding Battery Operation .....6-2  
Handling the Battery ..... 6-5  
Replacing the Battery ..... 6-6  
Charging the Battery ..... 6-8  
Manually Selecting Quick-Charge Mode ..... 6-9  
Checking the Battery Charge Level..... 6-11  
Maintaining Battery Performance ..... 6-13

## Understanding Battery Operation

For maximum portability, you can operate the HP DeskJet Portable printer with a Hewlett-Packard 6-volt, 1.2-Ah nickel-cadmium battery. The printer also operates with some Panasonic battery packs. The following table lists compatible batteries:

<b>Manufacturer/Country</b>	<b>Part Number</b>
<b>Hewlett-Packard Batteries</b>	
United States	HP C3003A
Japan	HP C3058A
Europe and other areas	HP C3059A
<b>Panasonic Battery Packs</b>	
United States	PV-BP15
Japan	VW-VBS1
Europe and other areas	VW-VBS1E

The printer prints approximately 100 pages using a fully charged battery.

### ***Print speed***

The print speed in letter quality mode is 167 characters per second (cps) using either AC or battery power modes. The print speed in draft quality mode is slower when using battery power (167 cps) than when using AC power (240 cps). Using the slower speed extends battery life.

### ***Sleep mode***

When operating on battery power, the printer goes to a power-saving sleep mode after 2 minutes of inactivity. While in sleep mode, all control panel indicators are off except for the Power indicator which is dimmed. Pressing any button “wakes up” the printer. The printer also “wakes up” when it receives data to be printed.



### ***Automatic power off***

If the printer is left in sleep mode for 30 minutes, the printer turns itself off. To restart the printer, press the *Power* button and hold it until the Busy indicator lights.

### ***Low battery level***

The Power indicator starts blinking when the battery charge level is low. The printer can then print approximately five more pages.

### ***Battery management***

Whenever you connect the AC power module and turn on the printer, the printer starts charging the battery from the current charge level to the maximum level. After fully charging a battery, the printer monitors the battery's charge level as long as it remains in the printer. Printing while a battery is being charged increases the charging time.



The following table summarizes how the printer charges a battery.

<b>When you install a</b>	<b>The printer</b>
fully charged battery	detects a fully charged battery. The printer maintains the battery at a fully charged level.
fully discharged battery	detects a fully discharged battery. The printer starts charging the battery using the quick-charge mode. It takes approximately 6 hours to charge a battery in this mode.
partially charged battery	is not able to determine the charge level. The printer starts charging the battery using the standard-charge mode. It takes less than 10 hours to charge a battery in this mode.
new battery	starts charging the battery when you connect the AC power module and turn on the printer. The charging mode used depends on whether the battery is fully discharged (quick-charge mode) or has a residual charge (standard-charge mode).

## **Handling the Battery**

Observe the following guidelines when handling batteries:

- Do not touch the battery contacts.
- Do not dispose of your used battery in a fire. The battery may explode.
- Follow local regulations for disposing used nickel-cadmium batteries.
- Do not place any object other than the battery in the battery compartment.
- Do not short the battery terminals.
- Refer to the instruction sheet that came with your battery for additional safety information.

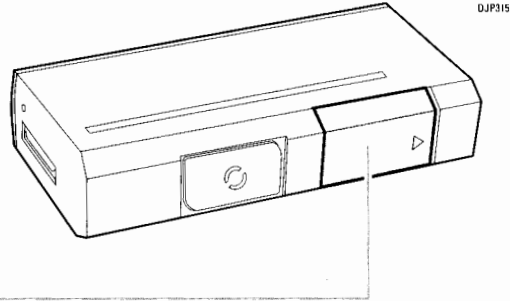
## Replacing the Battery

1

If the printer is installed in the accessory cut-sheet feeder, Remove it from the cut-sheet feeder. Refer to chapter 7, "Using the Cut-Sheet Feeder," for instructions.

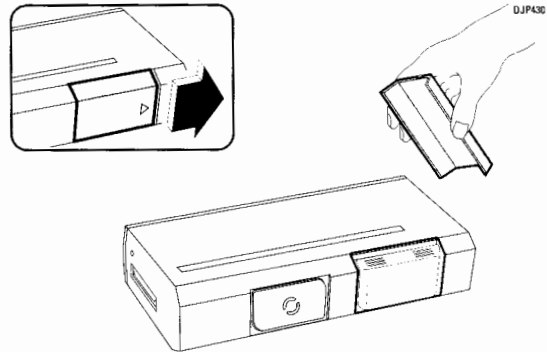
2

Place the printer on its side with the battery compartment to your right side, as shown.



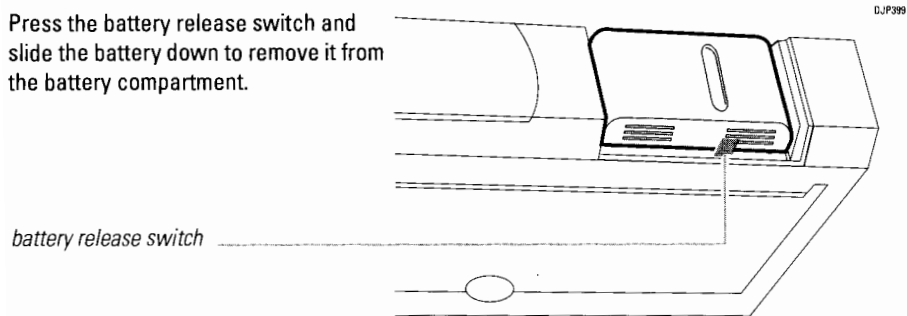
3

Slide the battery compartment cover to the right and remove it from the printer.



4

Press the battery release switch and slide the battery down to remove it from the battery compartment.

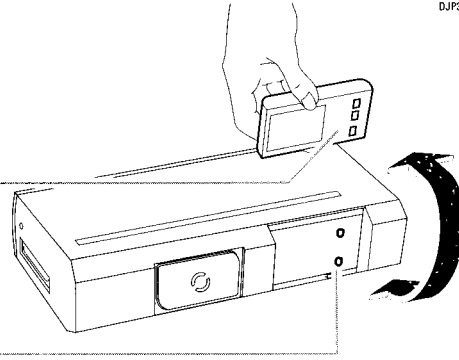


5

Align the contacts on the battery you are installing with the contacts on the printer.

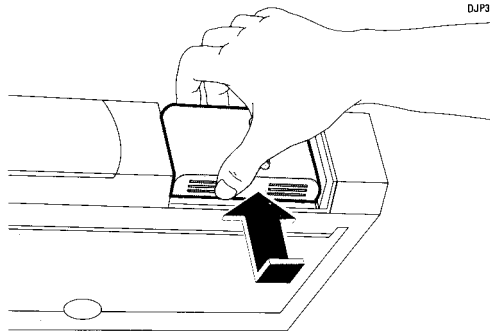
battery contacts.

printer contacts



6

Insert the battery by aligning it with the bottom edge of the battery compartment and sliding it upward until you hear a "click".



7

Reinstall the battery compartment cover.

New batteries are fully discharged. *You must fully charge a new battery before using the printer in battery mode.* Refer to the next section, "Charging the Battery," for instructions.

## Charging the Battery

### CAUTION

Use only the AC power module that came with your printer or the optional HP Worldwide Rapid Recharger. Use of other power modules may damage your printer.

1. Install the battery in the printer. For installation instructions, refer to “Replacing the Battery” in this chapter.
2. Connect the AC power module to the printer.
3. Turn on the printer.

The printer starts charging the battery when you turn on the printer. The Charge indicator remains lit while the printer charges the battery. The Charge indicator turns off when the battery is fully charged.

If you turn off the printer or disconnect the AC power module before the battery is fully charged, charging is halted. Charging continues when you reconnect the printer to the AC power module and turn on the printer.

### NOTE

You can purchase a universal adaptor/recharger from HP for your printer. The HP Worldwide Rapid Recharger can be used in place of the standard power module with AC power sources of 100 volts to 240 volts, 50 or 60 Hz. The recharger holds up to two batteries. It fully charges a battery in approximately 1 hour. Refer to chapter 14 for ordering information.

---

## Manually Selecting Quick-Charge Mode

The charging cycle in the HP DeskJet Portable printer maximizes the life of a battery. You can override the standard charging cycle by selecting the Charge function in the configuration menu. This quick-charge mode charges a battery in 6 or less hours. To maximize the life of your battery, *use the Charge function only with a new battery (fully discharged) or a battery with a low charge level.*

Do the following steps to activate the Charge function through the configuration menu:

NOTE

The printer redefines the control panel buttons in the configuration mode. Refer to chapter 8, "Configuring Your Printer," or the label on the printer's access door for information.

1

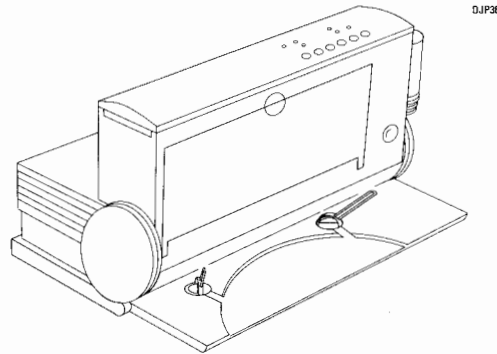
---

If you have a new battery, install it following the steps in "Replacing the Battery" in this chapter.

2

---

If the printer is installed in the optional cut-sheet feeder, place the printer in a vertical position, as shown.



3

---

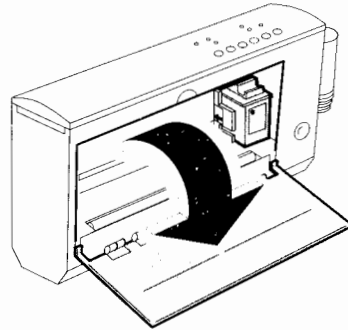
Connect the AC power module to the printer.

4

Press and hold the *Power* button until the Busy indicator lights to turn on the printer.

5

Open the access door on the side of the printer.

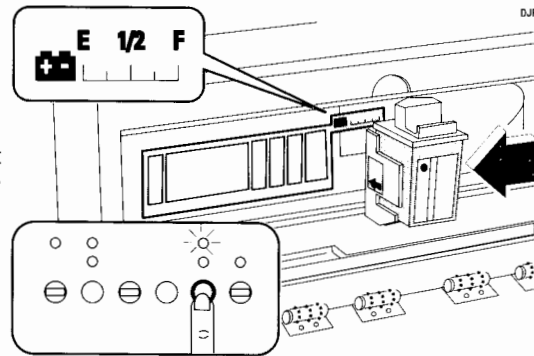


DJP332

6

Press and hold the *Settings* button to activate the configuration mode. Release the button when the Menu indicator starts blinking.

The configuration pointer on the print cartridge cradle moves to the battery gauge on the configuration menu.



DJP370

7

Press the *On line* button (*Group* button) repetitively until the pointer moves to the Charge setting in the Battery Control menu group.

8

Press the *LF/FF* button (*Select* button) to select the Charge function.

The configuration pointer moves back and forth slightly indicating that the Charge function has been selected. The Charge indicator lights after 15 seconds.

9

Press the *Settings* button (*Exit* button) to end the configuration mode.

NOTE

If you turn off the printer or disconnect the AC power module before the battery is fully charged, the quick charge process is cancelled.



## Checking the Battery Charge Level

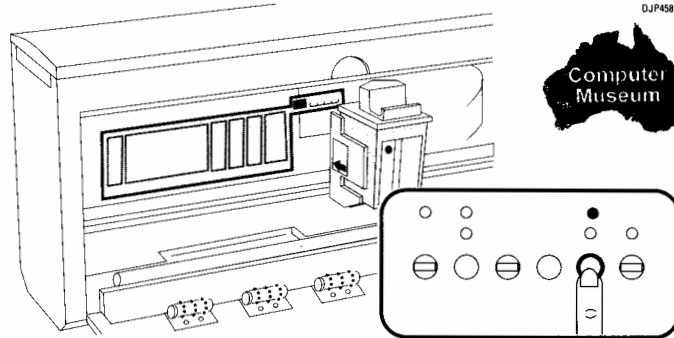
Before printing a long document in battery mode, check that the battery has a sufficient charge to print the entire document. For example, a battery charge level of “1/2” is sufficient to print approximately 50 pages.

NOTE

If you have installed a used battery or a new battery with a residual charge level, the battery gauge will not accurately indicate the charge level. It will indicate a “1/4” charge until the printer fully charges the battery. The charge indicator then turns off. After fully charging a battery, the printer monitors the battery's charge level as long as it remains in the printer. Leave the battery in the printer unless you will not be using the printer in battery mode for a long period of time.

### *Using the configuration menu*

When you activate the configuration mode, the print cartridge cradle moves to the battery gauge on the configuration menu and the configuration pointer points to the current charge level on the battery gauge.



After checking the charge level, exit the configuration mode without making any configuration changes. Refer to “Configuring the Printer” in chapter 8 for instructions about activating the configuration mode.

***Printing a printer self test***

When you print a printer self test, the current battery charge level prints on the first page of the self test as shown in the following example. Refer to “Step 7. Printing a Printer Self-Test” in chapter 1 for additional instructions.



DJPS10

---

## Maintaining Battery Performance

Nickel-cadmium batteries lose charge capacity if recharged multiple times without being fully discharged. If your battery is the primary power supply for your printer, completely discharge and fully recharge the battery once a month to maintain its performance.

To discharge the battery, follow these steps:

1. Turn the printer off.
2. Unplug the power module from the printer.
3. Turn on the printer.
4. Activate the configuration mode and select Drain mode (setting 2) in the Battery Control group of the configuration menu.

Refer to chapter 8, “Configuring the printer,” if you need help.

5. Exit the configuration mode.

The printer starts discharging the battery as soon as you exit the configuration mode.

The Power indicator remains on during the discharge cycle and the Charge indicator blinks. When the Power and Charge indicators go out, the discharge cycle is complete. The discharge cycle takes up to 4 hours to complete, depending on the battery’s initial charge level.

6. When the battery is fully discharged, connect the AC power module to the printer and turn the printer on.

The printer starts charging the battery.

### NOTE

You can print during the discharge cycle. Sleep mode is disabled during the discharge cycle.

Turning the printer off or connecting the AC power module stops the discharge cycle. You must restart the discharge cycle to fully discharge your battery.





## **Using the Optional Cut-Sheet Feeder**

The Cut-Sheet Feeder at a Glance .....	7-2
Setting Up the Cut-Sheet Feeder .....	7-4
Removing the Printer from the Cut-Sheet Feeder .....	7-8
Loading Paper in the Cut-sheet Feeder .....	7-9
Printing Labels.....	7-12
Loading Media Manually .....	7-13

## The Cut-Sheet Feeder at a Glance

The optional HP C3005A cut-sheet feeder automatically loads paper into your printer. It holds up to a 0.6 cm (1/4 inch) stack of paper. The number of sheets that you can place in the cut-sheet feeder depends on the paper's weight:

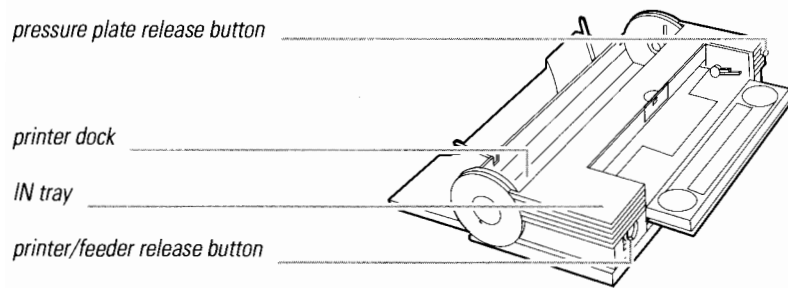
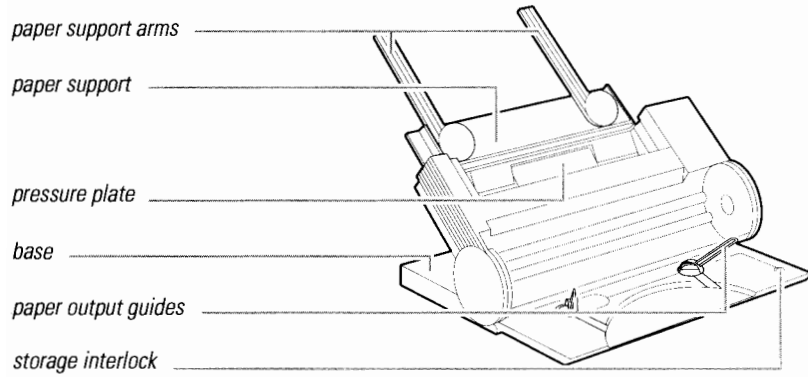
Paper Weight	Number of Sheets
24	32
20	40
16	50

The cut-sheet feeder is not included with your printer. It is available through your HP authorized printer dealer or Hewlett-Packard. Refer to chapter 14 for ordering information.

**CAUTION**

If your software lets you select manual or automatic sheet feeding, make sure your software is set for automatic sheet feeding whenever you are using the cut-sheet feeder. Otherwise, the printer may not function correctly with your software.

Before using the cut-sheet feeder for the first time,  
become familiar with its parts.



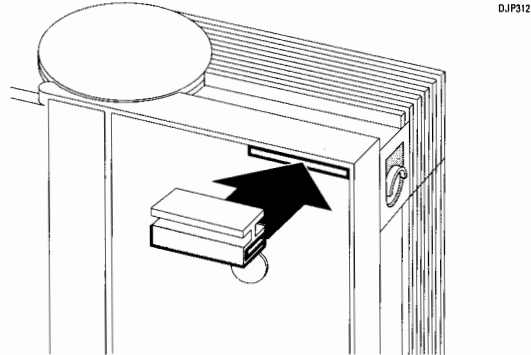
## Setting Up the Cut-Sheet Feeder

1

Set the cut-sheet feeder on a flat, level surface.

2

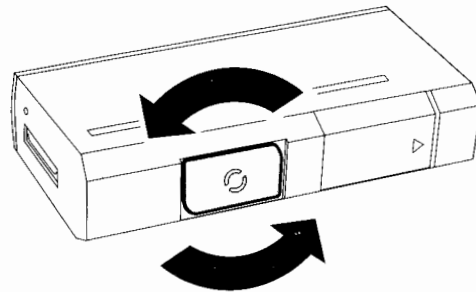
Attach the cable holder to the base of the cut-sheet feeder.



DJP312

3

Make sure the printer stand is in the closed position, as shown.

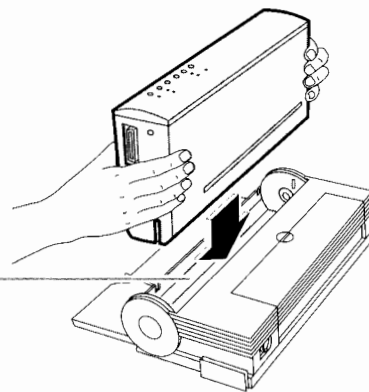


DJP320

4

Hold the printer with the control panel facing your and insert the printer into the printer dock.

printer dock



DJP380



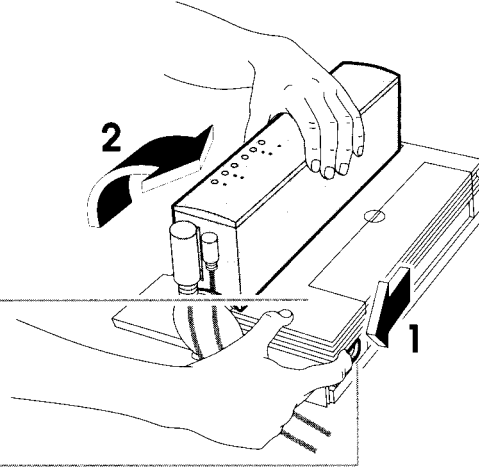
**5**

Slide the printer/feeder release button toward the side of the cut-sheet feeder and rotate the printer until it is perpendicular to the IN tray.

DJP381

IN tray

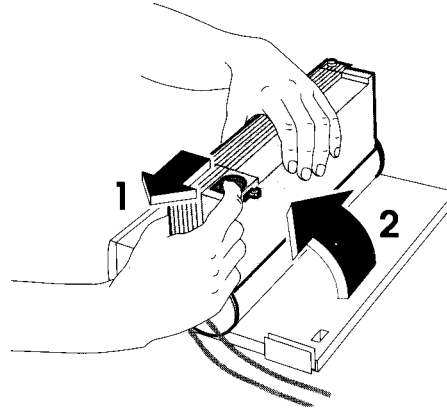
printer/feeder release button



**6**

Slide the printer/feeder release button toward the side of the cut-sheet feeder and rotate the IN tray to the vertical position.

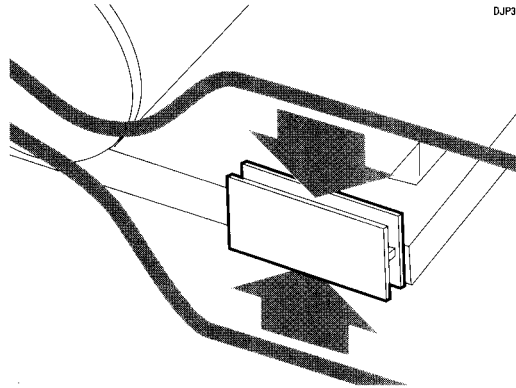
DJP382



**7**

Insert the printer interface cable and power module cable into the cable holder. Leave the cables loose enough to rotate the printer and IN tray.

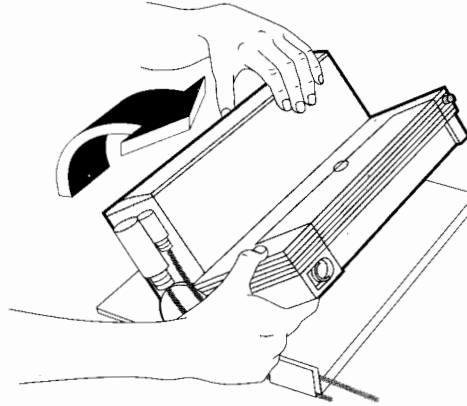
DJP313



Using the Optional Cut-Sheet Feeder  
Setting Up the Cut-Sheet Feeder

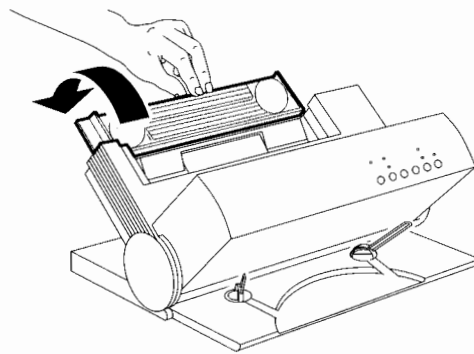
8

Rotate the printer and IN tray together to the printing position.



