

Manage Prints (continued)

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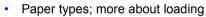








You can find more about the following topics in the User's Reference Guide, which is on the Using Your Printer CD:



- Ink supplies
- Page formatting
- Printer configuration
- Care of your printer
- Accessories
- · More about solving problems
- · General index; Glossary of terms.

Many of the procedures in the *User's* Reference Guide are animated.

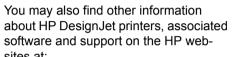
about HP DesignJet printers, associated software and support on the HP websites at:

www.hp.com/go/designjet

www.designjet-online.com.

See the other side of this Pocket Guide for information about troubleshooting problems.

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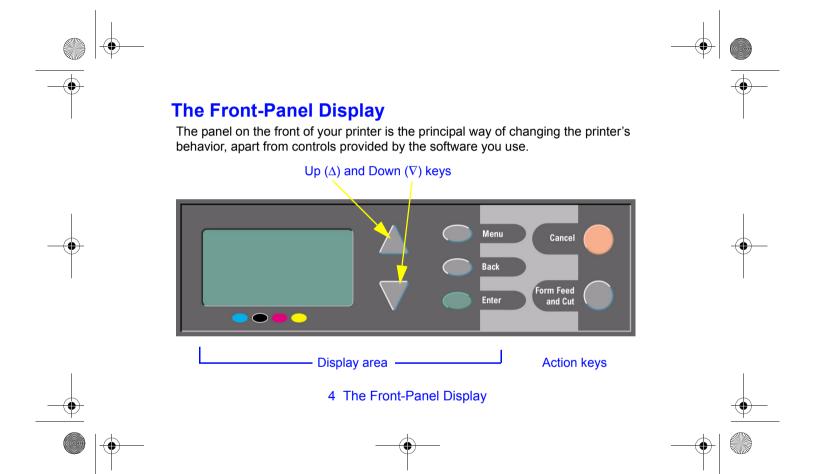
















- Up (Δ) and Down (∇) let you navigate through the items in a menu list. If there are more options than can be shown on the front panel, a vertical scroll bar appears on the right side of the panel. If further choices can be made for a menu item, the symbol "▶" appears to its right. A selected setting is shown by a tick (" $\sqrt{"}$ ").
- Menu takes you to the main screen. It cancels any choices that have not yet been selected by pressing Enter.
- **Back** takes you to the previous screen, also cancelling any choices not yet selected with Enter.
- Enter selects the item in the menu list and makes it current. If there are further

selections to be made, Enter takes you to them, shown by the arrows (\rightarrow) in the table that starts on page 6.

Display-Area Screen: Menu Icons

There are four main front-panel menus, each with a different icon highlighted. You can always reach a main menu by pressing **Menu** and then scrolling (Δ or ∇).



Job management

Set-up

Action Keys

- Cancel cancels the current operation (printing or preparing for printing).
- Form Feed and Cut causes a sheet to be ejected or the roll to be advanced and cut.

The Front-Panel Display 5





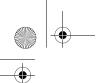














On pages 7 through 16 are the printer's frontpanel menus, listed alphabetically. The key to the list is on the right.

In the User's Reference Guide (on the Using Your Printer CD) they are listed according to the structure of the menus.

For examples of how to use the menus, see page 17.

Note: PostScript functions in the HP DesignJet 500PS printer are available through the supplied PostScript driver, and are *not* available from the printer's front panel.

Key to the List of Front-Panel Menus

- There is more in this Pocket Guide on the page indicated in black or in red if it is on the reverse ("The Problem Is...").
- There is more in the *User's Reference* Guide, some sections with animations.

Only available when PostScript or HP-GL/2 is available on the printer (HP DesignJet 500 [with HP-GL/2 Accessory card], 800 and 800PS printers).

Only available when PostScript is available on the printer (HP DesignJet 800PS printer).

Only available when HP-GL/2 is available on the printer (HP DesignJet 500 [with HP-GL/2 Accessory card], 800 and 800PS printers).

6 Alphabetical List of Front-Panel Menus















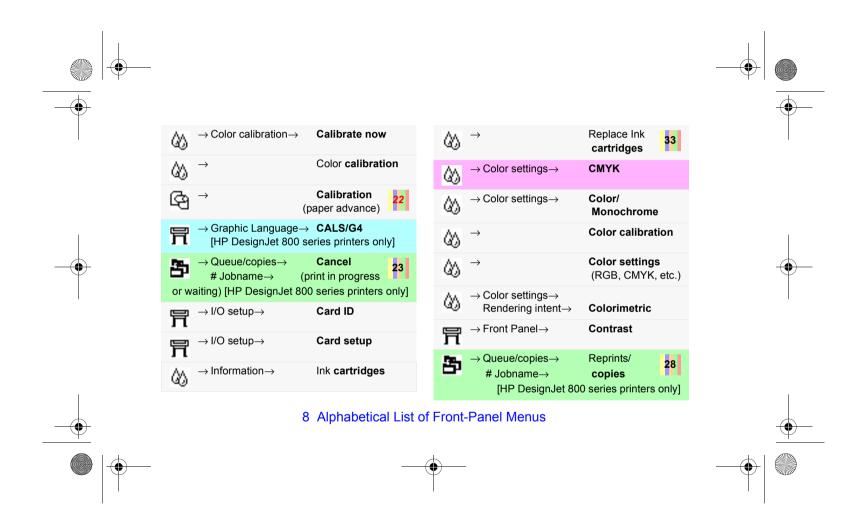


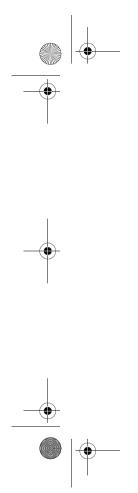
panel

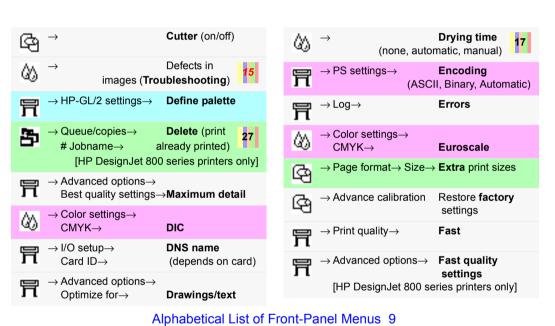
front

the

navigate







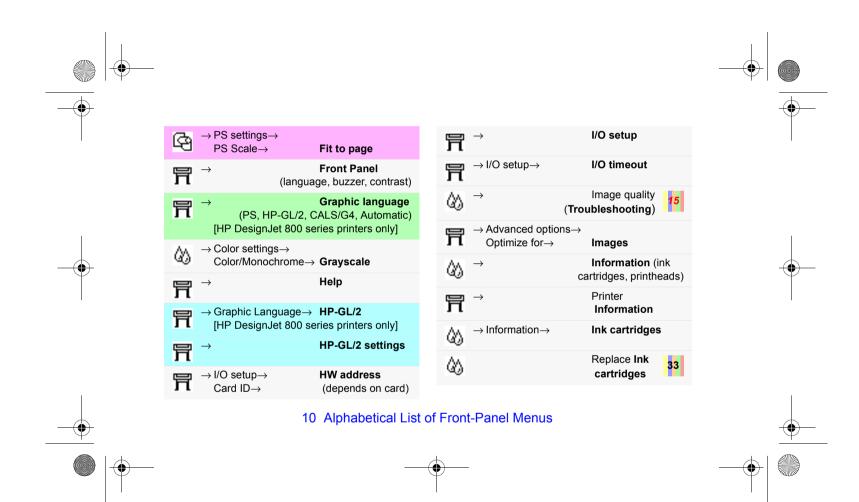
panel

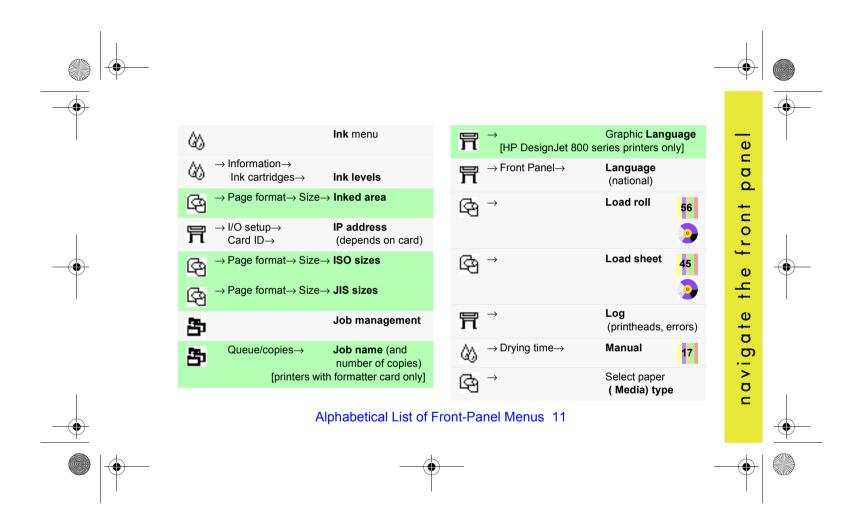
front

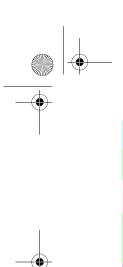
the

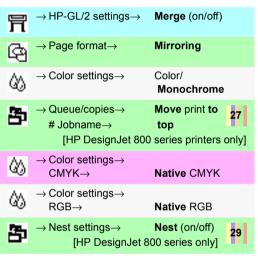
ate

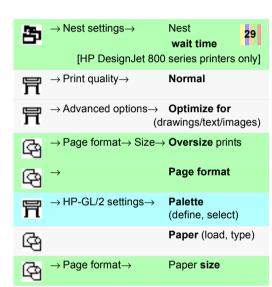
navigo







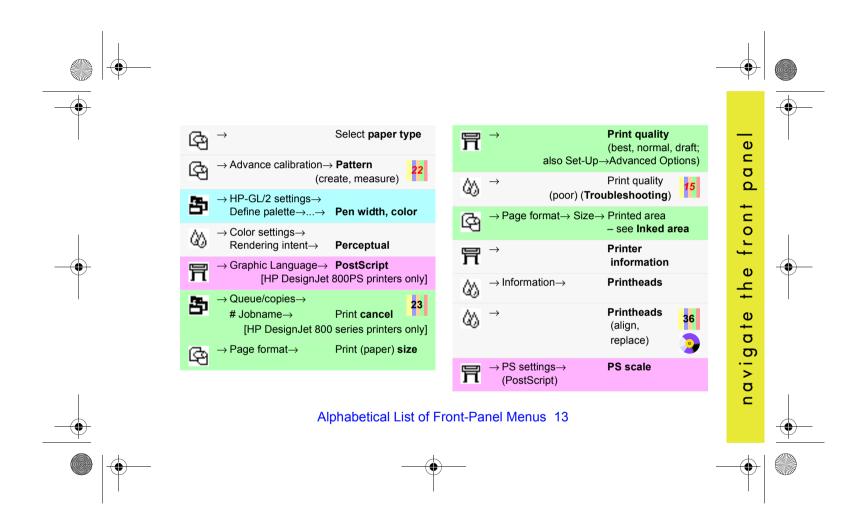


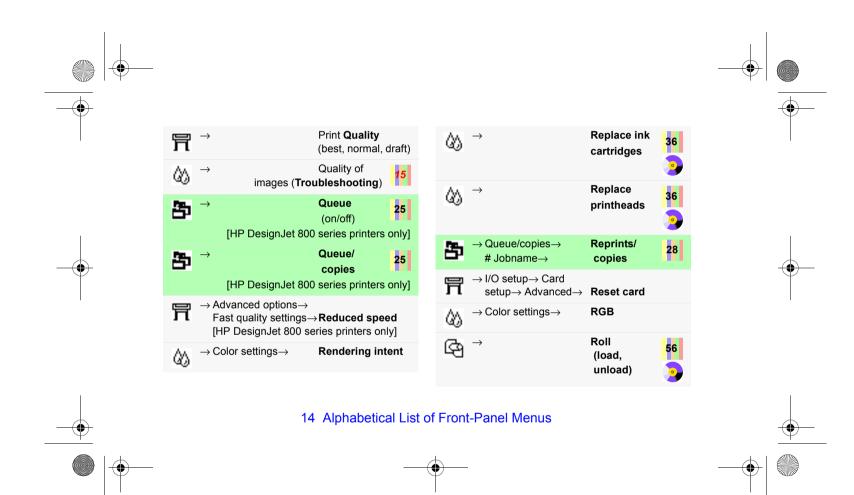


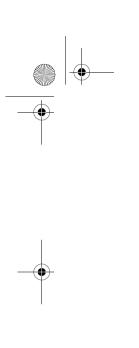


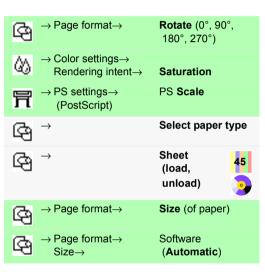












胃	→ Advanced options— Fast quality settings [HP DesignJet 800	s→Reduced speed
ℴ		sRGB
ℴ	$ \begin{array}{c} \rightarrow \text{Color settings} \rightarrow \\ \text{CMYK} \rightarrow \end{array} $	SWOP