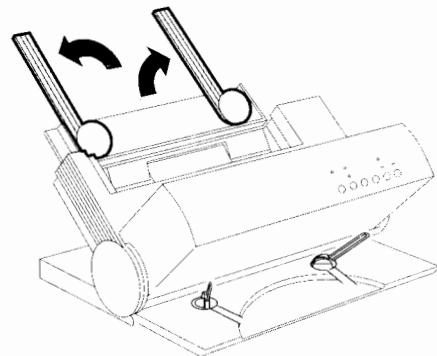
9

Fold out the paper support on the IN tray.



10

Fold out the paper support arms.

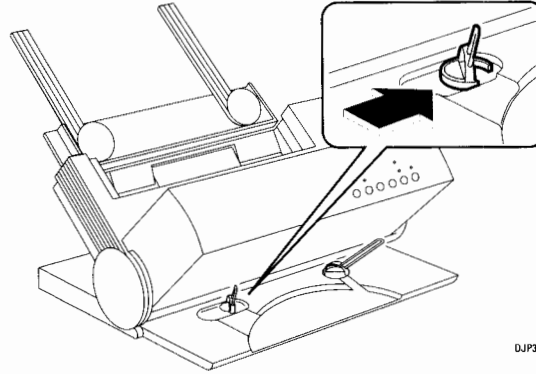


11

Adjust the left paper output guide to the size of your media.

For U.S. letter-, U.S. legal-, and A4-size media, slide the guide to the far-left position.

For U.S. executive size media, Slide the guide to the far-right position.



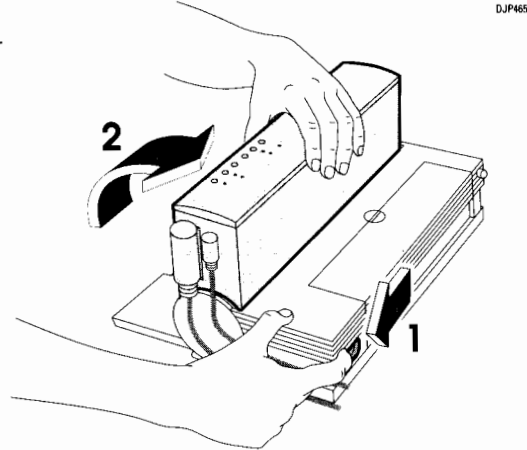
DJP396

When you rotate the printer and IN tray to the print position, the spring-loaded paper output guides automatically open up. The paper output guides support the paper as it comes out of the paper exit slot. This ensures that the current page is sufficiently dry before the next page drops on top of it.

## Removing the Printer from the Cut-Sheet Feeder

1

Slide the printer/feeder release button toward the side of the cut-sheet feeder and rotate the printer until it is vertical.

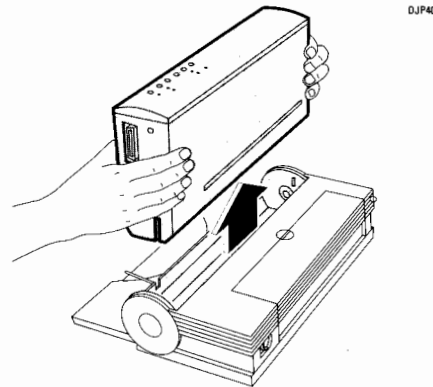


2

If the power module and printer interface cables are attached to the cable holder on the base of the cut-sheet feeder, either disconnect the cables from the printer or remove the cable holder from the base of the cut-sheet feeder.

3

Lift the printer from the cut-sheet feeder, open the printer stand, and place the printer on a flat, level surface.



---

## Loading Paper in the Cut-sheet Feeder

Loading instructions for the cut-sheet feeder are essentially the same for plain paper and labels. For best results, use only one media type in the cut-sheet feeder at a time. Always load media print side up. Refer to chapter 4, "Using Media in Your Printer," for information on selecting media.

**CAUTION**

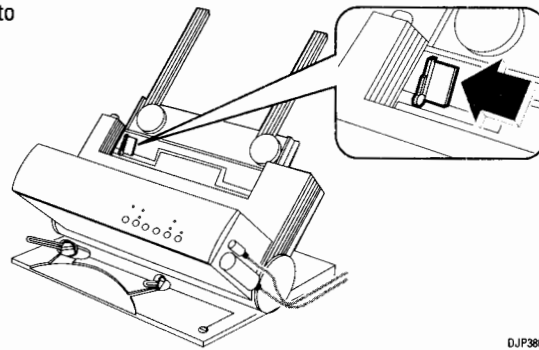
Make sure there are no objects blocking the printer's paper path and that there is no more 0.5 cm (about 1/4 inch) of paper in the cut-sheet feeder. Otherwise, the paper may jam.

**NOTE**

The cut-sheet feeder will not automatically load transparencies. You must load them manually. Refer to "Manually Loading Media" in this chapter for instructions.

**1**

Slide the paper width adjustment bar to the left.



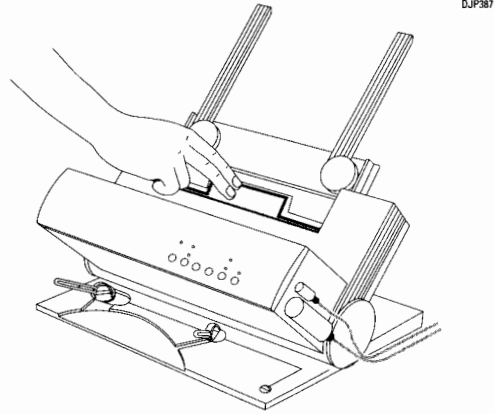
DJP386



Using the Optional Cut-Sheet Feeder  
Loading Paper in the Cut-sheet Feeder

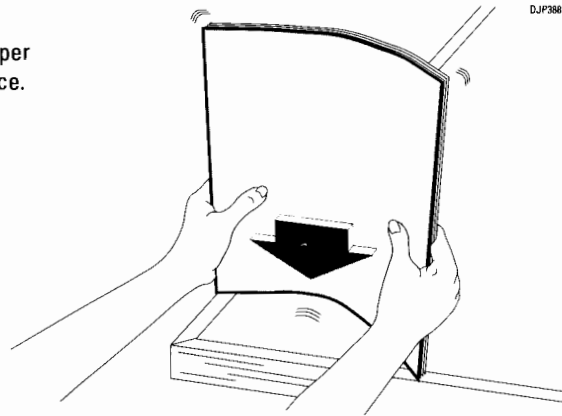
2

Press down on the paper pressure plate to lock it in the load position.



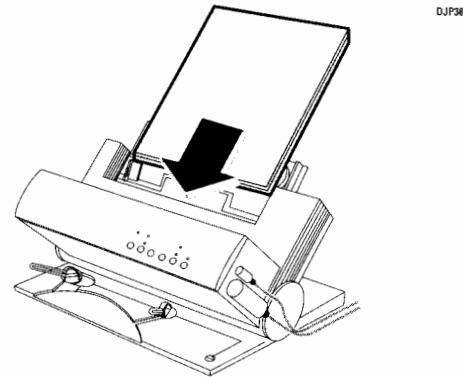
3

Align the edges of a 0.5 cm (approximately 1/4 inch) stack of paper by tapping the edges on a flat surface.



4

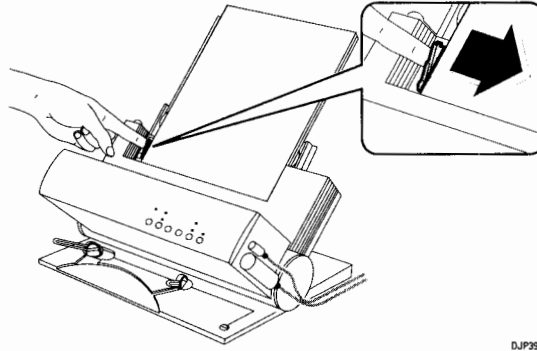
Align the right side of the stack of paper (print side up) with the right side of the IN tray and insert it into the IN tray.



5

Slide the paper width adjustment bar to the right until it is aligned with the edge of the paper.

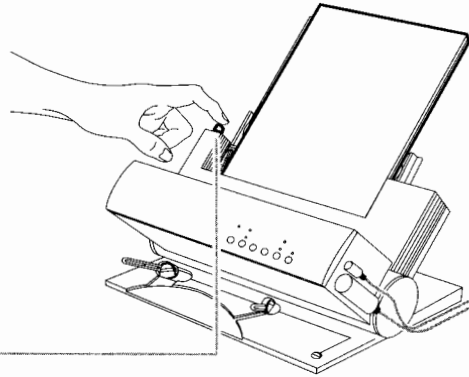
This ensures that the paper is properly aligned and will minimize skewed printing



DJP390

6

Press the gray pressure plate release button to hold the paper securely in place.



DJP395

*pressure plate release button*

**NOTE**

When the printer is out of paper, the Online indicator blinks. Reload the cut-sheet feeder and press the *On line* button to resume printing.

---

## Printing Labels

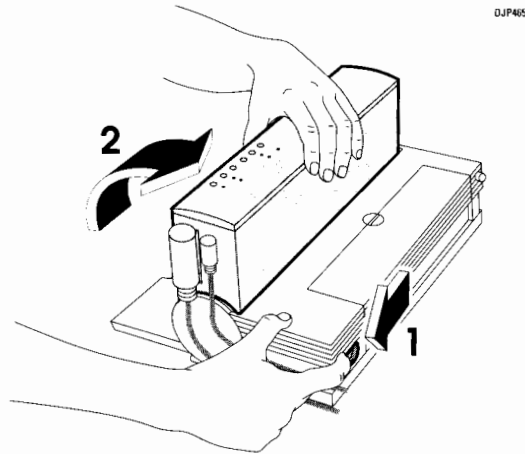
1

Perform steps 1 through 6 in , "Loading Paper in the Cut-sheet Feeder," using the labels recommended in chapter 4, "Using Media in Your Printer."

2

Slide the printer/feeder release button toward the side of the cut-sheet feeder and rotate the printer and cut-sheet feeder so that the printer is vertical.

This provides a straight paper path for the heavy label paper stock.





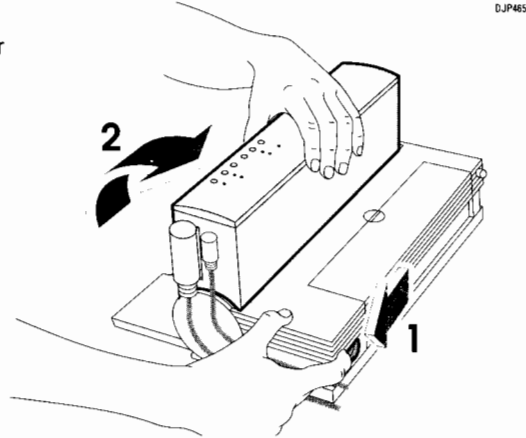
---

## Loading Media Manually

When you need to print only a few pages on a media that is different from what is in the cut-sheet feeder, you can manually load the media into the printer. You do not have to remove the existing media from the cut-sheet feeder. To manually load media into the printer, follow these steps:

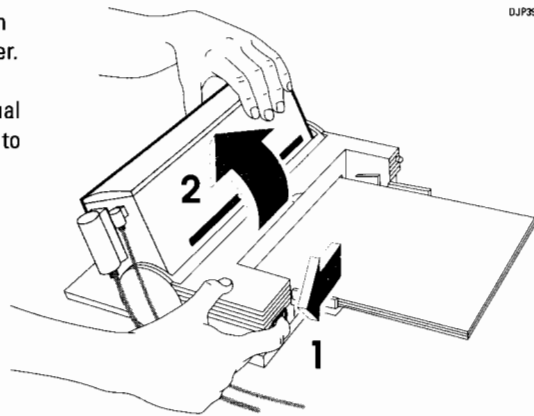
1

Slide the printer/feeder release button toward the side of the cut-sheet feeder and rotate the printer and cut-sheet feeder so that the printer is vertical.



2

Slide the printer/feeder release button toward the side of the cut-sheet feeder. While keeping the IN tray horizontal, rotate the printer until it is in the manual printing position (at a 45 degree angle to the base of the cut-sheet feeder).

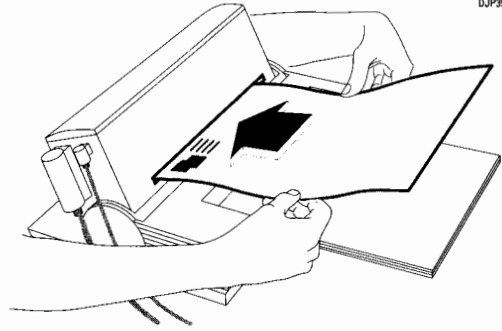


**3**

---

Align the edge of the sheet with the alignment mark next to the paper feed slot. Then insert the sheet of paper, print side up, into the paper-feed slot.

After approximately one second, the paper-feed rollers will grip the sheet and pull it into position in the printer. Release the sheet at this time.



**4**

---

Release the sheet when the paper-feed rollers grip it and pull it into the printer (after approximately 1 second).

When printing multiple-page documents, the Online indicator blinks when the printer is ready to print another sheet of paper. Repeat step 3 to load another sheet of paper.



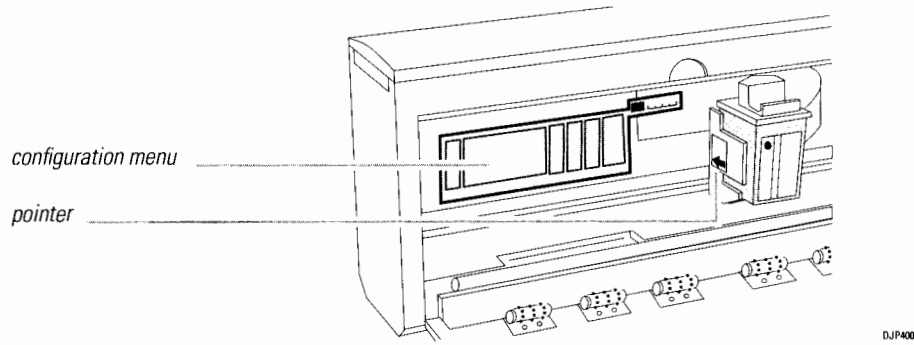
## **Configuring Your Printer**

The Configuration Pointer .....	8-2
The Configuration Menu .....	8-3
Configuration Mode Button Functions.....	8-6
Configuring the Printer .....	8-7
Checking the Current Configuration .....	8-9
Resetting to the Factory Default Configuration .....	8-10

---

## The Configuration Pointer

The HP DeskJet Portable printer uses a pointer to select printer configuration settings from a menu inside the print cartridge compartment. The pointer is located on the left side of the print cartridge cradle.



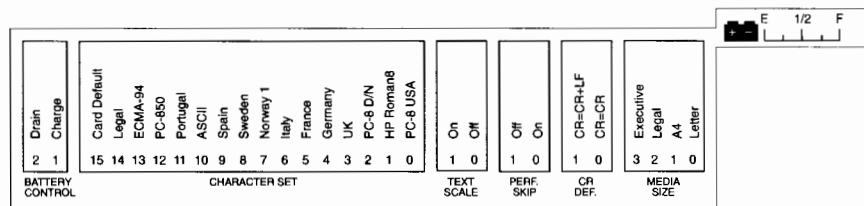
## The Configuration Menu

The configuration menu has six groups of printer settings.

- Battery Control
- Character Set
- Text Scale
- Perf. Skip (perforation skip)
- CR Def. (carriage return definition)
- Media Size

Zero (0) is the default setting in each of the printer settings groups except Battery Control, which does not have a default setting.

The following illustration shows the configuration menu and the printer group settings.



### *Battery control group*

Use the Battery Control group to select either the drain mode (completely discharge the battery) or the charge mode (quick charge the battery). The printer starts draining or charging the battery when you exit the configuration mode.

Setting	Description
1	Quick-charge mode
2	Drain mode

### ***Character set group***

Use the Character Set group to select any of the following character sets as the default character set. Refer to chapter 13, “Technical Information,” for information about different types of character sets.

<b>Setting</b>	<b>Description</b>
0	PC-8 USA
1	HP Roman 8
2	PC-8 D/N
3	United Kingdom (ISO 04)
4	Germany (ISO 04)
5	France (ISO 69)
6	Italy (ISO 15)
7	Norway 1
8	Sweden (ISO 11) Names
9	Spain (ISO 17)
10	ASCII
11	Portugal (ISO 16)
12	PC-850
13	ECMA-94 Latin 1
14	HP Legal
15	Card Default*

\*Setting 15, “Card Default” is reserved for future product use.

### ***Text scale group***

Use the Text Scale group to select the vertical scaling mode for portrait-oriented text. Refer to chapter 11, “Page Setup,” for information about text scaling.

<b>Setting</b>	<b>Description</b>
0	Off (prints 63 lines per page, U.S. Letter size)
1	On (prints 66 lines per page, U.S. Letter size)

### ***Perforation skip group***

Use the Perf. Skip group to select the top margin of a page. Refer to chapter 11, "Page Setup," for information about perforation skip.

<b>Setting</b>	<b>Description</b>
0	On (top margin = 1/2 inch (13 mm))
1	Off (top margin = 0)

### ***Carriage return definition group***

Use the Cr Def. group to define the interpretation of the carriage return control character.

<b>Setting</b>	<b>Description</b>
0	Carriage Return = Carriage Return (CR) only
1	Carriage Return = Carriage Return (CR) and Line Feed (LF)

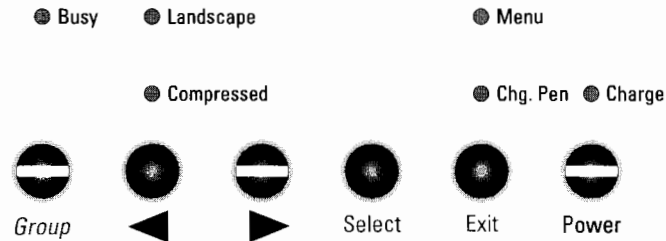
### ***Media size group***

Use the Media Size group to select the size of the media (paper, transparencies, or labels) you are using.

<b>Setting</b>	<b>Description</b>
0	U.S. Letter (8.5 in by 11 in)
1	A4 (210 mm by 297 mm)
2	U.S. Legal (8.5 in by 14 in)
3	U.S. Executive (7.25 in by 10.5 in)

## Configuration Mode Button Functions

In the configuration mode, the control panel button functions are redefined as follows.



DJPA02

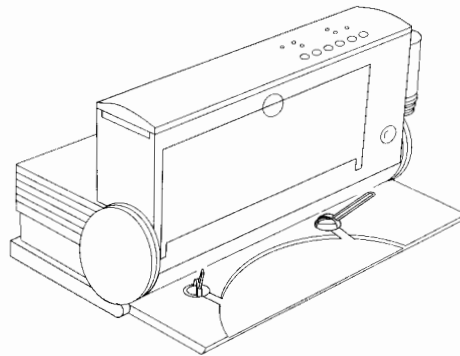
Button	Function
<i>Group</i>	Press the <i>Group</i> button to move the configuration pointer to the current setting in the next menu group.
<i>Left and Right Pointers</i>	Press the left ( ◀ ) or right ( ▶ ) pointer button to move the pointer left or right to the next setting in the menu group.
<i>Select</i>	Press the <i>Select</i> button to select the setting pointed to by the pointer.
<i>Exit</i>	Press the <i>Exit</i> button to exit the configuration mode and return to normal operation.
<i>Power</i>	The <i>Power</i> button function is not changed in configuration mode.



## Configuring the Printer

1

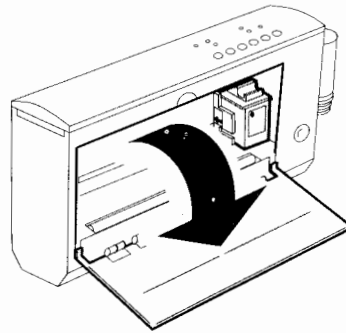
If the printer is installed in the cut-sheet feeder, place the printer in a vertical position as shown.



2

Open the access door on the side of the printer.

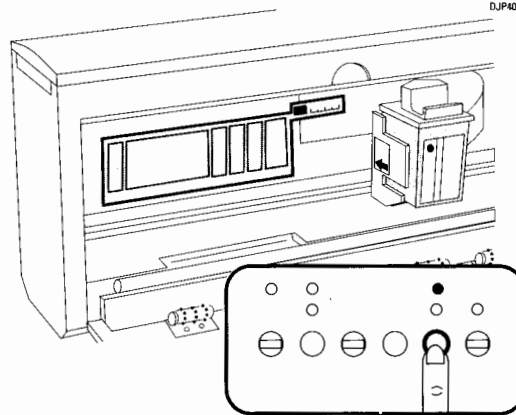
If the printer is installed in the cut-sheet feeder, gently press on the access door to open it fully.



3

Press and hold the *Settings* button to enter the configuration mode.

Release the *Settings* button when the Menu indicator starts to blink and the pointer on the print cartridge cradle moves to the battery level gauge (if a battery is installed) or to the Media Size group (if no battery is installed).



---

#### 4

Press the *Group* button repetitively until the pointer moves to the menu group you want to change.

Each time you press the *Group* button, the pointer moves to the next menu group and points to the current setting in that group. If the pointer is in the last menu group when you press the *Group* button, it returns to the first menu group.

The pointer goes to the Battery Control group only if a battery pack is installed in the printer. If no battery pack is installed, the pointer skips this group.

---

#### 5

Press the left ( ◀ ) or right ( ▶ ) pointer button to move the pointer to the desired setting within the menu group.

---

#### 6

Press the *Select* button to select the setting.

The print cartridge moves back and forth slightly indicating that you have successfully selected a setting.

---

#### 7

Repeat steps 4 through 6 until you have selected the group settings you want to change.

---

#### 8

Press the *Exit* button to exit the printer configuration mode.

The new settings are the default settings until you change them.

#### NOTE

In the Battery Control group, you can only select the setting that is valid for the power mode you are using. If you are using the power module, the Charge setting is the only setting you can select. If you are using a battery, the Drain setting is the only setting you can select. The left ( ◀ ) and right ( ▶ ) pointer buttons are disabled in the Battery Control group.

---

## Checking the Current Configuration

There are two ways to check the current configuration of your printer:

- Print a printer self test
- Enter the configuration mode and check the configuration menu settings.

### *Printing a printer self test*

Refer to “Step 7. Printing a Printer Self Test” in chapter 1 for instructions about printing a print self test.

The current configuration is printed on the first page of the printer self test as shown in the following example. The self test prints five lines of configuration information. The Battery Control group status is not printed on the self test.

```

ID E
-----
1.152  92/06/19

MEDIA           : [0]  US Letter
CR DEFINITION  : [0]  CR = CR
PERF. SKIP     : [0]  On
TEXT SCALE     : [0]  Off
CHARACTER SET  : [0]  PC-8 USA
```

### *Checking the configuration menu settings*

You can verify the current configuration by entering the configuration mode and cycling through the menu groups. Each time you press the *Group* button to move the pointer to a menu group, it stops at the current setting. Exiting the configuration mode without selecting any new settings leaves the configuration unchanged.

## Resetting to the Factory Default Configuration

1. Make sure printer power is turned off.
2. Press and hold the *On line* and *Settings* buttons.
3. While continuing to hold the *On line* and *Settings* buttons, press and hold the *Power* button.
4. Release all three buttons when the Busy indicator lights.

The factory default configuration settings are shown in the following table.

<b>Menu Group</b>	<b>Default Setting</b>	<b>Description</b>
BATTERY CONTROL	–	No Default
CHARACTER SET	0	PC-8 USA
TEXT SCALE	0	Off (63 Lines/Page)
PERF. SKIP	0	On
CR DEF.	0	CR Only
MEDIA SIZE	0	U.S. Letter

---

## **PART 3**

- 9 Troubleshooting
- 10 Caring for Your Printer

 **Troubleshooting and Maintenance**





## Troubleshooting

No Response from the Printer .....	9-2
Control Panel Error Light Indications .....	9-4
Print Quality Problems.....	9-7
Printing Problems.....	9-9
Media Handling Problems .....	9-10
Battery Problems.....	9-12
Clearing Paper Jams.....	9-13
Performing the Printer Self Test .....	9-16
Solving Print Cartridge Problems.....	9-20
Customer Support .....	9-21

## No Response from the Printer

Symptom	Cause	Solution
<i>Nothing happens when the Power button is pressed.</i>	The printer is not properly connected to an electrical power source.	Make sure the power module plug is connected firmly to the printer's power socket, and that the other end of the power module cord is connected to an AC outlet.  If you use a power strip, make sure it is plugged into an AC outlet, and that the power strip is on.  If you are using battery power, make sure the battery is correctly installed and charged.
	The <i>Power</i> button was not held down long enough.	Make sure that you hold the <i>Power</i> button down until the Busy indicator turns on (approximately 1 second).
<i>Printer is on, nothing prints.</i>	The printer is not ready for printing.	Make sure the Online indicator is on. If the Online indicator is off, press the <i>On line</i> button.
	The interface cable is not connected properly to the printer or computer.	Make sure that the interface cable is connected to the interface port on your printer and to the correct interface port on your computer.
	The printer interface cable is too long.	Use the HP 3061A printer interface cable supplied with your printer.  Make sure the interface cable is connected securely to both the printer and the computer. Printing will not occur if the connection is loose.
	Communication was not established between the computer and printer.	Refer to "Establishing communication between the printer and the PC" in chapter 1.  Sent the correct Mode command from DOS.  Make sure that output is redirected to the Centronics parallel port (usually LPT1 or LPT2).
Your software is not setup to print with your printer.	Refer to your software documentation for software setup steps.	

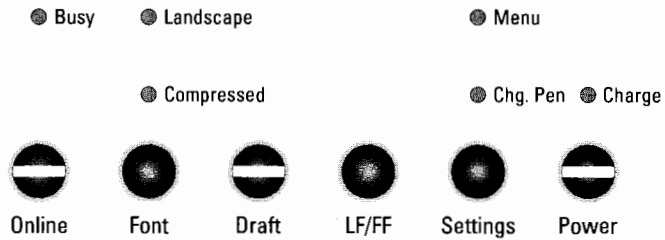


<b>Symptom</b>	<b>Cause</b>	<b>Solution</b>
<i>Printer is on, nothing prints.</i>	The tape covering the ink nozzles of the print cartridge was not removed.	Remove the print cartridge from the printer and remove the transparent tape covering the ink nozzles. Refer to "Replacing the Print Cartridge" in chapter 5 for instructions.
	The print cartridge is not installed properly.	Remove and reinstall the print cartridge. Refer to "Replacing the Print Cartridge" in chapter 5 for instructions.
	The print cartridge is out of ink.	Replace the print cartridge with a new one. Refer to chapter 5, "Using the Print Cartridge" for instructions about cleaning and replacing the print cartridge.
	The printer is out of paper.	Load paper.



## Control Panel Error Light Indications

This section identifies printer control panel error light indications and provides solutions for each error.



DJF340

Symptom	Cause	Solution
<i>Online indicator is blinking.</i>	The printer is out of media.	<p>Insert media into the paper-feed slot.</p> <p>If you are using the cut-sheet feeder, load media into the cut-sheet feeder and then press the <i>On line</i> button to continue printing.</p> <p>If you are using the cut-sheet feeder and media is already loaded, make sure that the paper is loaded properly and that the pressure plate is released. Then press the <i>On line</i> button to continue printing.</p>
<i>Busy and Online indicators are blinking.</i>	There is a paper jam.	Refer to "Clearing Paper Jams" in this chapter.
<i>Busy indicator is blinking and the printer won't print.</i>	The printer is waiting to print.	Press the <i>LF/FF</i> button.
<i>Power indicator is blinking.</i>	The battery level is low.	Recharge the battery.

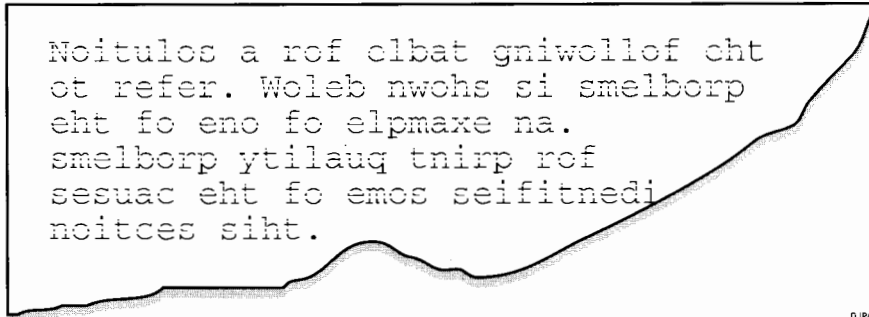


Troubleshooting  
Control Panel Error Light Indications

<b>Symptom</b>	<b>Cause</b>	<b>Solution</b>
<i>Change Pen indicator is blinking, print carriage has moved to the center of the printer.</i>	You have loaded an incompatible print cartridge	Make sure you have installed an HP 51608A black print cartridge.
<i>Charge indicator is blinking alternately with all other indicators.</i>	The battery could not be recharged.	The battery may need to be fully discharged before recharging. Discharge the battery completely and recharge it again.  If the battery still does not charge, replace it.  If the replacement battery will not charge, contact your nearest HP Sales or Service office or an HP authorized dealer.
<i>Power indicator is blinking alternately with all other indicators.</i>	The battery could not be drained (discharged).	Turn the printer off and on, then discharge the battery again.  If the battery still does not discharge, contact your nearest HP Sales or Service office or an HP authorized dealer.
<i>Busy, Landscape, Online, or Menu indicator is blinking alternately with all other control panel indicators.</i>  <i>All printer indicators blink simultaneously.</i>	An internal printer error has occurred.	Turn the printer off and on.  If the indicators continue to blink, the printer RAM or font ROM may be defective. Contact your nearest HP Sales or Service office or an HP authorized dealer.

## Print Quality Problems

The following table identifies print quality problems and solutions. The following is an example of a print quality problem.



DJ460

Symptom	Cause	Solution
<i>Characters, dots or lines are incomplete or missing from printouts. (See example)</i>	The print cartridge needs to be re-installed.	Remove and reinstall the print cartridge.
	The print cartridge ink nozzles are clogged.	Clean the print cartridge as described in "Cleaning the print cartridge" in chapter 5. Refer to "Print Cartridge Problems" in this chapter.
	The electrical contacts on the print cartridge or the print cartridge cradle are dirty.	Clean the electrical contacts on the print cartridge and the print cartridge cradle as described in "Cleaning the print cartridge electrical contacts" in chapter 5.
<i>Inconsistent print density.</i>	The print cartridge needs to be cleaned.	Clean the print cartridge. Refer to "Cleaning the print cartridge" in chapter 5.
	The paper does not meet recommendations.	Try printing on a different paper type.
<i>Inconsistent print density.</i>	The print side of the media was not used for printing.	Make sure you are using the print side of the media. The print side is indicated on special paper and transparencies. If you use plain paper, turn the paper over and try the other side.

<b>Symptom</b>	<b>Cause</b>	<b>Solution</b>
<i>Fading characters.</i>	The print cartridge is almost empty.	Clean the print cartridge as described in "Cleaning the print cartridge" in chapter 5. If print quality does not improve, replace the print cartridge with a new one.
<i>Printing is faint or fuzzy.</i>	The wrong print quality mode was selected.	Select letter quality mode.
	The print side of the media was not used for printing.	Make sure you are inserting the media print side up. The print side is indicated on transparencies. If you are using plain paper, turn the paper over and print on the other side.
	Media quality does not meet recommendations.	Refer to chapter 4, "Using Media in Your Printer" for recommendations. If you are using plain copier paper, use a different type of paper.


## Printing Problems

Symptom	Cause	Solution
<i>Printing is skewed or slanted.</i>	The media is loading incorrectly.	Refer to "Media Handling Problems" in this chapter.
<i>Printer seems to be printing, but nothing is printed.</i>	Tape over the ink nozzles (bottom of print cartridge) was not removed.	Remove the print cartridge and remove transparent tape covering the ink nozzles. Then re-install the print cartridge.
	The print cartridge wasn't snapped into place.	Reinstall the print cartridge and make sure to push the green arrow toward the cradle until the print cartridge snaps into place.
	The print cartridge is empty.	Replace the print cartridge.
<i>Printout is incorrect.</i>	The appropriate printer driver was not selected in your software package.	Check the printer driver selected in your software. Printing problems occur when the wrong printer driver is selected.
<i>Selected internal fonts are not printing.</i>	The font was not selected correctly in your software.	Check the manual for your software package for information on how to select fonts. Software font settings override control panel font selections.
<i>Selected optional fonts are not printing.</i>	The font was not installed.	If you use scalable fonts, make sure the fonts were installed correctly in your software application.
	The font was not selected correctly in your software.	Check your software manual for information about selecting fonts. Software settings override control panel font selections.

## Media Handling Problems

Symptom	Cause	Solution
<i>Media does not eject from the printer.</i>	The media needs to be manually ejected.	Press and hold the <i>LF/FF</i> button.
	The computer was turned off during printing.	Reset the printer by turning it off and on. Then turn the computer on. <b>Data waiting to print is lost when the printer is turned off.</b>
<i>Paper does not load into the printer.</i>	The paper is not inserted properly into the printer.	Wait for the paper-feed roller motor to stop before you insert paper.  Insert the paper as far as it will go in the paper-feed slot so that it can be gripped by the paper-feed rollers. Hold the paper in position until the printer grips it and starts pulling it inside the printer.  Make sure the edge of the paper is aligned with the alignment mark next to the paper input slot.  Refer to "Loading Media in the Printer" in chapter 4.
	Accumulated paper dust on the paper-feed rollers is preventing loading.	Open the access door and wipe the paper feed rollers with a soft lint free cloth. Refer to chapter 10, "Caring for Your Printer," for cleaning instructions.
<i>Media loading is skewed or slanted.</i>	Media is not inserted squarely in the printer.	Make sure you have inserted the media squarely into the printer paper-feed slot.  Make sure the edge of the paper is aligned against the alignment mark next to the paper input slot.
	Accumulated dust on the printer's paper feed rollers is preventing proper loading.	Open the access door and wipe the paper-feed rollers with a soft lint free cloth. Refer to chapter 10, "Caring for Your Printer," for cleaning instructions  Make sure that preprinted forms are printed squarely on the paper  Contact your nearest HP Sales or Service office or an HP authorized dealer if the problem persists.



<b>Symptom</b>	<b>Cause</b>	<b>Solution</b>
<i>Printer loads multiple sheets of media from the cut-sheet feeder.</i>	<p>Different paper types and weights are loaded in the cut-sheet feeder.</p> <p>More than 0.6 cm (1/4 inch) of media is loaded in the cut-sheet feeder.</p>	<p>Remove paper from the cut-sheet feeder and use one type of paper. Refer to chapter 4, "Using Media in Your Printer" to check that the paper meets recommendations.</p> <p>Remove a few sheets of media from the cut-sheet feeder.</p>
<i>Transparencies do not load into the printer from the cut-sheet feeder.</i>	<p>The cut-sheet feeder cannot automatically load transparencies.</p>	<p>Load transparencies manually.</p> 
<i>Paper does not load into the printer from the cut-sheet feeder.</i>	<p>The paper is not properly loaded into the cut-sheet feeder.</p> <p>The printer and cut-sheet feeder are in the manual loading position.</p>	<p>Make sure the media is loaded properly. Refer to "Loading Media in the Cut-Sheet Feeder" in chapter 7.</p> <p>Rotate the printer to the automatic loading position for the cut-sheet feeder.</p>
<i>Media loading from the cut-sheet feeder is skewed or slanted.</i>	<p>More than one media type is loaded in the cut-sheet feeder.</p> <p>Media is not properly loaded in the cut-sheet feeder.</p> <p>More than 0.6 cm (1/4 inch) stack of media is loaded in the cut-sheet feeder.</p>	<p>Remove the other media types.</p> <p>Reload the media and make sure the right side of the media touches the right side of the IN tray.</p> <p>Slide the paper alignment bar against the paper and secure the paper in the feeder by pressing the pressure plate release button.</p> <p>Remove some of the media loaded in the cut-sheet feeder.</p>
<i>Media will not manually feed from the cut-sheet feeder.</i>	<p>The printer and feeder are not in the manual feed position.</p>	<p>Move the printer and cut-sheet feeder to the manual feeding position. Refer to "Loading Media Manually" in chapter 7.</p>

## Battery Problems

Symptom	Cause	Solution
<i>Fully charged battery prints fewer pages than expected.</i>	<p>The battery has acquired memory effect.</p> <p>The printout is dark, with heavy amounts of ink on the pages.</p> <p>Battery has not been used for a long period of time. Nickel-cadmium batteries lose their charge slowly when not used.</p>	<p>Drain the battery and recharge it. For batteries with severe memory effect, you may have to drain and recharge the battery several times. Refer to chapter 6, "Using Battery Power," for instructions.</p> <p>If the problem persists, replace the battery.</p> <p>This is normal. The printer prints fewer pages with heavy graphics than pages with only text on a battery charge.</p> <p>Charge the battery fully before using the printer in battery mode.</p> <p>You can prevent this problem by leaving the printer on in the AC power mode. The printer maintains the battery at a full charge.</p>
<i>Battery does not charge or the charge indicator does not come on.</i>	<p>The wrong battery is installed in the printer.</p> <p>The battery is not properly installed in the printer.</p> <p>The battery is fully charged.</p> <p>The battery electrical contacts are dirty.</p> <p>The battery is hot.</p>	<p>Make sure that you have installed one of the recommended batteries listed in chapter 6.</p> <p>Make sure that the battery is properly seated in the battery compartment.</p> <p>Check the battery charge level. If the battery is fully charged, the printer will not overcharge it.</p> <p>Clean the battery contacts.</p> <p>Make sure the ambient temperature is in the recommended range of 10°C (50°F) to 35°C (95°F) when charging the battery.</p>
<i>Charging takes longer than stated in the manual.</i>	<p>The printer was used for printing while being charged.</p>	<p>This is normal. Charging takes longer if you print during the charging period.</p>

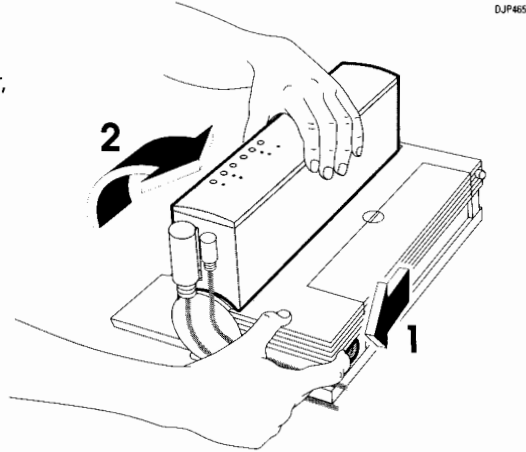
---

## Clearing Paper Jams

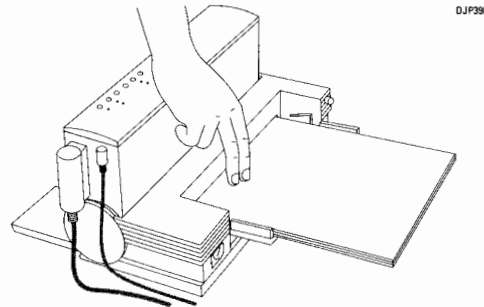
Paper jams are indicated by blinking Busy and Online indicators. To clear a paper jam, follow these steps:

**1** \_\_\_\_\_  
Turn off the printer.

**2** \_\_\_\_\_  
If you are using the cut-sheet feeder, slide the printer/feeder release button toward the side of the cut-sheet feeder, then rotate the printer and IN tray until the printer is vertical.



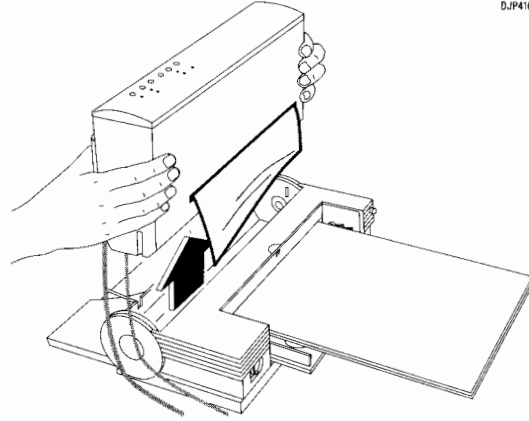
**3** \_\_\_\_\_  
Press down on the pressure plate to release the paper from the cut-sheet feeder.



4

Remove the printer from the cut-sheet feeder.

The paper should slide out of the cut-sheet feeder with the printer



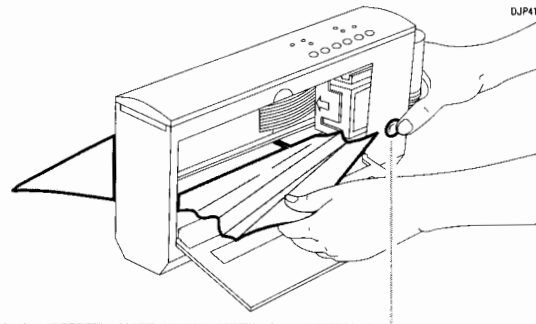
5

Place the printer on a flat surface and open the access door.

**Be careful not to touch the wheels on the hinge of the door.**

6

Pull the sheet of paper toward you while pressing the paper release button. Make sure all paper is removed from the printer.



*paper release button*

7

Turn on the printer. If the Busy and Online indicators blink, make sure all paper was removed from the printer's paper path.

8

If you are using the cut-sheet feeder, reinstall the printer in the cut-sheet feeder and rotate the printer and IN tray to the normal printing position.

Make sure the power cable and printer interface cable are firmly attached to the printer.

To prevent paper jams, use the following tips:

- Make sure nothing blocks the printer's paper path.
- Make sure the IN tray contains no more than a 0.6 cm ( $\frac{1}{4}$  inch) stack of media.
- Load paper correctly. Refer to chapters 4 and 7 for instructions on loading paper.

## Performing the Printer Self Test

The printer self test checks the printer's electronic circuitry and prints a self test pattern. A reduced example of a self test is shown on the following page.

The printer self test provides the following information:

- An alphabetic character identifying the print cartridge.
- A diagonal test pattern that identifies any ink nozzles that are not printing. If the diagonal line has a gap, one or more nozzles may be blocked and you may need to clean the print cartridge.
- The printer firmware version and date. You may need to provide this information when requesting service or support.
- The current printer configuration. The configuration information includes the configuration menu group name, the numerical setting, and a written description.
- A battery gauge indicating the charge level of the printer battery. This prints only if a battery is installed in the printer.
- Prints the printer fonts.



### *Printing a printer self test*

**1** \_\_\_\_\_

If the printer is on, press and hold the *Power* button for approximately 1 second to turn it off.

**2** \_\_\_\_\_

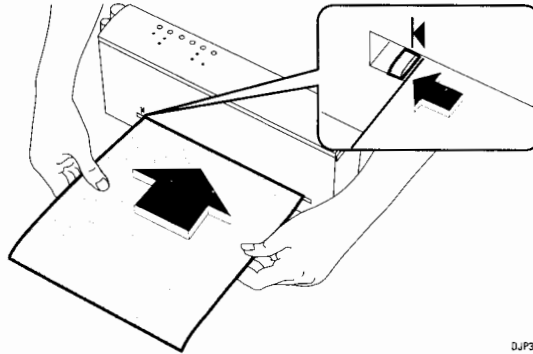
Press and hold the *Font* button on the printer control panel. Then press and hold the *Power* button. Release both buttons after the Busy indicator lights.

**3** \_\_\_\_\_

Align the left edge of a sheet of paper, print side up, with the alignment mark next to the paper feed slot.

Then insert the sheet into the paper-feed slot until it stops.

After approximately 1 second, the paper-feed rollers grip the sheet and pull it into the printer. Release the sheet at this time.



DJ P335

**4** \_\_\_\_\_

The Online indicator blinks when the printer is ready to print another page. Repeat step 3 for the remaining pages of the printer self test.

If the test pattern does not resemble the example of the printer self test, refer to "Solving printer self test problems" in this chapter.



### ***Solving printer self test problems***

If the printer does not print a self test pattern, try the following:

- Make sure that the print cartridge is installed correctly.
- If you are using the cut-sheet feeder, make sure that paper is loaded in the IN tray.
- Check for a paper jam in the printer. Refer to “Clearing Paper Jams” in this chapter.
- Disconnect the printer from your computer and repeat the printer self test.
- If the indicator lights on the printer control panel blink alternately, refer to “Control Panel Error Indications” in this chapter.

If you are still unable to print the printer self test, contact your nearest HP Sales or Service office or an HP authorized dealer. Refer to “Customer Support” in this chapter for more information.

## Solving Print Cartridge Problems

If you have print quality problems or if the print cartridge does not return to the home position when you press the *Settings* button, you may need to clean the print cartridge electrical contacts.

### *Cleaning the print cartridge*

To restore print quality when dots or lines are missing from your printout, follow the instructions in “Cleaning the print cartridge” in chapter 5.

#### CAUTION

Do not clean the print cartridge unnecessarily. This shortens the print cartridge life.

### *Cleaning the print cartridge contacts*

You should clean the print cartridge contacts if the print cartridge cradle does not move to the home position when you press the *Settings* button. Refer to “Cleaning the print cartridge contacts” in chapter 5.

If the print cartridge cradle still does not move to the home position, replace the print cartridge. Refer to “Replacing the Print Cartridge” in chapter 5.

### *Removing dried ink from print cartridges*

Exposing a print cartridge to air for an extended period of time causes a layer of dried ink to form a crust on the nose of the print cartridge. If this occurs, do not use the print cartridge in your printer.

Refer to “Removing dried ink from the print cartridge” in chapter 5.

---

## Customer Support

The information in this chapter suggests solutions to common problems. If your printer is not operating properly, and the suggestions do not solve your problem, contact your nearest HP Sales and Support Office.



### ***Returning Your Printer for Service***

If you contact your nearest HP Sales and Support Office and determine that your printer requires service, use the information below to prepare your printer for service.

If you need to ship your printer, be sure it is packed in a protective carton. If needed, you may obtain packaging materials and a shipping carton for your printer from Hewlett-Packard.

To help ensure effective servicing of your printer, follow these guidelines:

- 1.** Follow the instructions in this user's guide to ensure the problem is in the printer and not the result of an interface connection error or a problem with your computer or software. If possible, identify the defective area or function.
- 2.** Include your name, address, and a phone number where you may be reached during the day.
- 3.** Include the following items when you return your printer for service:
  - a.** A description of the exact configuration at the time of the malfunction, including interface cable, computer and peripherals in use, and software application in use.
  - b.** A brief description of the symptoms.
  - c.** Hardcopy printed from the printer to help illustrate your problem.
  - d.** The serial number and product number of the printer.
  - e.** A copy of the sales slip or other proof of purchase to establish warranty coverage period.

Include the power module. Do not include any other operating accessories unless the problem relates to an accessory.

---

# 10



## **Caring for Your Printer**

Maintaining Your Printer .....10-2  
Preparing Your Printer for Transporting and Storing.10-4

---

## Maintaining Your Printer

Your HP DeskJet Portable printer does not need much maintenance to keep it in top working condition. Perform the following maintenance procedures as necessary.

### *Cleaning the platen and pinch plate*

NOTE

Perform this procedure only if dust or ink buildup affects your printer's performance.

Paper dust and ink may accumulate on the platen and pinch plate. To clean the platen and pinch plate, follow these steps:

1

Turn off the printer using the *Power* button. This locks the print cartridge cradle in the home position.

2

Disconnect the power module cable from the printer.

3

Open the access door on the side of the printer.

4

Use a clean, lint-free cloth, lightly moistened with water, to gently wipe the pinch plate and platen. Use outward strokes.

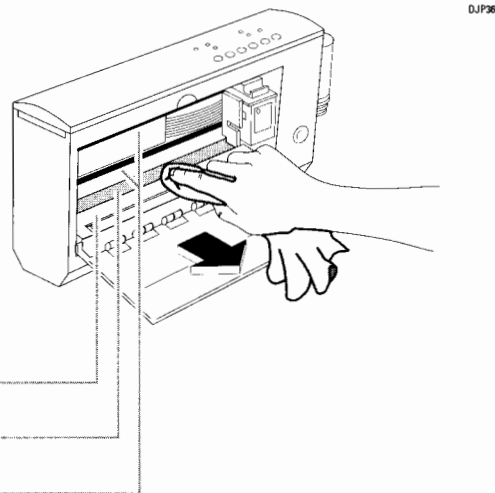
**Do not wipe the print cartridge carriage rods.** Wiping removes the lubricant applied to the carriage rods.

Make sure that all ink and paper dust are removed.

*platen*

*pinch plate*

*print cartridge carriage rods*



CAUTION

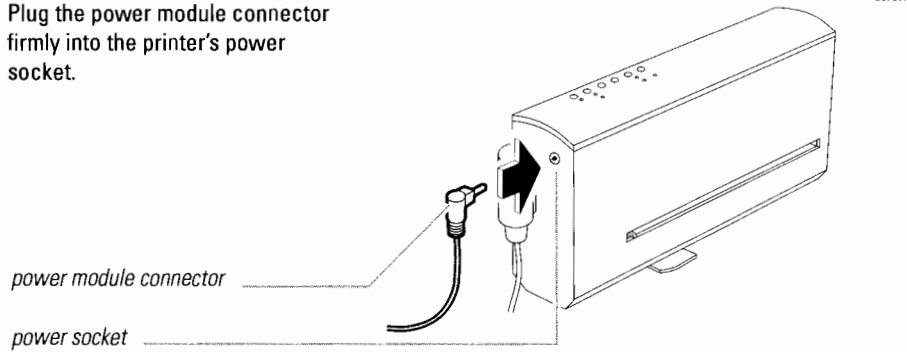
Do not touch the starwheels on the bottom of the access door.

5

Allow time for the platen to dry, then close the access door.

6

Plug the power module connector  
firmly into the printer's power  
socket.



7

Print a page from a document or print a printer self test to verify that the print quality is acceptable.

If the print quality is not acceptable, verify that the platen and pinch plate are thoroughly clean. If necessary, repeat the cleaning procedure.

***Cleaning the exterior of the printer***

Use a soft clean cloth moistened with water to wipe dust, smudges, and stains off the printer's case.

---

## Preparing Your Printer for Transporting and Storing

Before storing or transporting your printer, use the following steps to prepare it:

**1**

---

Press and hold the Power button to turn off the printer before you disconnect the AC power module.

This ensures that the print cartridge is returned to the home position and locked in place.

**2**

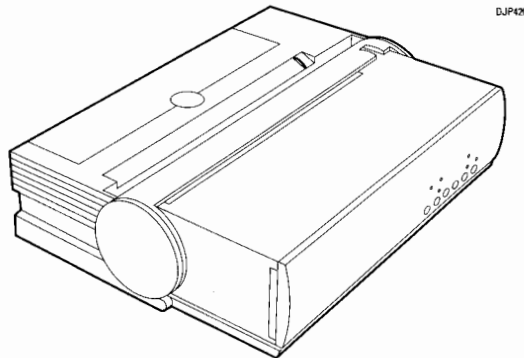
---

Disconnect the interface and power cables.

**3**

---

If you have the cut-sheet feeder, insert the printer into it and rotate the printer and cut-sheet feeder to the closed position, as shown.



**4**

---

Put the printer and cut-sheet feeder, the power module, and the interface cable into a clean bag or box that is free of small objects such as paper clips and coins.

A carrying case is available for your HP DeskJet Portable printer. Refer to chapter 14 for ordering information.



---

## **PART 4**

- 11 Page Setup
- 12 Printer Fonts
- 13 Technical Information
- 14 Ordering Information



### **Reference**





## **Page setup**

Media Size .....	11-2
Page Orientation.....	11-3
The Printable Area .....	11-4
Landscape Printing .....	11-6
Margins.....	11-8
Perforation Skip Mode .....	11-9
Text Scale Mode .....	11-10
Avoiding Page Formatting Problems .....	11-11

## Media Size

You can use the following media sizes with the HP DeskJet Portable printer:

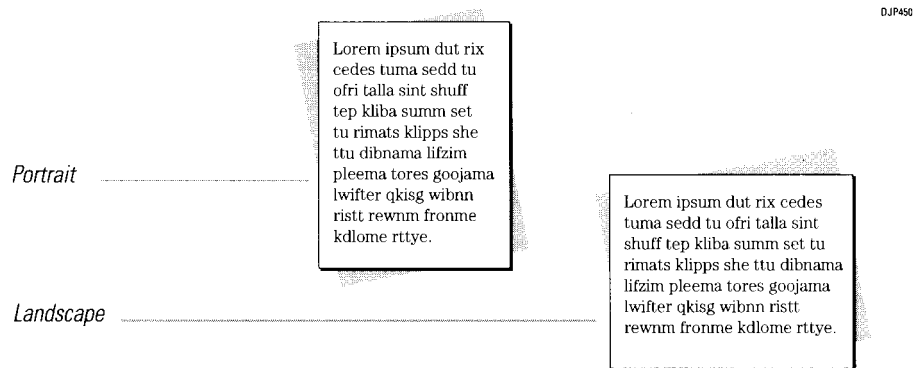
- U.S. Letter (8.5 inches by 11 inches)
- U.S. Legal (8.5 inches by 14 inches)
- European A4 (210 mm by 297 mm)
- U.S. Executive (7.25 inches by 10.5 inches)

The printer's default media size is U.S. Letter. You can change the default media size using the configuration menu. Refer to chapter 8, "Configuring Your Printer," for instructions. You can also set the media size using your software or printer commands. Both methods override the configuration menu settings.

---

## Page Orientation

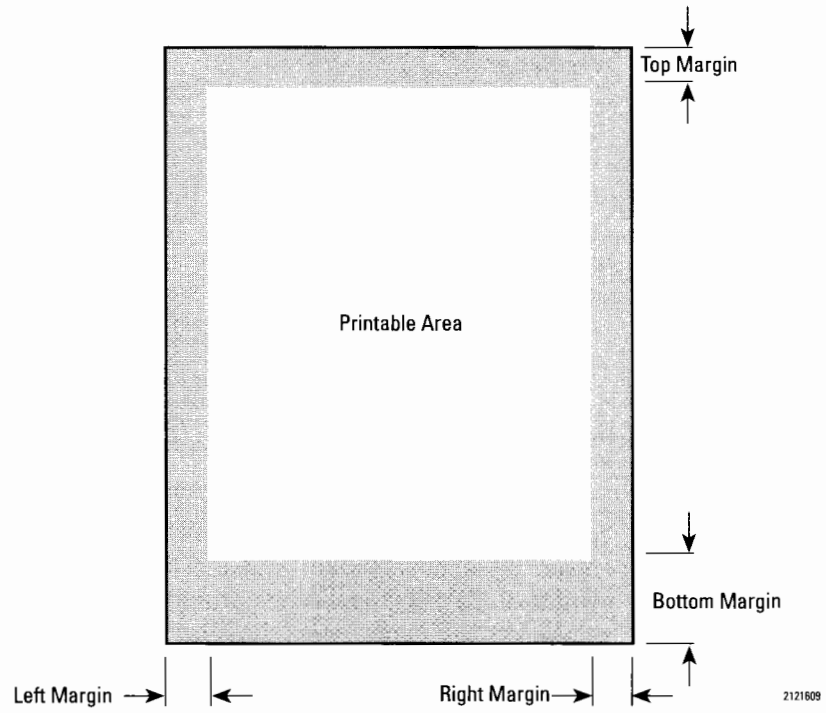
Page orientation refers to the way print appears on the page. The HP DeskJet Portable printer prints in portrait or landscape orientation. Portrait orientation is the default page orientation. The following illustration shows the difference between portrait and landscape orientation.



You can select landscape orientation using the printer control panel or software, or by sending an escape sequence. To select landscape orientation using the printer control panel, press the *Font* button until the Landscape indicator turns on. Refer to your software manual for information on printing a landscape page. If you change page orientation during printing, the printer ejects the page and changes orientation.

## The Printable Area

The printable areas for portrait and landscape pages are shown in the following illustration and the table on the following page.



Portrait Mode <sup>1,2,3</sup>					
Paper Size	Printable Area <sup>2</sup>	Top Margin	Bottom Margin	Left Margin	Right Margin
U.S. Letter 8 1/2 in. x 11 in. (215.9 mm x 279.4 mm)	8.0 in. x 10.5 in. (203.2 mm x 266.7 mm)	0.00 in. (0.0 mm)	0.5 in. (12.7 mm)	0.25 in. (6.4 mm)	0.25 in. (6.4 mm)
U.S. Legal 8 1/2 in. x 14 in. (215.9 mm x 355.6 mm)	8.0 in. x 13.5 in. (203.2 mm x 242.9 mm)				
U.S. Executive 7 1/4 in. x 10 1/2 in. (184.2 mm x 266.7 mm)	6.8 in. x 10.0 in. (172.7 mm x 254.0 mm)				
A4 210 mm x 297 mm	8.0 in. x 10.5 in. (203.2 mm x 284.3 mm)			0.125 in. (3.2 mm)	0.125 in. (3.2 mm)
Landscape Mode <sup>1,3</sup>					
Paper Size	Printable Area	Top Margin	Bottom Margin	Left Margin	Right Margin
U.S. Letter 11 in. x 8 1/2 in. (279.4 mm x 215.9 mm)	10.33 in. x 8.0 in. (262.4 mm x 203.1 mm)	0.25 in. (6.4 mm)	0.25 in. (6.4 mm)	0.5 in. (12.7 mm)	0.167 in. (4.2 mm)
U.S. Legal 14 in. x 8 1/2 in. 355.6 mm x 215.9 mm)	13.33 in. x 8.0 in. (338.6 mm x 203.1 mm)				
U.S. Executive 10 1/2 in. x 7 1/4 in. (266.7 mm x 184.2 mm)	9.83 in. x 6.75 in. (249.8 mm x 171.4 mm)				
A4 297 mm x 210 mm	(280.1 mm x 203.6 mm)	0.125 in. (3.2 mm)	0.125 in. (3.2 mm)		

1. The specification in this table are based on text scale mode off (63 lines/page on U.S. letter size paper) and perforation skip mode off. The top margin (portrait mode) increases to 0.5 inches with perforation skip on. (The factory default setting for perforation skip mode is on.)
2. Based on perforation skip mode off. Perforation skip mode on will reduce the printable area.
3. Printable area for non-Windows applications. Applications may have additional restrictions. See your software manual.

NOTE

Most software packages let you specify where print occurs on the page by setting margins or column widths. When you set margins or columns through your software, remember to keep them within the printable area of the HP DeskJet Portable printer.

---

## Landscape Printing

All control codes and escape sequences function the same way in landscape and portrait orientation with two exceptions:

- The automatic underlining command (E<sub>C</sub> & d # D) is not supported. Your software may allow you to underline using another method.
- Graphics data sent by a DOS application to the printer is ignored. Reset the printer to return to portrait orientation before sending graphics data.

### *Landscape printing options and limitations*

The following table lists landscape printing options and limitations.

Internal Fonts:	Courier 10, 12, 24 point (10, 16.67, 20 pitch) Letter Gothic 4.75, 9.5, 19 point (16.67 pitch) 6, 12, 24 point (12 and 24 pitch)
Media Size:	U.S. letter, U.S. legal, A4 European, U.S. Executive
Left Margin*:	13 mm (1/2 inch)
Right Margin:	a minimum setting of 1/6 inch (4mm) from the right edge of the media.
Top and Bottom Margins**:	1/4 inch on U.S. letter size media 3.18 mm on A4 size media
Printable area between left and right margins:	10 1/3 inches on U.S. letter size media 280mm on A4 size media
Printable area between top and bottom margins**:	8 inches on U.S. letter size media 203 mm on A4 size media*

\* Left Margin cannot be decreased.

\*\*Perforation Skip Mode on, adds 6 mm (1/4 inch) to the top and bottom margins. Changing the lines per inch from 6 lpi to 8 lpi and turning Perforation Skip Mode off increases the number of lines in the printable area.



### ***Lines of text per page***

The following table lists the lines of text available per page for the different media sizes. Text scale mode has no effect in landscape orientation.

<b>Paper Size</b>	<b>Lines Per Page</b>		<b>Characters Per Line</b>		
	<b>6 lpi</b>	<b>8 lpi</b>	<b>10 cpi</b>	<b>16.67 cpi</b>	<b>20 cpi</b>
U.S. Letter	45 (48)*	60 (64)*	103	172	206
European A4	45 (48)*	60 (63)*	110	183	220
U.S. Legal	45 (48)*	60 (64)*	133	222	266
U.S. Executive	39 (42)*	52 (56)*	97	161	193

\* = Perforation Skip Mode off

lpi=Lines Per Inch (vertical) cpi=Characters Per Inch (horizontal)

## **Margins**

This section identifies the variables for setting your margins.

### ***Left and right side margins***

The left margin is the area between the left edge of the paper and the beginning of the printed text. The leftmost print position on U.S. letter, U.S. legal, and U.S. executive paper is 6 mm ( $\frac{1}{4}$  inch) in from the left edge of the paper. The leftmost print position on European A4 paper is 3 mm ( $\frac{1}{8}$  inch) from the left edge.

### ***Line spacing***

Line spacing is the vertical distance between printed lines on the page. It is measured as the number of printed vertical lines per inch (lpi). The default line spacing is 6 lpi.

### ***Top margin***

The top margin is the area between the top of the paper and the beginning of the printed text. The first printable line below the top margin is called the top-of-form. The HP DeskJet Portable printer has a default top margin of 13 mm ( $\frac{1}{2}$  inch) or three lines at 6 lpi with the perforation skip mode on. The top margin is set to 0 when the perforation skip mode is off. Refer to “Perforation Skip Mode” in this chapter for more information.

### ***Bottom margin***

The bottom margin depends on the perforation skip mode and text scale mode settings. Refer to “Perforation Skip Mode” or “Text Scale Mode” in this chapter for more information.

---

## Perforation Skip Mode

The perforation skip mode controls the top and bottom margins of a page. The margin area at the top and bottom of a page is the perforation region. When perforation skip mode is on, both the top and bottom margins are 13 mm (1/2 inch) and the page length is 60 lines. The bottom margin, referred to as the unprintable area, cannot be printed on. Information written to this area prints on the following page.

The default setting for perforation skip mode is on. When the perforation skip mode is off, the top margin decreases to 0, the unprintable area at the bottom of the page remains at 13 mm (1/2 inch), and the page length increases to 63 lines per page. For information on further increasing the page length, refer to “Text Scale Mode” in this chapter.

---

## Text Scale Mode

The text scale mode lets the printer print 66 lines of text in a 63-line area by scaling the vertical position of the lines on a page. A U.S. Letter size (8 1/2 inch x 11 inch) page has a page length of 66 lines with line spacing at 6 lines per inch.

Use the text scale mode only when printing portrait-oriented text. It is disabled if the perforation skip mode is on or if the printer is set to landscape orientation or graphics mode. Using the text scale mode with merged text and graphics results in an incorrect printout. The printer's default setting is text scale mode off. You can set the text scale mode using the printer's configuration menu. You can also send the printer command `E_C & k 6 W` to the printer to turn on the text scale mode.

The following example should help explain text scale mode.

EXAMPLE

.....

You have the following parameters for an 11 inch page:

Line spacing: 6 lpi  
Perforation skip mode: OFF  
Unprintable region: 1/2 inch (3-line bottom margin)  
Page length:  
11 in. (66 lines) - 1/2 in. (3 lines) = 10 1/2 in.  
(63 lines of printable page length).

To increase the number of lines in the printable page length, turn on text scale mode. You can now print 66 lines within the 10 1/2 inches.

.....

## **Avoiding Page Formatting Problems**

Use the following guidelines to avoid page formatting problems:

- Make sure the page length setting in your software is 60 lines per page (for U.S. letter), whenever you use perforation skip mode and text scale mode factory default settings.
- Always use your software to set margins.





## **Printer Fonts**

Font Terms.....	12-2
The Printer and Fonts.....	12-8
Methods for Selecting Fonts.....	12-10
Expanding Your Font Selection.....	12-13
Using Fonts in Your Document.....	12-14

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## Font Terms

This section identifies and defines some common font terms.

### *Font*

A font is a collection of characters and symbols of the same typeface, spacing, size, stroke weight, and style. For example, Courier 10 pitch, 12 point is one font; Courier 20 pitch, 12 point is another font.

### *Typeface*

A typeface is a set of characters and symbols that have a unique design. The following example shows three typefaces.

EXAMPLE

.....

#### **Courier**

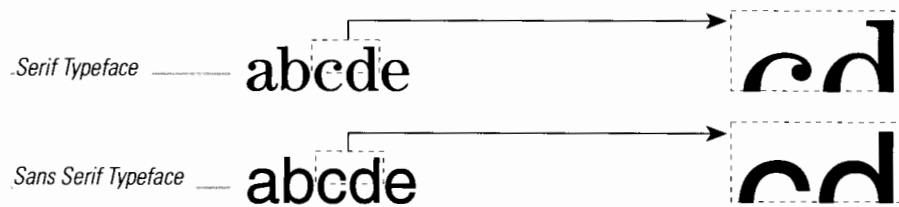
Univers

#### **CG Times**

.....

### *Serif or sans serif typeface*

Serifs are the crosslines or finishing strokes at the top or bottom of a character. CG Times and Courier are serif typefaces. Typefaces without serifs are called sans serif. Univers and Letter Gothic are sans serif typefaces.



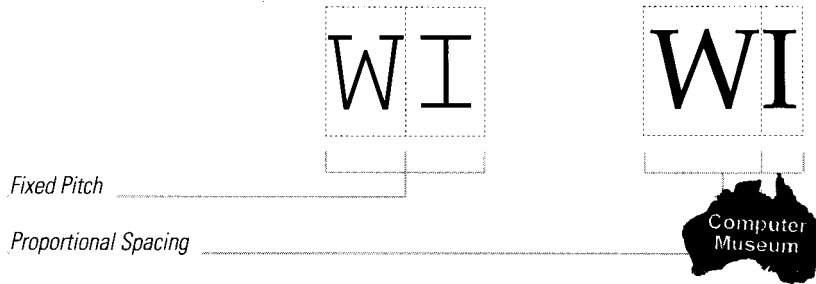
DJP451



## *Spacing*

Spacing is the relative width spacing between characters. Spacing is either fixed-pitch or proportional. Fixed-pitch fonts have the same horizontal space (or width) and are often called monospaced fonts. Proportionally spaced characters have horizontal space based on the needs of each character. Courier and Letter Gothic are fixed-pitch fonts. CG Times and Univers are proportionally spaced fonts.

DJP452

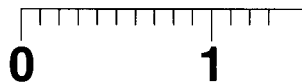


## *Pitch*

Pitch is the number of characters printed per horizontal inch. A 10-pitch font prints ten characters per horizontal inch (cpi). Pitch applies only to fixed-pitch fonts, since spacing varies from character to character with proportionally spaced fonts.

abcdeabcdeab **12 pitch or 12 characters per inch**

abcdeabcde **10 pitch or 10 characters per inch**



DJP453

### ***Kerning***

Kerning is the adjustment of spacing between proportionally spaced characters to make them visually more even, balanced, and attractive. Fixed-pitch fonts are not kerned.

EXAMPLE

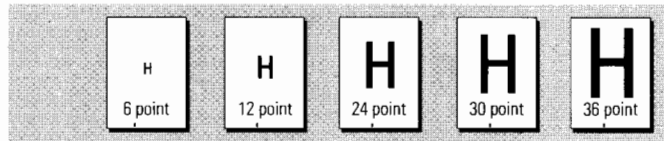
.....  
No Kerning

Kerning  
.....

### ***Point size***

Point size (character height) refers to the height of a printed uppercase character defined in points. One point is  $\frac{1}{72}$  inch, so 72 points equals one inch. Both fixed-pitch and proportionally spaced fonts are measured by point size.

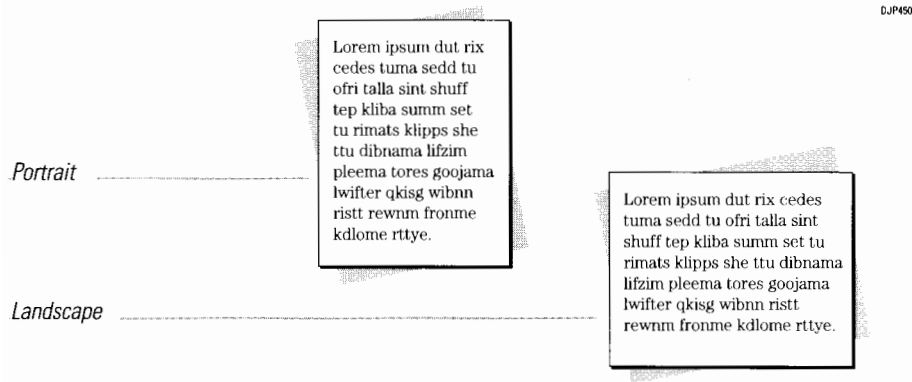
DJP449





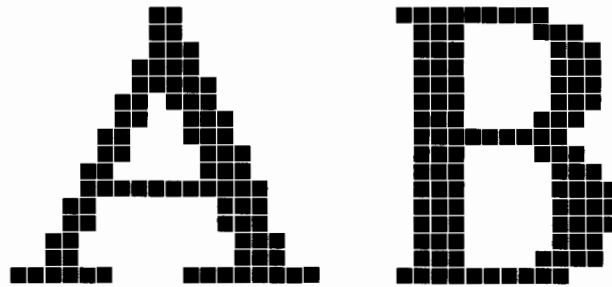
### ***Orientation***

Orientation refers to the way print appears on a page. You can print some fonts in either portrait or landscape orientation.



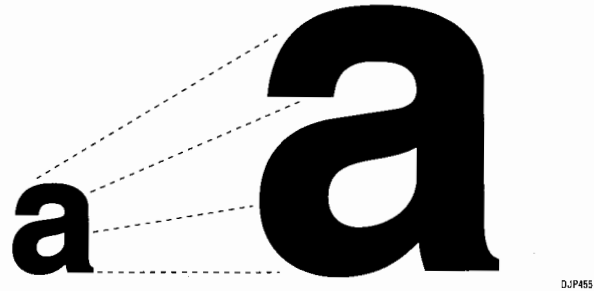
### ***Bitmapped fonts***

Bitmapped fonts are collections of characters and symbols with a unique design and specific size stored as patterns of dots. Bitmapped fonts are rigid and not changeable.



### ***Scalable printer fonts***

Scalable printer fonts are the outlines of the characters and symbols of a font stored in mathematical form. You can scale character outlines (reduce or enlarge) to a range of point sizes. Scalable fonts are also called outline fonts.



### ***Screen fonts***

Screen fonts are bitmapped images of fonts that match scalable printer fonts. Screen fonts give a close approximation of the printed text on the computer screen.

---

## The Printer and Fonts

The HP DeskJet Portable printer lets you use the following types of fonts:

- Internal fonts
- Scalable printer fonts

### *Internal fonts*

Internal fonts are bitmapped fonts stored in the printer. They are often referred to as built-in fonts or resident fonts. The following internal fonts are available through the printer.

#### **Internal (Built-in) Fonts**

<b>Typeface</b>	<b>Orientation</b>	<b>Pitch</b>	<b>Point Size</b>	<b>Style</b>	<b>Stroke Weight</b>
Courier	portrait	5, 10, 20 16.67	6, 12 6, 12	upright, italic upright	medium, bold medium, bold
	landscape	10, 16.67, 20	6, 12, 24	upright	medium, bold
CG Times	portrait	Proportional	5, 6, 7, 8, 10, 12, 14	upright, italic	medium, bold
Letter Gothic	portrait	6, 12, 24	6, 12	upright, italic	medium, bold
	landscape	6, 12, 24 16.67	6, 12, 24 4.75, 9.5, 19	upright, italic upright, italic	medium, bold medium, bold
Univers	portrait	Proportional	5, 6, 10, 12, 7, 8, 14	upright, italic upright	medium, bold medium, bold

### *Default font*


If you do not select a font, the default font prints. The default font is a portrait-oriented Courier 10-pitch, 12-point, upright, medium-weight font.

### ***Fixed-pitch font variations***

You can print fixed-pitch fonts in a combination of pitch and point sizes.

EXAMPLE

.....

Courier 20 pitch, 6 point	<code>courier</code>	
Courier 20 pitch, 12 point	Courier	
Courier 16.67 pitch, 6 point	<code>courier</code>	
Courier 16.67 pitch, 12 point	Courier	
Courier 10 pitch, 6 point	<code>Courier</code>	
Courier 10 pitch, 12 point	Courier	
Courier 5 pitch, 6 point	<code>courier</code>	
Courier 5 pitch, 12 point	Courier	

.....

### ***Scalable printer fonts***

Scalable printer fonts are the outlines of the characters and symbols of a font stored in mathematical form. The typefaces are scalable from 4 to 127 point.

Scalable fonts are available for the HP DeskJet Portable printer when you use the Microsoft universal printer driver for Microsoft Windows version 3.1 (supplied with your HP DeskJet Portable printer).

## Methods for Selecting Fonts

You can select fonts using your software, the printer control panel, or by sending printer commands. The method you use to select fonts depends on the software you use.

### *Using software*

The printer driver you use determines the number of fonts that are available to you, and the steps you use to select a font. You should install a specific printer driver for the HP DeskJet Portable printer for best access to available fonts. Printer drivers are discussed in chapter 3, "Printing with Your Software." Also refer to your software manual for information.

### *Using the printer control panel*

If your software lets you use the printer control panel to select fonts, press the *Font* button to select between the Courier 10- and 16.67-pitch fonts in portrait orientation. You cannot select Letter Gothic, CG Times, or some Courier fonts (5 and 20 pitch) with the printer control panel. To select the landscape Courier 10-pitch font with the control panel, press the *Font* button until the Landscape indicator lights. You must use your software application or printer commands to select other internal fonts. Some software applications override font selections made with the printer control panel.

### *Using printer commands*

In most software applications, you do not need to use printer commands to select fonts. But if you must use printer commands, refer to "Printer Commands" in chapter 13 for information.



## Using Fonts in Your Documents

Fonts help set the mood and tone of a document. Here are a few guidelines for designing documents with fonts.

- Select fonts that are appropriate for the message you want to communicate. Use serif typefaces (CG Times, Courier) for formal letters. Use sans serif typefaces (Letter Gothic) for informal memos or spreadsheets. You can also use sans serif typefaces for titles and headings.
- Use fonts wisely. Using too many fonts in a document causes confusion for your reader.
- Use bold or italic fonts to emphasize or visually cue the reader to important information.

### *Choosing Internal Fonts*

Use the following tips for choosing internal fonts. Note that you cannot select CG Times, Letter Gothic, or some Courier fonts (5 and 20 pitch) with the printer control panel. Select these fonts with software or printer commands.

**Courier** is a fixed-pitch serif typeface frequently used for correspondence and professional documents. The Courier 10-pitch font, often called a typewriter-style typeface, lends a cordial feel to a document. Use the Courier 16.67-pitch font to efficiently present text in a limited amount of space.

**Letter Gothic** is a fixed-pitch sans serif typeface used for a variety of applications. This typeface has a clean, modern look and works well for text in columns, tables, and lists. The Letter Gothic bold font can be used as a subheading.

**CG Times** is a kerned proportionally spaced serif typeface with a traditional look. This typeface provides an authoritative tone and is easy to read. The CG Times 12 point font works especially well as body text in long documents and correspondence.

**Univers** is a sans serif proportionally spaced typeface that has a clean look. This typeface works well in columns, headings, and tables.

## **Expanding Your Font Selection**

If you use Microsoft Windows 3.1, you can use TrueType fonts with the Microsoft universal printer driver.



## **Technical Information**

Specifications .....	13-2
Regulatory Notices .....	13-5
Character Sets .....	13-8
Printer Commands .....	13-19
Centronics Parallel Interface .....	13-31

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## Specifications

### **Print Method**

Plain paper drop-on-demand thermal inkjet printing

### **Print Speed\***

Letter quality mode: 2 pages per minute

Draft quality mode: 3 pages per minute (2 pages per minute with battery operation)

### *Mechanism Speed*

Letter quality mode: 167 cps at 10 cpi

Draft quality mode: 240 cps at 10 cpi (167 cps at 10 cpi with battery operation)

### **Resolution**

Letter quality mode: 300 x 300 dpi

Draft quality mode: 150 x 300 dpi

### **Graphics Resolution**

Full-page 75, 100, 150, 300 dpi

### **Printer Command Language**

HP PCL Level 3 with extensions

### **Character Set Support**

HP Roman8, PC-8, PC-8 (D/N), ISO 7 bit languages (German, French, Italian, Norwegian, Portuguese, Swedish, Spanish, U.K.), PC-850, ASCII, ECMA-94 Latin 1, and HP Legal

### **Built-in (internal) Fonts**

#### *Courier (Portrait Orientation)*

Pitch: 5, 10, 16.67, 20

Point size: 6, 12

Style: Upright, Italic (no Italic with 16.67 pitch font)

Stroke weight: Normal, Bold

#### *CG Times (Portrait Orientation)*

Pitch: Proportional

Point size: 5, 6, 7, 8, 10, 12, 14

Style: Upright, Italic

Stroke weight: Normal, Bold

#### *Letter Gothic (Portrait Orientation)*

Pitch: 6, 12, 24

Point size: 6, 12

Style: Upright, Italic

Stroke weight: Normal, Bold

#### *Univers (Portrait Orientation)*

Pitch: Proportional

Point size: 5, 6, 7, 8, 10, 12, 14

Style: Upright (Italic: 5, 6, 10, 12 point only)

Stroke weight: Normal, Bold

*\* Approximate figures. Exact speed will vary depending on the system configuration and software application package used.*

**Built-in (internal) Fonts (Continued)**

*Courier (Landscape Orientation)*

Pitch: 10, 16.67, 20

Point size: 6, 12, 24

Style: Upright

Stroke weight: Normal, Bold

*Letter Gothic (Landscape Orientation)*

Point size: 4.75, 9.5, and 19 (16.67 pitch); 6, 12, 24 (12 and 24 pitch)

Style: Upright

Stroke weight: Normal, Bold

**Media Weight**

60 to 90 g/m<sup>2</sup> (16 to 24 lb)

**Media Size**

US Letter (8.5 x 11 in.)

European A4 Letter (210 x 297 mm)

US Legal (8.5 x 14 in.)

Executive (7.25 x 10.5 in.)

Transparencies: US Letter and European A4

Labels: US Letter and European A4

**Media Handling**

Manual feeding (printer only)

Optional cut-sheet feeder (up to 50 sheets)

**Control Panel**

*Buttons*

On line, Font, Draft, LF/FF, Chg. Pen/Menu, and Power

*Indicator Lights*

Busy, On line, Landscape Font, Compressed Font, Draft, Configuration mode, Change pen mode, Charge, Power.

**I/O Interface**

Centronics parallel

**Buffer Size**

48 Kbyte receive buffer

**Power Requirements**

Power modules:

Input Voltage (depends on power module ordered):

100, 120, 220, 230, or 240 VAC (+10%, -10%):

<b>Part Number</b>	<b>Input Voltage</b>	<b>Frequency</b>
C2613-80010	100 VAC	50/60 Hz (+3 Hz, -3 Hz)
C2614-80003	120 VAC	60 Hz (+3 Hz, -3 Hz)
C2614-80007/C2614-80033	220 VAC	50 Hz (+3 Hz, -3 Hz)
C2614-80005	230 VAC	50 Hz (+3 Hz, -3 Hz)
C2614-80004/C2614-80006	240 VAC	50 Hz (+3 Hz, -3 Hz)

**Power consumption:**

5 watts maximum non-printing  
13.5 watts maximum printing  
8 watts maximum charging

**Operating Environment**

Maximum operating temperature range:

5°C (41°F) to 40°C (104°F)

Recommended operating temperature range for best print quality: 15°C (59°F) to 35°C (95°F)

Storage temperature range: -40°C (-40°F) to 60°C (140°F)

Humidity: 15-80% RH non-condensing

Noise Levels per ISO 7779:

Sound Power, LwAd:	<58 dB(A)
Sound Pressure, LpAm:	<45 dB(A)

**Dimensions (printer only)**

310 mm (12 in.) W x 65 mm (2.5 in.) H x 146 mm (5.75 in.)D

**Dimensions (printer and optional sheet feeder)**

330 mm (13 in.) W x 90 mm (3.5 in.) H x 240 mm (9.5 in.)D

**Weight**

2 kg (4.4 lb)

3.4 kg (7.5 lb) (with sheet feeder)

**Reliability**

25,000 page life. 20,000 hours MTBF

500 total pages per month maximum use

**Product Certifications**

Safety Certifications - Power Module: UL, CSA, TÜV or VDE, SEMKO, NEMKO, SETI/FI, LCIE, SECV, DEMKO, SEV, MITI

Safety Certifications - Printer with Power Module: UL, CSA, TÜV. Others not required.

EMI Certifications - Printer with Power Module: FCC Class B when used with a Class B computing device (USA), EMC Directive 89/336/EEC (European Community), VCCI (Japan), SABS (South Africa)

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## Regulatory Notices

### *Potential for radio/television interference (USA only)*

The HP DeskJet Portable printer generates and uses radio frequency energy and may cause interference to radio and television reception. Your printer complies with the specifications in Subpart B of Part 15 of the Federal Communications Commission rules for a Class B computing device. These specifications provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If the printer does cause interference to radio or television reception, which can be determined by turning the printer off and on, you can try to eliminate the interference problem by doing one or more of the following:

- Re-orient the receiving antenna.
- Re-orient the position of the printer with respect to the receiver.
- Move the printer away from the receiver.
- Plug the printer into a different outlet so that the printer and receiver are on different branch circuits.

If necessary, consult an authorized HP dealer or an experienced radio/television technician for additional suggestions. You 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 U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

To comply with FCC rules Part 15B Class B computing device use only shielded interface cables.

### ***Power module statement***

The power module cannot be repaired. If it is defective it should be discarded or returned to the supplier.

Die Anschlußleitung dieses Gerätes kann nicht ersetzt werden; bei Beschädigung der Leitung sollte das Gerät weggeworfen werden.

#### **波障害について**

この装置は、第二種情報装置(住宅地域又はその隣接した地域において使用されるべき情報装置)で住宅地域での電波障害防止を目的とした情報処理装置等電波障害自主規制協議会(VCCI)基準に適合しております。

しかし、本装置をラジオ、テレビジョン受信機に近接してご使用になると、受信障害の原因になることがあります。

取扱説明書に従って正しい取り扱いをして下さい。

### ***Svenska***

Får endast anslutas till jordat nätuttag.

**Observera!**

Skadas sladden till denna nätadapter skall enheten kasseras. Sladden går ej att byta ut.



## DECLARATION OF CONFORMITY

according to ISO/IEC Guide 22 and EN 45014

**Manufacturer's name:** Hewlett-Packard Singapore  
Pte Ltd.

**Manufacturer's address:** 1150 Depot Road  
Singapore 0410

*declares, that the product*

**Product Name:** DeskJet 300J and DeskJet Portable Printers

**Model Number:** C2613A and C2614A

**Product Options:** All

*conforms to the following Product Specifications:*

**Safety:** IEC 950:1986/EN 60950 (1988)

**EMC:** CISPR 22:1985/EN55022 (1988):Class B(1)  
IEC 801-2:1991/prEN55101-2 (1990): 3kV CD, 8kV AD  
IEC 801-3:1984/prEN55024-3 (1991): 3V/m

**Supplementary Information:**

*The product was tested in a typical configuration with Hewlett-Packard  
Personal Computer and Test System.*

Singapore, June 23, 1992



Hengky Oeni, QA Manager

**European Contact: Your local Hewlett-Packard Sales and Service Office  
or Hewlett-Packard GmbH, Department 2Q/Standards Europe,  
Herrenberger Straße 130, D-7030 Boblingen (Fax:+49-7031-141195)**

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## Character Sets

A character set is a collection of the symbols and characters that constitute all elements of a language or discipline (legal), including punctuation and numbers. This section describes the character sets available and provides examples.

There are two types of character sets:

- 7-bit character sets
- 8-bit character sets

7-bit character sets use only seven bits of the character byte to designate the character and have 128 characters. 8-bit character sets use the eighth bit of the character byte to access 256 characters.

### *7-bit character sets*

The 7-bit character sets conform to standard definitions set forth by the International Standards Organization (ISO). The printer supports the following 7-bit character sets:

- United Kingdom (ISO 4)
- German (ISO 21)
- French (ISO 69)
- Italian (ISO 15)
- Norwegian 1 (ISO 60)
- Norwegian 2 (ISO 61)
- Sweden: Names (ISO 11)
- Swedish (ISO 10)
- Spanish (ISO 17)
- ANSI ASCII (ISO 6)
- PC-850 (ISO 14)
- Portuguese (ISO 16), IRV (ISO 2)
- HP Legal

### ***8-bit character sets***

The definitions of the first 128 characters in the 8-bit character set are standardized to the American Standard Code for Information Interchange (ASCII). This printer supports the following 8-bit character sets:

- PC-8
- HP Roman8
- PC-850
- PC-8 Danish/Norwegian
- ECMA-94 Latin 1



The printer's default character set is PC-8. You can change the default character set with the configuration menu. See chapter 8, "Configuring the Printer," for information.

This section identifies the character locations and ASCII character code addresses (positions) for the character sets supported by the HP DeskJet Portable printer.

*PC-8 character set chart*

	▶		0	@	P	'	p	Ç	É	á	☐	⊥	⊥	α	≡
0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
☺	◀	!	1	A	Q	a	q	ü	æ	í	☐	⊥	⊥	β	±
1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
☺	↕	"	2	B	R	b	r	é	Æ	ó	☐	⊥	⊥	Γ	≥
2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
♥	!!	#	3	C	S	c	s	â	ô	ú		⊥	⊥	π	≤
3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
♦	¶	\$	4	D	T	d	t	ä	ö	ñ	⊥	⊥	⊥	Σ	∫
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
♣	§	%	5	E	U	e	u	à	ò	Ñ	⊥	⊥	⊥	σ	∫
5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
♠	—	&	6	F	V	f	v	â	û	ª	⊥	⊥	⊥	μ	÷
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
●	↕	'	7	G	W	g	w	ç	ù	º	⊥	⊥	⊥	τ	≈
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
◼	↑	(	8	H	X	h	x	ê	ÿ	¿	⊥	⊥	⊥	Φ	°
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
○	↓	)	9	I	Y	i	y	ë	Ö	⊥	⊥	⊥	⊥	θ	·
9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
◼	→	*	:	J	Z	j	z	è	Ü	⊥	⊥	⊥	⊥	Ω	·
10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
♂	←	+	;	K	[	k	{	ï	ç	½	⊥	⊥	⊥	δ	√
11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
♀	⊥	,	<	L	\	l		î	£	¼	⊥	⊥	⊥	∞	n
12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
♪	↔	-	=	M	]	m	}	ì	¥	;	⊥	⊥	⊥	φ	2
13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
♪	▲	.	>	N	^	n	~	Ä	Pt	«	⊥	⊥	⊥	ε	■
14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
☼	▼	/	?	O	_	o	☐	Å	f	»	⊥	⊥	⊥	∩	
15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255

*HP Roman8 character set chart*

0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
			0	@	P	'	p				-	â	Å	Á	Þ
1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
			!	1	A	Q	a	q		À	Ý	ê	î	Ã	þ
2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
			"	2	B	R	b	r		Â	ý	ô	ø	ã	·
3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
			#	3	C	S	c	s		È	°	û	Æ	Ð	μ
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
			\$	4	D	T	d	t		Ê	Ç	á	å	ð	¶
5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
			%	5	E	U	e	u		Ë	ç	é	í	Í	¾
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
			&	6	F	V	f	v		Ï	Ñ	ó	ø	ì	—
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
			'	7	G	W	g	w		Ï	ñ	ú	æ	Ó	¼
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
			(	8	H	X	h	x		´	ı	à	Ä	Ö	½
9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
			)	9	I	Y	i	y		`	ı	è	ì	Õ	ª
10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
			*	:	J	Z	j	z		^	ı	ò	Ö	õ	º
11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
			+	;	K	[	k	{		¨	£	ù	Ü	Š	«
12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
			,	<	L	\	l			˜	¥	ä	É	š	■
13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
			-	=	M	]	m	}		Ù	§	ë	ï	Ú	»
14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
			.	>	N	^	n	~		Û	ƒ	ö	ß	ÿ	±
15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255
			/	?	O	_	o	☒		£	ç	ü	Ô	ÿ	

*PC-8 Danish/Norwegian character set chart*

			0	@	P	‘	p	Ç	É	á	☐	L	⊥	α	≡
0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
☺	◀	!	1	A	Q	a	q	ü	æ	í	☒	⊥	⊥	β	±
1	17	33	49	65	81	97	113	129	145	161	177	183	209	225	241
☹	↕	"	2	B	R	b	r	é	Æ	ó	☒	⊥	⊥	Γ	≥
2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
♥	!!	#	3	C	S	c	s	â	ô	ú		⊥	⊥	π	≤
3	19	35	51	67	83	99	115	131	147	163	179	185	211	227	243
♦	¶	\$	4	D	T	d	t	ä	ö	ñ	⊥	—	⊥	Σ	∫
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
♣	§	%	5	E	U	e	u	à	ò	Ñ	≠	+	⊥	σ	∫
5	21	37	53	69	85	101	117	133	149	165	181	187	213	229	245
♠	—	&	6	F	V	f	v	å	û	õ	⊥	⊥	⊥	μ	÷
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
●	↕	'	7	G	W	g	w	ç	ù	Õ	⊥	⊥	⊥	τ	≈
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
◼	↑	(	8	H	X	h	x	ê	ÿ	¿	⊥	⊥	⊥	Φ	°
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
○	↓	)	9	I	Y	i	y	ë	Ö	ã	⊥	⊥	⊥	θ	·
9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
◐	→	*	:	J	Z	j	z	è	Ü	Ã	⊥	⊥	⊥	Ω	·
10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
♂	←	+	;	K	[	k	{	ï	ø	ℓ	⊥	⊥	⊥	δ	√
11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
♀	⊥	,	<	L	\	l		î	£	ñ	⊥	⊥	⊥	∞	n
12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
♪	↔	-	=	M	]	m	}	ì	Ø	ì	⊥	=	⊥	φ	2
13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
♪	▲	.	>	N	^	n	~	Ä	Ł	3	⊥	⊥	⊥	ε	■
14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
☼	▼	/	?	O	_	o	☒	Å	†	◻	⊥	⊥	⊥	∩	
15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255

*PC-850 character set chart*

0	▶		0	@	P	‘	p	Ç	É	á	☐	L	ð	Ó	-	
16	32	48	64	80	96	112	128	144	160	176	192	208	224	240		
1	☺	◀	!	1	A	Q	a	q	ü	æ	í	☒	⊥	Ð	β	±
17	33	49	65	81	97	113	129	145	161	177	193	209	225	241		
2	☹	↕	"	2	B	R	b	r	é	Æ	ó	☒	⊥	Ê	Ô	=
18	34	50	66	82	98	114	130	146	162	178	194	210	226	242		
3	♥	!!	#	3	C	S	c	s	â	ô	ú			Ë	Ò	¾
19	35	51	67	83	99	115	131	147	163	179	195	211	227	243		
4	♦	¶	\$	4	D	T	d	t	ã	ö	ñ		—	È	õ	¶
20	36	52	68	84	100	116	132	148	164	180	196	212	228	244		
5	♣	§	%	5	E	U	e	u	à	ò	Ñ	Á	+	ı	Õ	§
21	37	53	69	85	101	117	133	149	165	181	197	213	229	245		
6	♠	—	&	6	F	V	f	v	â	û	ª	Â	ã	Í	μ	÷
22	38	54	70	86	102	118	134	150	166	182	198	214	230	246		
7	●	↕	'	7	G	W	g	w	ç	ù	º	À	Ã	Î	þ	¸
23	39	55	71	87	103	119	135	151	167	183	199	215	231	247		
8	◼	↑	(	8	H	X	h	x	ê	ÿ	ı	©	ℓ	Ï	Ɔ	°
24	40	56	72	88	104	120	136	152	168	184	200	216	232	248		
9	○	↓	)	9	I	Y	i	y	ë	Ö	®	≡	≡	┘	Ú	¨
25	41	57	73	89	105	121	137	153	169	185	201	217	233	249		
10	◼	→	*	:	J	Z	j	z	è	Ü	¬		≡	┘	Û	·
26	42	58	74	90	106	122	138	154	170	186	202	218	234	250		
11	♂	←	+	;	K	[	k	{	ï	ø	½	≡	≡	◼	Ü	ı
27	43	59	75	91	107	123	139	155	171	187	203	219	235	251		
12	♀	└	,	<	L	\	l		î	£	¼	≡	≡	◼	Ý	³
28	44	60	76	92	108	124	140	156	172	188	204	220	236	252		
13	♪	↔	-	=	M	]	m	}	ì	Ø	ı	©	=		Ÿ	²
29	45	61	77	93	109	125	141	157	173	189	205	221	237	253		
14	♪	▲	.	>	N	^	n	~	Ä	×	«	¥	≡	Ï	-	■
30	46	62	78	94	110	126	142	158	174	190	206	222	238	254		
15	☼	▼	/	?	O	—	o	☒	Å	f	»	┘	◼	◼	'	
31	47	63	79	95	111	127	143	159	175	191	207	223	239	255		

***International (ISO) character set  
substitution table***

The ISO character sets contain the same characters as the ASCII character set except for the characters in the positions identified below. Use this table as a reference to the values for characters contained in the ISO character sets that differ from the characters in the ANSI ASCII character set.

ISO No.	Character Set Name	Decimal Character Equivalents												
		ID	35	36	64	91	92	93	94	96	123	124	125	126
6	ANSI ASCII	0U	#	\$	@	[	\	]	^	`	{	}	~	
11	Swedish Names	0S	#	□	É	Ä	Ö	Å	Û	`	ä	ö	å	ü
10	Swedish	3S	#	□	@	Ä	Ö	Å	^	`	ä	ö	å	
17	Spanish	2S	£	\$	§	;	Ñ	¿	^	`	°	ñ	ç	~
69	French	1F	£	\$	à	°	ç	§	^	μ	é	ù	è	
21	German	1G	#	\$	§	Ä	Ö	Û	^	`	ä	ö	ü	ß
4	UK	1E	£	\$	@	[	\	]	^	`	{	}		
16	Portuguese	4S	#	\$	§	Ã	Ç	Õ	^	`	ã	ç	õ	°
60	Norwegian1	0D	#	\$	@	Æ	Ø	Å	^	`	æ	ø	å	
61	Norwegian2	1D	§	\$	@	Æ	Ø	Å	^	`	æ	ø	å	ı
2	IRV		#	□	@	[	\	]	^	`	{	}		
15	Italian	0I	£	\$	§	°	ç	é	^	`	à	ò	è	ì



*ECMA-94 Latin 1 character set chart*

0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
			0	@	P	‘	p			°	À	Ð	à	ð	
1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
			!	1	A	Q	a	q		ı	±	Á	Ñ	á	ñ
2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
			"	2	B	R	b	r		ç	²	Â	Ò	â	ò
3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
			#	3	C	S	c	s		£	³	Ã	Ó	ã	ó
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
			\$	4	D	T	d	t		¤	´	Ä	Ô	ä	ô
5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
			%	5	E	U	e	u		¥	µ	Å	Õ	å	õ
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
			&	6	F	V	f	v			¶	Æ	Ö	æ	ö
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
			'	7	G	W	g	w		§	·	Ç	×	ç	÷
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
			(	8	H	X	h	x		"	¸	È	Ø	è	ø
9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
			)	9	I	Y	i	y		©	ı	É	Ù	é	ù
10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
			*	:	J	Z	j	z		ª	º	Ê	Ú	ê	ú
11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
			+	;	K	[	k	{		«	»	Ë	Û	ë	û
12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
			,	<	L	\	l			¬	¼	Ì	Ü	ì	ü
13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
			-	=	M	]	m	}		-	½	Í	Ý	í	ý
14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
			.	>	N	^	n	~		®	¾	Î	Þ	î	þ
15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255
			/	?	O	_	o	☒		-	¿	Ï	ß	ï	ÿ



*HP Legal character set chart*

0	16	32	0	@	P	°	p
			48	64	80	96	112
1	17	33	!	1	A	Q	a
			49	65	81	97	113
2	18	34	"	2	B	R	b
			50	66	82	98	114
3	19	35	#	3	C	S	c
			51	67	83	99	115
4	20	36	\$	4	D	T	d
			52	68	84	100	116
5	21	37	%	5	E	U	e
			53	69	85	101	117
6	22	38	&	6	F	V	f
			54	70	86	102	118
7	23	39	'	7	G	W	g
			55	71	87	103	119
8	24	40	(	8	H	X	h
			56	72	88	104	120
9	25	41	)	9	I	Y	i
			57	73	89	105	121
10	26	42	*	:	J	Z	j
			58	74	90	106	122
11	27	43	+	;	K	[	k
			59	75	91	107	123
12	28	44	,	=	L	®	l
			60	76	92	108	124
13	29	45	-	=	M	]	m
			61	77	93	109	125
14	30	46	.	ç	N	©	n
			62	78	94	110	TM
15	31	47	/	?	O	_	o
			63	79	95	111	127

### ASCII decimal hexadecimal conversion table

This table provides the decimal and hexadecimal equivalent of each character in the HP Roman8 character set. The HP Roman8 character set is an 8-bit symbol set. In addition to the characters and symbols of the standard ASCII character set, it contains international characters and symbols. Use this table to convert printer commands to decimal or hexadecimal values.

CHAR	DEC.	HEX.
CTL@	N <sub>0</sub>	00
CTLA	S <sub>H</sub>	01
CTLB	S <sub>X</sub>	02
CTLC	F <sub>X</sub>	03
CTLD	F <sub>T</sub>	04
CTLE	E <sub>0</sub>	05
CTLF	A <sub>X</sub>	06
CTLG	Q	07
CTLH	B <sub>S</sub>	08
CTLI	H <sub>T</sub>	09
CTLJ	L <sub>T</sub>	0A
CTLK	V <sub>T</sub>	0B
CTLL	F <sub>F</sub>	0C
CTLM	C <sub>R</sub>	0D
CTLN	S <sub>0</sub>	0E
CTLO	S <sub>1</sub>	0F
CTLP	D <sub>L</sub>	10
CTLQ	D <sub>1</sub>	11
CTLR	D <sub>2</sub>	12
CTLS	D <sub>3</sub>	13
CTLT	D <sub>4</sub>	14
CTLU	M <sub>K</sub>	15
CTLV	S <sub>Y</sub>	16
CTLW	E <sub>B</sub>	17
CTLX	C <sub>N</sub>	18
CTLY	E <sub>M</sub>	19
CTLZ	S <sub>B</sub>	1A
CTL[	E <sub>C</sub>	1B
CTL\	F <sub>S</sub>	1C
CTL]	G <sub>S</sub>	1D
CTL^	R <sub>S</sub>	1E
CTL_	U <sub>S</sub>	1F

CHAR	DEC.	HEX.
!	32	20
"	33	21
#	34	22
\$	35	23
%	36	24
&	37	25
'	38	26
(	39	27
)	40	28
*	41	29
+	42	2A
,	43	2B
-	44	2C
.	45	2D
/	46	2E
0	47	2F
1	48	30
2	49	31
3	50	32
4	51	33
5	52	34
6	53	35
7	54	36
8	55	37
9	56	38
:	57	39
;	58	3A
<	59	3B
=	60	3C
>	61	3D
?	62	3E
	63	3F

CHAR	DEC.	HEX.
a	64	40
A	65	41
B	66	42
C	67	43
D	68	44
E	69	45
F	70	46
G	71	47
H	72	48
I	73	49
J	74	4A
K	75	4B
L	76	4C
M	77	4D
N	78	4E
O	79	4F
P	80	50
Q	81	51
R	82	52
S	83	53
T	84	54
U	85	55
V	86	56
W	87	57
X	88	58
Y	89	59
Z	90	5A
[	91	5B
\	92	5C
]	93	5D
^	94	5E
_	95	5F

CHAR	DEC.	HEX.
'	96	60
a	97	61
b	98	62
c	99	63
d	100	64
e	101	65
f	102	66
g	103	67
h	104	68
i	105	69
j	106	6A
k	107	6B
l	108	6C
m	109	6D
n	110	6E
o	111	6F
p	112	70
q	113	71
r	114	72
s	115	73
t	116	74
u	117	75
v	118	76
w	119	77
x	120	78
y	121	79
z	122	7A
{	123	7B
	124	7C
}	125	7D
~	126	7E
■	127	7F

ASCII Decimal-Hex Table (continued)

CHAR.	DEC.	HEX.
N <sub>U</sub>	128	80
S <sub>H</sub>	129	81
S <sub>X</sub>	130	82
E <sub>X</sub>	131	83
E <sub>L</sub>	132	84
E <sub>D</sub>	133	85
A <sub>K</sub>	134	86
Q	135	87
B <sub>S</sub>	136	88
H <sub>L</sub>	137	89
L <sub>F</sub>	138	8A
V <sub>T</sub>	139	8B
F <sub>L</sub>	140	8C
C <sub>R</sub>	141	8D
S <sub>D</sub>	142	8E
S <sub>M</sub>	143	8F
D <sub>L</sub>	144	90
D <sub>1</sub>	145	91
D <sub>2</sub>	146	92
D <sub>3</sub>	147	93
D <sub>4</sub>	148	94
N <sub>K</sub>	149	95
S <sub>V</sub>	150	96
E <sub>H</sub>	151	97
C <sub>N</sub>	152	98
E <sub>M</sub>	153	99
S <sub>R</sub>	154	9A
E <sub>L</sub>	155	9B
F <sub>S</sub>	156	9C
D <sub>S</sub>	157	9D
R <sub>S</sub>	158	9E
U <sub>S</sub>	159	9F

CHAR.	DEC.	HEX.
	160	A0
À	161	A1
Á	162	A2
Â	163	A3
Ã	164	A4
Ä	165	A5
Å	166	A6
Ā	167	A7
	168	A8
	169	A9
	170	AA
	171	AB
	172	AC
Ū	173	AD
Ū	174	AE
ƒ	175	AF
	176	B0
	177	B1
	178	B2
°	179	B3
Ç	180	B4
ç	181	B5
Ñ	182	B6
ñ	183	B7
ı	184	B8
ı	185	B9
İ	186	BA
İ	187	BB
¥	188	BC
§	189	BD
f	190	BE
ç	191	BF

CHAR.	DEC.	HEX.
ā	192	C0
ē	193	C1
ō	194	C2
ū	195	C3
á	196	C4
é	197	C5
ó	198	C6
ú	199	C7
à	200	C8
è	201	C9
ò	202	CA
ù	203	CB
ä	204	CC
ë	205	CD
ö	206	CE
ü	207	CF
Ä	208	D0
ı	209	D1
Ø	210	D2
Æ	211	D3
à	212	D4
ı	213	D5
ø	214	D6
æ	215	D7
À	216	D8
ı	217	D9
Ô	218	DA
Ū	219	DB
É	220	DC
ı	221	DD
ø	222	DE
Ô	223	DF

CHAR.	DEC.	HEX.
À	224	E0
Á	225	E1
â	226	E2
ð	227	E3
d	228	E4
ı	229	E5
ı	230	E6
Ó	231	E7
Ö	232	E8
Û	233	E9
ô	234	EA
Š	235	EB
s	236	EC
Ú	237	ED
Ÿ	238	EE
ÿ	239	EF
ƒ	240	F0
ƒ	241	F1
	242	F2
	243	F3
	244	F4
	245	F5
—	246	F6
¼	247	F7
½	248	F8
¾	249	F9
ø	250	FA
«	251	FB
■	252	FC
»	253	FD
+	254	FE
■	255	FF

---

## Printer Commands

This section summarizes the printer commands and control codes available for the HP DeskJet Portable printer. Refer to this section for information on selecting printer features with printer commands. Refer to your software manual for more information on how to send printer commands.

The HP DeskJet Portable printer commands conform to HP PCL printer language. The HP PCL printer language is a standard developed by Hewlett-Packard to ensure compatibility between current and future PCL printers. This printer uses HP PCL Level 3 printer language, plus some extensions. (Extensions are optional features to the PCL printer language).

Printer commands are sent as either setup strings or embedded commands. The following list describes each type of command:

- **Setup (or initialization) strings are printer commands you send to the printer before sending any other information. Setup strings are entered as decimal or hexadecimal code, depending on your software application.**
- **Embedded commands are printer commands that you type (embed) into your file. The commands are displayed on your screen, but they do not print on your document.**

### ***Printer command basics***

In this user's guide, two conventions were used to list printer commands. To avoid confusion between characters, the following conventions have been used in escape sequence examples.

Lowercase "l" = " / "                      Number "one" = " 1 "  
Uppercase "O" = " O "                    Number "zero" = " 0 "  
E<sub>C</sub> = escape character

The " / " character does not appear on your screen.

- Spaces were added in the printer command examples for reading only. Do not enter spaces in the printer commands that you send. For example, you may see *E<sub>C</sub> ( s 10 H* in the manual, but would send *E<sub>C</sub>(s10H*.
- The printer recognizes printer commands only when the upper and lowercase letters are entered correctly.
- If you send a printer command to the printer to change a printer feature, it is in effect until you send a printer command to change it or turn it off.
- The printer returns to its default configuration switch settings when you turn it off and on, or when you press the Reset button on the printer control panel. If you send the printer command *E<sub>c</sub> E* (printer reset), the printer returns to the most current mode and font settings you selected through the printer control panel.
- Some printer commands must be sent in a particular order.

### ***Font command priorities***

The printer uses a decision-making process to sort through various font characteristics to print a font. Each characteristic has a printer command and priority (see the following table).

#### **Prioritized Font Characteristics**

<b>Priority</b>	<b>Characteristic</b>	<b>Printer Command</b>	<b># = numeric value</b>
1	Orientation	$E_c \& / \# 0$	0 = portrait, 1 = landscape
2	Character Set	$E_c ( \# U$	Refer to "Printer Commands" in chapter 13 for values
3	Spacing	$E_c ( s \# P$	0 = fixed, 1 = proportional
4	Pitch	$E_c ( s \# H$	depends on pitches available
5	Point Size	$E_c ( s \# V$	depends on point sizes available
6	Style	$E_c ( s \# S$	0 = upright, 1 = italic
7	Stroke Weight	$E_c ( s \# B$	0 = normal, 3 = bold
8	Typeface	$E_c ( s \# T$	Refer to "Printer Commands" in chapter 13 for values

When you send a printer command to select a font, you must send the appropriate command for each characteristic in the order identified. Using the printer's priority list ensures the correct font prints. For example, to select the Letter Gothic 12-pitch, 12-point font, you must send the pitch command to print this font. The default value for the pitch characteristic is 10. If you do not send the command for 12 pitch, the default Courier 10-pitch font prints. The Courier typeface prints because the pitch characteristic is higher in priority than typeface.

The following example below shows how to combine printer commands to select two fonts. See "Printer Commands" in chapter 13 for information on combining printer commands and numeric value fields.

**To Select:**

Courier, Italic  
(10 pitch, 12 point)

Send:

CG Times  
(PS, 12 point)

Send:

	ORIENTATION	PRI/SEC CHARACTER SET (=Pri,)=Sec	CHARACTER SET	PRI/SEC FONT ATTRIBUTES (=Pri,)=Sec	SPACING 0=Normal, 1= Proportional	PITCH (Characters per inch)	POINT SIZE (Char Ht in 72nds of an inch)	STYLE 0=Upright, 1=Italic	STROKE WEIGHT 0=Normal, 3=Bold	TYPEFACE	QUALITY 1=Draft, 2=Letter
E <sub>c</sub> &#x2F;00	E <sub>c</sub> (	10U	E <sub>c</sub> (s	0p	10h	12v	1s	0b	3t	2Q	
E <sub>c</sub> &#x2F;0	E <sub>c</sub> (	10U	E <sub>c</sub> (s	1p		12v	0s	0b	4101t	2Q	



### ***Combining printer commands***

To save time and shorten the length of the command, combine printer commands that share the same two characters following the Escape character. To combine printer commands, begin the printer command with E<sub>C</sub> and the two shared characters, then append the remaining characters from each command.

EXAMPLE

```
Printer commands EC(s 3 B EC(s 3 T EC(s 2 Q  
can be combined into EC(s 3 t 3 b 2 Q
```

"E<sub>C</sub>(s" is the portion of the printer command that all three commands share. In the combined command, "b" and "t" are now lowercase, while "Q" because it is the last character, remains uppercase to notify the printer the that the command is complete.

```
.....
```

Follow these rules for combining printer commands:

- Only printer commands that share the same two characters immediately following "E<sub>C</sub>" can be combined.
- All alphabetic characters within the combined printer commands must be in lowercase, except for the last character.
- The last character in the combined printer command must be in uppercase to notify the printer that the command is complete.
- Printer commands take effect as your software encounters them (from left to right). Combine printer commands in the order in which the printer should perform them.

### ***Using decimal or hexadecimal equivalents***

Your software application may require you to enter printer commands in decimal or hexadecimal form. The printer command for landscape page orientation is shown in three different forms:

Escape Sequence	E <sub>c</sub> & / 10
Decimal Equivalent	027 038 108 049 079
Hexadecimal Equivalent	1B 26 6C 31 4F

### ***HP PCL printer command summary***

The following table is a summary of HP PCL printer commands.

## HP PCL Printer Command Summary

Printer Feature	Printer Command	Decimal Equivalent	Hex. Equivalent
<b>Printer Control</b>			
Reset	E <sub>c</sub> E	027 069	1B 45
Self test	E <sub>c</sub> Z	027 122	1B 7A
<b>Paper Input Control (Media Source)</b>			
Eject page	E <sub>c</sub> & / 0H	027 038 108 048 072	1B 26 6C 30 48
Feed from tray	E <sub>c</sub> & / 1H	027 038 108 049 072	1B 26 6C 31 48
Manual load	E <sub>c</sub> & / 2H	027 038 108 050 072	1B 26 6C 32 48
<b>Print Mode</b>			
Unidirectional left to right	E <sub>c</sub> &k 0W	027 038 107 048 087	1B 26 6B 30 57
Bidirectional	E <sub>c</sub> &k1W	027 038 107 049 087	1B 26 6B 31 57
Unidirectional right to left	E <sub>c</sub> &k2W	027 038 107 050 087	1B 26 6B 32 57
<b>Underline</b>			
Single fixed	E <sub>c</sub> &d1D	027 038 100 049 068	1B 26 64 31 44
Double fixed	E <sub>c</sub> &d2D	027 038 100 050 068	1B 26 64 32 44
Single floating	E <sub>c</sub> &d3D	027 038 100 051 068	1B 26 64 33 44
Double floating	E <sub>c</sub> &d4D	027 038 100 052 068	1B 26 64 34 44
Turn off	E <sub>c</sub> &d@	027 038 100 064	1B 26 64 40
<b>Line Termination</b>			
CR ⇒ CR, LF ⇒ LF, FF ⇒ FF	E <sub>c</sub> &k0G	027 038 107 048 071	1B 26 6B 30 47
CR ⇒ CR+LF, LF ⇒ LF, FF ⇒ FF	E <sub>c</sub> &k1G	027 038 107 049 071	1B 26 6B 31 47
CR ⇒ CR, LF ⇒ CR + LF, FF ⇒ CR+FF	E <sub>c</sub> &k2G	027 038 107 050 071	1B 26 6B 32 47
CR ⇒ CR+LF, LF ⇒ CR+LF, FF ⇒ CR+FF	E <sub>c</sub> &k3G	027 038 107 051 071	1B 26 6B 33 47
<b>End-of-Line Wrap</b>			
Turn on	E <sub>c</sub> &s0C	027 038 115 048 067	1B 26 73 30 43
Turn off	E <sub>c</sub> &s1C	027 038 115 049 067	1B 26 73 31 43
<b>Transparent Print Mode</b>			
Number of bytes	E <sub>c</sub> &p#X[data]	027 038 112 #...# 088	1B 26 70 #...# 58
<b>Display Functions Mode</b>			
Turn on	E <sub>c</sub> Y	027 089	1B 59
Turn off	E <sub>c</sub> Z	027 090	1B 5A
<b>Enhancement Control</b>			
Line-by-line on	E <sub>c</sub> &k0F	027 038 107 048 070	1B 26 6B 30 46
Line-by-line off	E <sub>c</sub> &k1F	027 038 107 049 070	1B 26 6B 31 46

\*These printer commands are listed in the order in which they must be sent.  
#Indicates the numeric value field.

## HP PCL Printer Command Summary

Printer Feature	Printer Command	Decimal Equivalent	Hex. Equivalent
<b>Page Control</b>			
<b>Paper Size*</b>			
Default size	E <sub>c</sub> & / 0A	027 038 108 048 065	1B 26 6C 30 41
US Executive	E <sub>c</sub> & / 11A	027 038 108 049 065	1B 26 6C 31 41
US Letter	E <sub>c</sub> & / 2A	027 038 108 050 065	1B 26 6C 32 41
US Legal	E <sub>c</sub> & / 3A	027 038 108 051 065	1B 26 6C 33 41
A4	E <sub>c</sub> & / 26A	027 038 108 050 054 065	1B 26 6C 32 36 41
<b>Page Orientation*</b>			
Landscape	E <sub>c</sub> & / 10	027 038 108 049 079	1B 26 6C 31 4F
Portrait	E <sub>c</sub> & / 00	027 038 108 048 079	1B 26 6C 30 4F
<b>Line Spacing</b>			
Lines per inch no. of lines	E <sub>c</sub> & I #D	027 038 108 #...# 068	1B 26 6C #...# 44
<b>Page Length*</b>			
Number of lines	E <sub>c</sub> & / #P	027 038 108 #...# 080	1B 26 6C #...# 50
<b>Perforation Skip Mode*</b>			
On	E <sub>c</sub> & / 1L	027 038 108 049 076	1B 26 6C 31 4C
Off	E <sub>c</sub> & / 0L	027 038 108 048 076	1B 26 6C 30 4C
<b>Top Margin*</b>			
Number of lines	E <sub>c</sub> & / #E	027 038 108 #...# 069	1B 26 6C #...# 45
<b>Text Length*</b>			
Number of lines	E <sub>c</sub> & / #F	027 038 108 #...# 070	1B 26 6C #...# 46
<b>Side Margins*</b>			
Clear	E <sub>c</sub> 9	027 057	1B 39
Left (column no.)	E <sub>c</sub> &a#L	027 038 097 #...# 076	1B 26 61 #...# 4C
Right (column no.)	E <sub>c</sub> &a#M	027 038 097 #...# 077	1B 26 61 #...# 4D
<b>Text Scale Mode</b>			
Off	E <sub>c</sub> &k5W	027 038 107 053 087	1B 26 6B 35 57
On	E <sub>c</sub> &k6W	027 038 107 054 087	1B 26 6B 36 57
<b>Cursor Positioning</b>			
Horizontal motion index no. of 1/120th inch moves	E <sub>c</sub> &k#H	027 038 107 #...# 072	1B 26 6B #...# 48
Move to column no.	E <sub>c</sub> &a#C	027 038 097 #...# 067	1B 26 61 #...# 43
Horizontal no. (decipoints)	E <sub>c</sub> &a#H	027 038 097 #...# 072	1B 26 61 #...# 48
Horizontal no. (dots)	E <sub>c</sub> *p#X	027 042 112 #...# 088	1B 2A 70 #...# 58
Vertical motion index no. of 1/48 inch moves	E <sub>c</sub> & / #C	027 038 108 #...# 067	1B 26 6C #...# 43
Move to row no.	E <sub>c</sub> &a#R	027 038 097 #...# 082	1B 26 61 #...# 52
Vertical no. (decipoints)	E <sub>c</sub> &a#V	027 038 097 #...# 086	1B 26 61 #...# 56
Vertical no. (dots)	E <sub>c</sub> *p#Y	027 042 112 #...# 089	1B 2A 70 #...# 59

\*These printer commands are listed in the order in which they must be sent.

#Indicates the numeric value field

## HP PCL Printer Command Summary

Printer Feature	Printer Command	Decimal Equivalent	Hex. Equivalent
<b>Font Selection</b>			
<b>Character Set*</b>			
PC-8	E <sub>c</sub> (10U	027 040 049 048 085	1B 28 31 30 55
HP Roman8	E <sub>c</sub> (8U	027 040 056 085	1B 28 38 55
PC-8 Danish/Norwegian	E <sub>c</sub> (11U	027 040 049 049 085	1B 28 31 31 55
PC-850	E <sub>c</sub> (12U	027 040 049 050 085	1B 28 31 32 55
ECMA-94 Latin 1	E <sub>c</sub> (0N	027 040 048 078	1B 28 30 4E
German (ISO 21)	E <sub>c</sub> (1G	027 040 049 071	1B 28 31 47
French (ISO 69)	E <sub>c</sub> (1F	027 040 049 070	1B 28 31 46
Italian (ISO 15)	E <sub>c</sub> (0I	027 040 048 073	1B 28 30 49
Spanish (ISO 17)	E <sub>c</sub> (2S	027 040 050 083	1B 28 32 53
Swedish Names (ISO 11)	E <sub>c</sub> (0S	027 040 048 083	1B 28 30 53
Swedish (ISO 10)	E <sub>c</sub> (3S	027 040 051 083	1B 28 33 53
Norwegian1 (ISO 60)	E <sub>c</sub> (0D	027 040 048 068	1B 28 30 44
Norwegian2 (ISO 61)	E <sub>c</sub> (1D	027 040 049 068	1B 28 31 44
Portuguese (ISO 16)	E <sub>c</sub> (4S	027 040 052 083	1B 28 34 53
United Kingdom (ISO 4)	E <sub>c</sub> (1E	027 040 049 069	1B 28 31 45
ANSI ASCII (ISO 6)	E <sub>c</sub> (0U	027 040 048 085	1B 28 30 55
JIS ASCII	E <sub>c</sub> (0K	027 040 048 075	1B 28 30 4B
HP Legal	E <sub>c</sub> (1U	027 040 049 085	1B 28 31 55
ISO IRV	E <sub>c</sub> (2U	027 040 051 085	1B 28 32 55
<b>Spacing*</b>			
Proportional	E <sub>c</sub> (s1P	027 040 115 049 080	1B 28 73 31 50
Fixed	E <sub>c</sub> (s0P	027 040 115 048 080	1B 28 73 30 50
<b>Print Pitch*</b>			
Number of characters per inch	E <sub>c</sub> (s#H	027 040 115 #...# 072	1B 28 73 #...# 48
<b>Point Size (Character Height)*</b>			
Number of 1/72nd inch	E <sub>c</sub> (s#V	027 040 115 #...# 086	1B 28 73 #...# 56
<b>Style*</b>			
Upright	E <sub>c</sub> (s0S	027 040 115 048 083	1B 28 73 30 53
Italic	E <sub>c</sub> (s1S	027 040 115 049 083	1B 28 73 31 53
<b>Stroke Weight*</b>			
Bold	E <sub>c</sub> (s3B	027 040 115 051 066	1B 28 73 33 42
Normal	E <sub>c</sub> (s0B	027 040 115 048 066	1B 28 73 30 42
Extra bold (optional)	E <sub>c</sub> (s7B	027 040 115 055 066	1B 28 73 37 42

\*These printer commands are listed in the order in which they must be sent.  
#Indicates the numeric value field



## HP PCL Printer Command Summary

Printer Feature	Printer Command	Decimal Equivalent	Hex. Equivalent
<b>Typeface*</b>			
Courier	E <sub>c</sub> {s3T	027 040 115 051 084	1B 28 73 33 54
CG Times	E <sub>c</sub> {s4101T	027 040 115 052 049 048 049 084	1B 28 73 34 31 30 31 54
Letter Gothic	E <sub>c</sub> {s6T	027 040 115 054 084	1B 28 73 36 54
Univers	E <sub>c</sub> {s52T	027 040 115 053 050 084	1B 28 73 35 32 54
<b>Print Quality</b>			
Letter	E <sub>c</sub> {s2Q	027 040 115 050 081	1B 28 73 32 51
Draft	E <sub>c</sub> {s1Q	027 040 115 049 081	1B 28 73 31 51
<b>Placement</b>			
Superscript	E <sub>c</sub> {s+1U	027 040 115 043 085	1B 28 73 2B 31 55
Normal	E <sub>c</sub> {s+0U	027 040 115 048 085	1B 28 73 30 55
Subscript	E <sub>c</sub> {s-1U	027 040 115 045 049 085	1B 28 73 2D 31 55
<b>Primary Font Designators</b>			
Primary default	E <sub>c</sub> {#@	027 040 #...# 064	1B 28 #...# 40
Default character set	E <sub>c</sub> {0@	027 040 048 064	1B 28 30 40
Current primary character set	E <sub>c</sub> {2@	027 040 050 064	1B 28 32 40
Default font	E <sub>c</sub> {3@	027 040 051 064	1B 29 #...# 58
<b>Secondary Font Designators</b>			
Secondary default	E <sub>c</sub> )#@	027 041 #...# 064	1B 29 #...# 40
Default chr. set	E <sub>c</sub> )0@	027 041 048 064	1B 29 30 40
Default primary chr. set	E <sub>c</sub> )1@	027 041 049 064	1B 29 31 40
Current primary chr. set	E <sub>c</sub> )2@	027 041 050 064	1B 29 32 40
Default secondary font	E <sub>c</sub> )3@	027 041 051 064	1B 29 33 40

\*These printer commands are listed in the order in which they must be sent.

#Indicates the numeric value field.

## HP PCL Printer Command Summary

Printer Feature	Printer Command	Decimal Equivalent	Hex. Equivalent
<b>Raster Graphics</b>			
<b>Start Raster Graphics</b>			
At left most position	E <sub>c</sub> *r0A	027 042 114 048 065	1B 2A 72 30 41
Current cursor position	E <sub>c</sub> *r1A	027 042 114 049 065	1B 2A 72 31 41
<b>End Raster Graphics</b>			
End Graphics	E <sub>c</sub> *rC	027 042 114 067	1B 2A 72 43
<b>Resolution</b>			
75 dots per inch	E <sub>c</sub> *t75R	027 042 116 055 053 082	1B 2A 74 37 35 52
100 dots per inch	E <sub>c</sub> *t100R	027 042 116 049 048 048 082	1B 2A 74 31 30 30 52
150 dots per inch	E <sub>c</sub> *t150R	027 042 116 049 053 048 082	1B 2A 74 31 35 30 52
300 dots per inch	E <sub>c</sub> *t300R	027 042 116 051 048 048 082	1B 2A 74 33 30 30 52
<b>Set Raster Graphics Width</b>			
Number of pixels	E <sub>c</sub> *r#S	027 042 114 #...# 083	1B 2A 72 #...# 53
<b>Set Raster Graphics Compression</b>			
Method 0	E <sub>c</sub> *b0M	027 042 098 048 077	1B 2A 62 30 4D
Method 1	E <sub>c</sub> *b1M	027 042 098 049 077	1B 2A 62 31 4D
Method 2	E <sub>c</sub> *b2M	027 042 098 050 077	1B 2A 62 32 4D
Method 3	E <sub>c</sub> *b3M	027 042 098 051 077	1B 2A 62 33 4D
Method 9	E <sub>c</sub> *b9M	027 042 098 057 077	1B 2A 62 39 4D
Seed Row Source	E <sub>c</sub> *b#S	027 042 098 #...# 083	1B 2A 62 #...# 53
<b>Set Graphics Print mode</b>			
Default	E <sub>c</sub> *p0N	027 042 112 048 078	1B 2A 70 30 4E
Print bidirectionally	E <sub>c</sub> *p1N	027 042 112 049 078	1B 2A 70 31 4E
Print left to right	E <sub>c</sub> *p2N	027 042 112 050 078	1B 2A 70 32 4E
Print right to left	E <sub>c</sub> *p3N	027 042 112 051 078	1B 2A 70 33 4E
Conditionally print bidirectionally	E <sub>c</sub> *p4N	027 042 112 052 078	1B 2A 70 39 4E
<b>Transfer Raster Graphics</b>			
Number of bytes	E <sub>c</sub> *b#W[data]	027 042 098 #...# 087 data	1B 2A 62 #...# 57 data
<b>Temporary Horizontal Offset for Raster Row (X Offset)</b>			
Number of dots	E <sub>c</sub> *b#X	027 042 098 #...# 088	1B 2A 62 #...# 58
<b>Relative Vertical Pixel Movement (formerly know as Y Offset)</b>			
Number of dots	E <sub>c</sub> *b#Y	027 042 098 #...# 089	1B 2A 62 #...# 59
<b>Set Graphics Quality</b>			
Quality draft	E <sub>c</sub> *r1Q	027 042 114 049 081	1B 2A 72 31 51
Similar to letter quality	E <sub>c</sub> *r2Q	027 042 114 050 081	1B 2A 72 32 51
<b>Raster Graphics Shingling</b>			
No shingling	E <sub>c</sub> *o0Q	027 042 111 048 081	1B 2A 6F 30 51
50 percent shingling	E <sub>c</sub> *o1Q	027 042 111 049 081	1B 2A 6F 31 51
25 percent shingling	E <sub>c</sub> *o2Q	027 042 111 050 081	1B 2A 6F 32 51

\*These printer commands are listed in the order in which they must be sent.

#Indicates the numeric value field.

### ***HP PCL ASCII control codes***

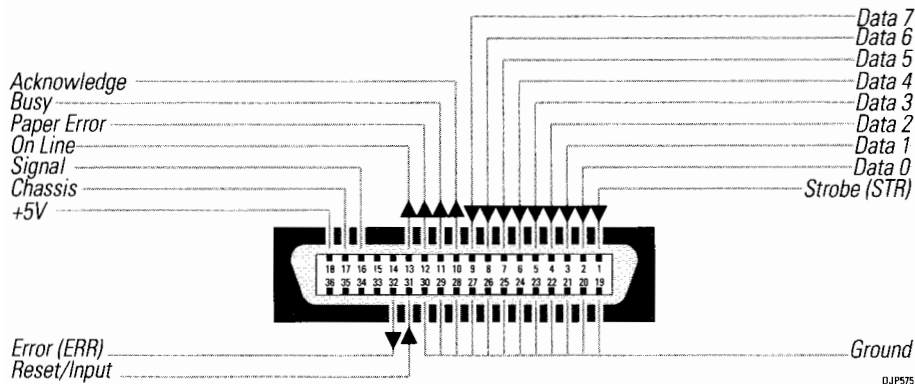
A control code is a character that starts a printer function. In this reference manual, control codes begin with CTRL. To send CTRL, press the *Control* key on the computer keyboard while typing the character. This key is labeled on your keyboard as CTRL, CNTL, or CTL. In BASIC, CTRL is CHR\$(n), where n = 0-32. For example, CTRL N is CHR\$(14) and E<sub>C</sub> is CHR\$(27). This table lists HP PCL control codes that the printer recognizes. The Keystroke column lists the letter to type with the CTRL key to send a control code. The “current print position” in the Description column is the position the next character prints.

<b>Code Names</b>	<b>Symbol</b>	<b>Description</b>	<b>Value</b>	<b>Value</b>	<b>Keystroke</b>
Backspace	B <sub>S</sub>	Moves the current print position one character position to the left.	08	08	CTRL H
Horizontal Tab	H <sub>T</sub>	Moves to the next predefined tab position. (Tabs are located every eighth character position, beginning at the left margin).	09	09	CTRL I
Line Feed	L <sub>F</sub>	Advances the media one line at the current line spacing	10	0A	CTRL J
Form Feed	F <sub>F</sub>	Advances the media to the next top-of-form. Top-of-form is the first line of printing on the next page.	12	0C	CTRL L
Carriage Return	C <sub>R</sub>	Moves the current print position to the left margin. Does not advance paper.	13	0D	CTRL M
Shift Out	S <sub>O</sub>	Selects the currently designated secondary font for use	14	0E	CTRL N
Shift In	S <sub>I</sub>	Selects the currently designated primary font for use.	15	0F	CTRL O
Escape	E <sub>C</sub>	Indicates to the printer that the characters immediately following are part of a printer command.	27	27	CTRL [
Space	S <sub>p</sub>	Moves the current print position one character to the right.	32	20	



## Centronics Parallel Interface

The Centronics parallel interface port is a standard 36-pin Amphenol type with two metal-wire retaining clips.



Pin No.	Signal	Description
1	Strobe <sup>1</sup>	A low pulse causes the printer to read one byte of data.
2 - 9	Data 0 - Data 7	These pins are the data lines. Data 0 is the least significant bit (LSB).
10	Acknowledge <sup>1</sup>	The printer sends a low pulse to indicate that it has accepted a byte of data and is ready for more data.
11	Busy	The printer sends a high logic level to indicate to the host that it cannot receive data due to data entry, a full buffer, or error status.
12	Paper Error	The printer sends a high logic level to indicate to the computer that it is out of paper.
13	Ready	The printer sends a high logic level to indicate to the computer that it is in an online condition.
16	Gnd	Signal interface ground.
17	Chassis Gnd	Chassis ground.
18	+5 V	The printer outputs a +5 volt high logic level through a 2.2K ohm resistor.
19 - 30	Sig Gnd	These pins are tied to signal ground.
31	Reset/Input Clean	A low pulse sent by the computer resets the printer and clears the printer's input buffer. The printer does not work when this line is held low.
32	Error <sup>1</sup>	The printer sends a low logic level to the computer to indicate that it is in an error state.

<sup>1</sup>Indicates active low





## **Ordering Information**

The Standard Unit .....	14-2
Ordering Supplies and Accessories .....	14-3
Supplies and Accessories List.....	14-4

## **The Standard Unit**

The standard unit includes:

- one HP DeskJet Portable printer
- one black print cartridge
- one power module
- one Centronics parallel interface cable
- one manual kit containing the user's guide
- one disk envelope containing printer software.

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## Ordering Supplies and Accessories

To order printer supplies or accessories, call your HP Customer Information Center or call the HP Direct Marketing Division at the numbers given on the inside front cover of this user's guide.

If your dealer is out of stock, call HP DIRECT for fast shipping service:

**Within the U.S.:** 1-800-538-8787

**Canada** (Toronto): 416-671-8383;  
(Ontario/Quebec): 1-800-387-3417;  
(Other Provinces): 1-800-387-3154

Write or call:

**Europe/Africa/Middle East:** (31) 20/547 999,  
Hewlett-Packard S.A., Central Mailing Department,  
PO. Box 529, 1180 Amstelveen, The Netherlands

**Australia/ New Zealand:** (03) 895-2895,  
China Resources Bldg., 26 Harbour Road, Wanchai,  
Hong Kong

**Latin America:** (525)326-40-00,  
Latin American Region Headquarters, Monte  
Pelyoux 111 Colonia Lomas de Chapultepec,  
Codigo Postal 11000, Mexico, D.F.

**Japan:** (03) 331-6111,  
Yokogawa-Hewlett-Packard Ltd. 29-21, Takaido-  
Higashi 3-chome, Suginami-ku, Tokyo 168

**Elsewhere in the World:** Hewlett-Packard Company,  
Intercontinental Headquarters, 3495 Deer Creek  
Road, Palo Alto, CA 94304, U.S.A.



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## Supplies and Accessories List

<b>Supply/Accessory</b>	<b>HP Reorder Number</b>
Inkjet Print Cartridge (black)	51608A
<b>Media</b>	
LX JetSeries Transparency Film (U.S. letter)	51636F
LX JetSeries Transparency Film (European A4)	51636G
<b>Power Module</b>	
U.S., Canada, Korea, Taiwan, Mexico 120V/60Hz	C2614-80003
Europe (except U.K. ) 220V/50Hz	C2614-80005
Japan, 100V/50Hz/60Hz	C2613-80010
U.K., 240V/50Hz	C2614-80006
South Africa, 220V/50Hz	C2614-80007
Australia, 240V/50Hz	C2614-80004
China, 220V/50Hz	C2614-80033
<b>Misc. Accessories</b>	
Cut-sheet feeder	C3005A
Worldwide Rapid Recharger	
U.S.	C3004A
Japan	C3060A
U.K.	C3062A
Europe	C3063A
Australia, China, Uruguay	C3064A
South Africa	C3065A
Rechargeable Battery	
U.S.	C3003A
Japan	C3058A
Europe	C3059A
Carrying case (for printer and notebook PC)	C3050A
Replacement parallel I/O cable	C3061A
<b>HP DeskJet Portable Printer User's Guide Kits</b>	
English User's Guide Kit	C2614-60003
International English User's Kit	C2614-60004
Danish User's Guide Kit	C2614-60005
Dutch User's Guide Kit	C2614-60006
Finnish User's Guide Kit	C2614-60007
French User's Guide Kit	C2614-60008
German User's Guide Kit	C2614-60009
Italian User's Guide Kit	C2614-60010
Norwegian User's Guide Kit	C2614-60011
Portuguese User's Guide Kit	C2614-60012
Spanish User's Guide Kit	C2614-60013
Swedish User's Guide Kit	C2614-60014

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# Glossary

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**ASCII**

American Standard Code for Information Interchange. An 8-bit code that uses 7 bits to represent character information such as letters, punctuation, symbols, and control characters. The eighth bit can be used for parity.

**battery gauge**

A gauge printed on the configuration menu. When you activate the configuration menu, the configuration pointer on the print cartridge cradle points to the current battery charge level.

**bit**

Binary digit; a bit represents an “on” or “off” electrical condition. It is the smallest unit of digital information used by a computer or peripheral device.

**bitmapped font**

A printer font or screen font that is made of dot-by-dot patterns.

**buffer**

A segment of the computer’s or printer’s memory where information for input or output is held until it can be processed.

**built-in font**

See **internal fonts**.

**byte**

A unit of information consisting of eight bits. See **bit**.

**busy**

The printer is busy when it is receiving information from the computer.

**cable**

The insulated wires that carry information back and forth among devices.

**Centronics parallel interface**

A standard for connecting printers and other peripheral devices to a computer. Unlike a serial interface, a parallel interface transmits a full byte of data at one time.

**character**

Printable letters and symbols.

**character height**

The height of a printed uppercase character defined in points. One point is  $\frac{1}{72}$  inch.

**characters per inch**

See **cpi**.

**characters per second**

See **cps**.

**character set**

A unique subgrouping of all the available characters in a font. Each character set is defined for a specific purpose. Character sets are also called symbol sets.

**clean print cartridge**

To restore print quality of the print cartridge.

**configuration**

The process of changing printer settings to allow the printer to communicate properly with a computer. Hardware configuration is changed using the configuration menu. Software configuration is changed by entering new data or setup strings.

**configuration menu**

The HP DeskJet Portable printer has a configuration menu inside the print cartridge compartment. Select default printer settings, such as page length or default character set, from the configuration menu using the pointer on the print cartridge cradle.

**control code**

An instruction that tells the printer to perform a specific function.

**control panel**

See **printer control panel**.

**cpi**

Characters per inch, also called pitch. CPI describes the number of characters that print within 1 horizontal inch. For example, 10 pitch printing yields 10 characters per inch.

**cps**

Characters per second (cps) refers to printing speed. It is used in describing the number of characters that will print within one horizontal inch per second.

**data communications**

The transfer of information between the computer and peripheral device, such as a printer.

**density**

See **print density**.

**dots per inch**

Dots per inch. DPI describes the number of ink dots printed within one horizontal inch. Also known as print resolution.

**dpi**

See **dots per inch**.

**draft quality**

Draft quality printing saves ink and allows you to print a “draft” document faster. Print speed for draft quality mode is 240 cps at 10 cpi.

**drivers**

See **Printer Driver**.

**embedded printer commands**

Printer commands you type into a software file to instruct the printer to change its printing characteristics, such as to change fonts or to underline text.

**escape character**

The escape character;  $E_C$  is a special character used to identify a printer command to the computer. This character is usually not a printable character. Use it as a command code for the printer.

**escape sequence**

See **printer command**.

**factory default**

The settings that are selected on the printer at the factory. These settings are in use unless you override them through the printer control panel or by sending printer commands.

**fixed-pitch spacing**

A font that uses equal spacing between each character. Each character, narrow or wide, takes up the same amount of space on a line. A fixed-pitch font is also known as a monospaced font.

**font**

A collection of characters with a consistent size and style. Internal fonts are provided in the printer. If you use Microsoft Windows, you can use scalable fonts.

**font characteristics**

The characteristics that determine what a printed font looks like. These characteristics include orientation, character height, style, stroke weight, and typeface.

**font scaling**

A method of adjusting the font to produce high-quality printed text over a range of print sizes.

**grayscale**

Representing color in black and white. Different colors and saturation levels of color appear as different shades of gray.

**handshaking**

The method of communication between a computer and a peripheral device. The handshake between devices ensures correct and complete information transfer.

**hardware**

The electronic components of the computer and printer.

**hexadecimal**

Numbers represented to the base 16 (digits 0-9 and A,B,C,D,E,F). Referred to as “hex.”

**interface cable**

The information cable that connects a printer or other device to a computer.

**interface connector**

The connectors at the ends of the interface cable. These connectors are inserted into the interface ports on the computer and printer.

**interface port**

The connector on the end of the printer where you connect an interface cable. The printer has a parallel interface port.

**internal fonts**

The fonts that reside in the printer. The printer’s internal fonts are also called resident or built-in fonts.

**kerning**

The adjustment of spacing between proportionally spaced characters in order to make them visually consistent, balanced, and attractive.

**landscape orientation**

Landscape orientation refers to printing across the length of the page (as opposed to portrait orientation, which is printing across the width of the page). The term landscape is derived from pictures of landscape, which are usually horizontal in format.



**letter quality**

Letter quality printing provides you the best print quality for DOS applications. Print speed for letter quality mode is 240 cps at 10 cpi.

**lines per inch**

See **lpi**.

**lpi**

Lines per inch describes the number of lines that print within 1 vertical inch. Most printing has 6 or 8 lpi.

**media jam**

When media gets stuck somewhere along the paper path.

**off-line**

When the printer is off-line, printing is suspended. To take the printer off-line, press the *On line* button. The Online indicator turns off when the printer is off-line.

**online**

When the printer is online, it is ready to print. When the Online indicator is on, the printer is online.

**outline fonts**

Outline fonts are often referred to as scalable printer fonts. See **scalable fonts**.

**page orientation**

The direction of print on the page. Printing across the width of a page is known as portrait orientation. Printing across the length of a page is known as landscape orientation.

See also **portrait orientation** and **landscape orientation**.

**paper jam**

See **media jam**.

**PCL commands**

The HP PCL Level 3 printer language. The PCL printer language is a standard developed by Hewlett-Packard to ensure compatibility between current and future PCL printers. PCL commands provide access to printer features.

**perforation skip area**

The area outside the text area but within the physical page. The HP DeskJet Portable printer does not print characters in this area. Printing beyond the text area prints on the next page.

See "**Using Perforation Skip Mode**" in chapter 1 of this manual.

**pitch**

The number of characters printed in one horizontal inch. Also known as cpi.

**point size**

One point is  $\frac{1}{72}$  inch. Character height is given in points. For example, 12 point type is  $\frac{1}{6}$  inch tall.

**portrait orientation**

Printing across the width of the page (as opposed to landscape orientation, which is printing across the length of a page). The term is derived from portraits of people, which are usually vertical in format. See **page orientation** and **landscape orientation**.

**port**

See **interface port**.

**power socket**

The socket on the end of the printer into which you attach the power module.

**primary font**

In HP PCL printer language, you can define two fonts internally at the same time. Access to the primary font is via the control code  $\text{\$}$  (Shift In) and access to a secondary font is via the control code  $\text{\$}$  (Shift Out).

**print cartridge**

A removable cartridge that contains the ink used for printing.

**print density**

The relative darkness of print on the page. Very dense print appears to be totally black. Less dense print looks lighter, and solid filled areas may not be totally black.

**print quality**

The quality of print, such as draft or letter quality.

See **draft quality** and **letter quality**.

**print resolution**

A measure of image sharpness expressed as dots per inch (dpi). See **dots per inch**.

**printer commands**

Printer commands sent to change printing variables, such as page orientation, margins, and font selection. Printer commands are also called escape sequences.

**printer control panel**

The area on the right top corner of the printer that includes the buttons you use to manually change some printer settings.

**printer driver**

A file that provides information the computer needs to communicate with a printer. Each software application requires a specific printer driver.

**proportional spacing**

Spacing according to the width of each character. This variable spacing between characters closes up awkward space and makes text easier to read.

**quality**

See **print quality**.

**resident fonts**

See **internal fonts**.

**resolution**

The number of dots available to represent graphic detail in a given area. On a computer monitor, resolution is measured in pixels per inch. In print, resolution is measured as dots per inch (dpi).

See also **print resolution**.

**sans serif**

A font that does not have horizontal lines at the tops and bottoms of its characters. Helvetica is a sans serif font.

**scalable fonts**

The actual outlines of the characters and symbols of a font stored in mathematical form. The software scales the outlines to the correct size.

**screen fonts**

Bitmapped images of printer fonts which can be created from scalable fonts.

Screen fonts give a close approximation on the screen of the printed text. Screen fonts do use system memory and hard disk space.

**secondary font**

See **primary font**.

**serif**

A font having horizontal lines at the tops and bottoms of its characters. Courier is an example of a serif font.

**software application**

Any word processing, graphics, programming or special application package that you use on your computer system.

**spacing**

All fonts are designed with either fixed or proportional spacing. When a font uses fixed-pitch spacing, all character cells are the same width. When a font uses proportional spacing, character cell width depends on the character size.

**stroke weight**

Bold, medium, or light print density, or darkness.

**style**

In terms of font styles, this refers either upright or italic printing.

**top of form**

The line of the page where printing can begin; the first line after the top margin.

**tof**

See **top of form**.

**troubleshooting**

The process of determining the cause of a printer problem. This method steps through a list of symptoms and suggested remedies until the solution is found.

**typeface**

Typeface refers to the printed design of characters. For instance, Courier, Helvetica, and Letter Gothic typefaces all print characters of a different design.

# Index

## Numerics

- 7-bit character sets 13-8
- 8-bit character sets 13-9

## A

- Accessories and supplies 14-4
- Advancing paper 2-8
- ASCII Glossary-1
- ASCII Decimal-Hex
  - conversion table 13-17
- ASCII Decimal-Hex conversion table 13-17
- Automatic power off 6-3

## B

- Battery
  - charging 6-8
  - checking the charge level 6-11
  - compatible 6-2
  - discharging 6-13
  - handling 6-5
  - installing 1-5
  - maintaining performance 6-13
  - replacing 6-6
  - using 6-1
- Battery charge level
  - checking 6-11
- Battery control menu group 8-3
- Battery gauge 6-11
- Battery management 6-3
- Battery operation 6-2
  - automatic power off 6-3
  - battery management 6-3
  - low battery 6-3
  - manually selecting quick-charge mode 6-9
  - print speed 6-2
  - sleep mode 6-2
- Battery performance
  - maintaining 6-13
- Battery problems 9-12
- Bit Glossary-1
- Bitmapped font Glossary-1
- Bitmapped fonts 12-6
- Bold font 12-5
- Brush location 5-7
- Buffer Glossary-1
- Built-in font Glossary-1
- Busy Glossary-1
- Busy Indicator 2-6
- Button functions
  - clean print cartridge 2-5
  - printer self test 2-5
  - reset to factory defaults 2-5

## Buttons

- configuration mode functions 8-6
- control panel 2-4
- Draft 2-4
- Font 2-4
- LF/FF 2-4
- Online 2-4
- Power 2-4, 8-6
- Settings 2-4
- Byte Glossary-1

## C

- Caring for your printer 10-1
- Carriage return Definition menu group 8-5
- Centronics parallel interface 13-31, Glossary-1
- CG Times font 12-11
  - using 12-11
- Change Pen indicator 2-7
- Changing a print cartridge 5-2
- Character Glossary-1
- Character height 12-4, Glossary-1
- Character set menu group 8-4
- Character sets 12-5, 13-8
  - 7-bit 13-8
  - 8-bit 13-9
  - ECMA-94 Latin 1 13-15
  - HP Legal 13-16
  - HP Roman8 13-11
  - ISO substitution table 13-14
  - PC-8 13-10
  - PC-8 Danish/ Norwegian 13-12
  - PC-850 13-13
  - types 13-8
- Characters per inch Glossary-1
- Charge indicator 2-6
- Charging the battery 6-8
- Checking battery level
  - using configuration menu 6-11
  - using printer self test 6-12
- Checking the configuration 8-9
  - configuration menu 8-9
  - printer self test 8-9
- Choosing media 4-3
- Cleaning exterior of printer 10-3
- Cleaning print cartridge electrical contacts Print 5-7
- Cleaning the pinch plate 10-2
- Cleaning the platen 10-2
- Cleaning the print cartridge 5-6
- Clearing paper jams 9-13
- Communicating with the computer
  - establishing 1-14
  - verifying 1-14
- Compressed Indicator 2-6

- Configuration mode buttons
  - exit 8-6
  - group 8-6
  - left and right pointers 8-6
  - power 8-6
  - select 8-6
- Configuration menu 8-3
  - battery control group 8-3
  - carriage return definition group 8-5
  - character set group 8-4
  - checking battery level 6-11
  - media size group 8-5
  - perforation skip group 8-5
  - text scale group 8-4
- Configuration mode button functions 8-6
- Configuration pointer 8-2
- Configuring the printer 8-1, 8-7
- Connecting the power module 1-8
- Connecting the printer interface cable 1-7
- Control panel
  - button descriptions 2-4
  - indicators 2-6
  - using 2-3
- Courier font
  - using 12-11
- cpi Glossary-1
- cps Glossary-1
- Customer support 9-21
- Customer telephone support 9-22
- Cut-sheet feeder 7-2
  - loading paper 7-9
  - loading transparencies 7-9
  - parts 7-3
  - reloading 7-11
  - removing printer 7-8
  - setting up 7-4
  - using 7-1

## D

- Decimal-Hex-ASCII
  - conversion table 13-17
- Default character set 12-5
- Default font 2-9, 12-8
- Default media size 11-2
- Default page orientation 11-3
- Discharging the battery 6-13
- DOS applications
  - using 3-4
- Draft button 2-4
- Draft indicator 2-6
- Draft quality 12-5

## E

- ECMA-94 Latin 1 character set 13-15
- Eight-bit character sets 13-9
  - environment
    - operating 1-3
- Error light indications 9-4
- Exit button 8-6

- expanding font selection 12-12

## F

- Fixed-pitch fonts 12-9
- Fixed-pitch spacing 12-3
- Font
  - bitmapped 12-6, Glossary-1
  - bold 12-5
  - built-in Glossary-1
  - character set 12-5
  - choosing internal 12-11
  - default 12-8
  - default character set 12-5
  - definition 12-2
  - expanding your selection 12-12
  - fixed-pitch 12-9
  - guidelines for using 12-11
  - internal 12-8, Glossary-2
  - methods of selecting 12-10
  - orientation 12-6
  - pitch 12-3
  - point size 12-4
  - print quality 12-5
  - sans serif 12-2
  - scalable 12-7, 12-9
  - screen 12-7
  - selecting internal 2-9
  - serif 12-2
  - stroke weight 12-5
  - style 12-5
- Font button 2-4
- Font command priorities 13-21
- Font Terminology 12-2

## G

- Group button 8-6

## H

- Hex-Decimal-ASCII
  - conversion table 13-17
- HP Customer Information Center i, 9-22
- HP Legal character set 13-16
- HP Personal Peripherals Assist 9-22
- HP Roman8 character set 13-11

## I

- Improving print quality 9-7

## Indicators

- Busy 2-6
- Change Pen 2-7
- Charge 2-6
- Compressed 2-6
- control panel 2-6
- Draft 2-6
- Landscape 2-6
- Menu 2-7
- On line 2-6
- Power 2-6

## Ink

- saving 12-5

## Installing printer drivers 3-4

## Installing the battery 1-5

## Installing the print cartridge 1-9

## Interface

- Centronics parallel Glossary-1

## Interface cable

- connecting 1-7

## Internal fonts 12-8

- selecting 2-9

## International Standards Organization 13-8

## ISO character sets 13-8

## ISO substitution table 13-14

## K

## Kerning 12-4

## L

## Labels

- printing 7-12
- recommended 4-4

## Landscape printing options 11-6

## Landscape indicator 2-6

## Landscape orientation

- lines of text per page 11-7

## Landscape printing 11-6

- graphics 11-6
- lines of text per page 11-7
- underlining 11-6

## Left and right pointer buttons 8-6

## Letter Gothic font

- using 12-11

## Letter quality 12-5

## Letterhead paper

- loading 4-6

## LF/FF button

- definition 2-4

## Line spacing 11-8

## Loading letterhead paper 4-6

## Loading media manually 7-13

## Loading paper in the cut-sheet feeder 7-9

## Loading paper in the printer 4-5

## Loading special media 4-6

## Loading transparencies 4-6

## Low battery operation 6-3

## M

## Maintaining print cartridges 5-6

## Margins 11-8

- bottom 11-8
- left and right 11-8
- top 11-8

## Media

- advancing 2-8
- default size 11-2
- loading manually 7-13
- ordering information 14-4
- recommended types 4-4
- selecting 4-3
- types to avoid 4-5
- using 4-1

## Media handling problems 9-10

## Media size 11-2

## Media size menu group 8-5

## Memory

- buffer Glossary-1

## Menu indicator 2-7

## Microsoft Windows

- using 3-3

## Minimizing paper skew 7-11

## N

## No response from printer 9-2

## O

## On line indicator 2-6

## Online button 2-4

## Operating environment 1-3

## Ordering information 14-1

## Orientation

- default page 11-3
- page 11-3
- selecting 11-3



## P

## Page formatting problems

- avoiding 11-11

## Page orientation 11-3

## Page setup 11-1

## Paper

- advancing 2-8
- cotton bond 4-3
- default size 11-2
- loading in printer 4-5
- minimizing skew 7-11
- print side 4-3
- recommended rag content 4-4
- recommended types 4-4
- reloading cut-sheet feeder 7-11
- using plain copier 4-3
- weight recommendations 4-4

## Paper jams

- clearing 9-13

- Paper path 4-2
  - Paper size 11-2
  - Parallel interface Glossary-1
  - Pausing the printer 2-8
  - PC-8 character set 13-10
  - PC-8 Danish/Norwegian character set 13-12
  - PC-850 character set 13-13
  - Perforation skip menu group 8-5
  - Perforation skip mode 11-9
    - default setting 11-9
  - Pinch plate
    - cleaning 10-2
  - Pitch 12-3
  - Platen
    - cleaning 10-2
  - Point size 12-4
  - Power button 2-4, 8-6
  - Power indicator 2-6
  - Power module
    - connecting 1-8
    - ordering information 14-4
  - Print cartridge
    - cleaning 5-6
    - cleaning electrical contacts 5-7
    - installing 1-9
    - maintaining 5-6
    - ordering information 14-4
    - problems 9-7, 9-20
    - removing dried ink from 5-8
    - replacing
      - saving ink 12-5
      - using 5-1
  - Print quality 12-5
    - improving 9-7
    - problems 9-7
    - selecting 2-9
  - Print speed in battery mode 6-2
  - Printable area 11-4
    - landscape mode 11-5
    - portrait mode 11-5
  - Printer
    - caring for 10-1
    - cleaning 10-2
    - control panel 2-3
    - maintenance 10-2
    - preparing for storing 10-4
    - preparing for transporting 10-4
    - returning for service 9-21
    - supplies and accessories 14-4
  - Printer commands 13-19
    - basics 13-20
    - combining 13-23
    - font priorities 13-21
    - HP PCL ASCII control codes 13-30
    - HP PCL summary 13-24
    - using 3-6
  - Printer configuration
    - checking 8-9
  - Printer driver
    - alternate Windows driver 3-3
    - installing 3-4
    - obtaining a DOS driver 3-4
    - selecting 3-4
    - using 3-2
  - Printer features 2-2
    - methods of selecting 2-10
  - Printer fonts 12-1
  - Printer self test
    - checking battery level 6-12
    - description 9-16
    - printing 1-12, 9-18
    - problems 9-19
  - Printing a printer self test 1-12, 9-18
  - Printing labels 7-12
  - Printing multiple-page documents 7-14
  - Printing problems 9-9
  - Printing transparencies 4-6
  - Proportional spacing 12-3
- Q**
- Quality
    - print 12-5
  - quick-charge mode
    - manually selecting 6-9
- R**
- Recommended media types 4-4
  - Recommended paper types 4-4
  - Regulatory notices 13-5
  - Reloading paper 7-11
  - Removing dried ink from print cartridge 5-8
  - Removing print cartridge 5-2
  - Removing printer from cut-sheet feeder 7-8
  - Replacing the battery 6-6
  - Replacing the print cartridge 5-2
  - Resetting printer to factory defaults 8-10
  - Returning printer for service 9-21
- S**
- Sans serif font 12-2
  - Sans serif typeface 12-2
  - Saving ink 12-5
  - Scalable fonts 12-7
  - Scalable printer fonts 12-9
  - Screen fonts 12-7
  - Select button 8-6
  - Selecting Fonts 12-10
  - Selecting internal fonts 2-9
  - Selecting landscape orientation 11-3
  - Selecting media 4-3
  - Selecting print quality 2-9
  - Serif font 12-2
  - Serif typeface 12-2
  - Setting up pages 11-1
  - Setting up the cut-sheet feeder 7-4
  - Setting up your printer 1-1

- Setting up your software 3-2
- Settings button
  - definition 2-4
- Seven-bit character sets 13-8
- Size
  - paper 11-2
- Sleep mode 6-2
- Software
  - using 3-5
- Spacing 12-3
  - fixed pitch 12-3
  - proportional 12-3
- Special media
  - loading 4-6
- Specifications 13-2
- Storage container 5-7
- Storing your printer 10-4
- Stroke weight 12-5
- Style 12-5
- Supplies and accessories 14-4
- Switching print cartridges 5-2

## T

- Technical information 13-1
- Text scale menu group 8-4
- Text scale mode 11-10
  - default setting 11-10
- Transparency film
  - loading 4-6
  - loading into cut-sheet feeder 7-9
  - printing 4-6
  - recommended 4-4
- Transporting your printer 10-4
- Troubleshooting 9-1
  - battery problems 9-12
  - error indicator lights 9-4
  - media handling problems 9-10
  - no response from printer 9-2
  - print cartridge problems 9-20
  - print quality 9-7
  - printer self test problems 9-19
  - printing problems 9-9
- Turning the printer on and off 2-8
- Typeface 12-2

## U

- Univers font
  - using 12-11
- Universal printer driver
  - Windows 3.1 3-3
- Unpacking the printer 1-4
- Using battery power 6-1
- Using CG Times font 12-11
- Using Courier font 12-11
- Using fonts in your documents 12-11
- Using Letter Gothic font 12-11
- Using media 4-1
- Using the cut-sheet feeder 7-1
- Using the print cartridge 5-1

## W

- Where to set up your printer 1-3





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