胃	\rightarrow Advanced options— Optimize for \rightarrow	Drawings/ Text
胃	\rightarrow I/O setup \rightarrow	I/O Timeout
ℴ		тоуо
ℴ	→ T	roubleshooting (image quality)
Ø	\rightarrow	Select paper type

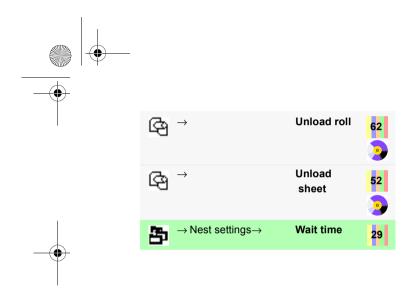


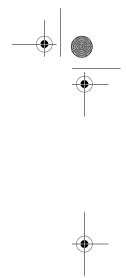


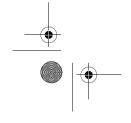






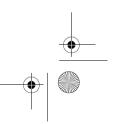


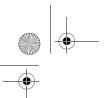












Examples of How to Use the Front Panel

The keys you should press on the front panel are highlighted here in yellow.

Setting the Ink-Drying Time to Two Minutes

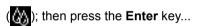
1 From the table on page 9, the menu structure is shown as:



2 Starting from the main **Paper** menu, press the **Down** key (∇) once...

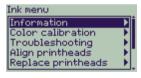


...until the Ink menu (()) is highlighted

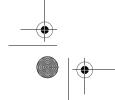




...to enter the Ink menu:

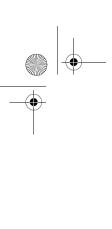


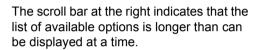




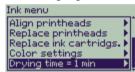








3 Press the Down key (∇) several times until Drying time is highlighted.



The number of times you have to press the **Down** key depends on:

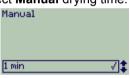
- which model of printer–HP DesignJet 500 or 800 series,
- whether you have an accessory card installed on an HP DesignJet 500 series printer,
- · which options were recently used.



5 Press **Down** (∇) twice to highlight **Manual**, and then press **Enter** again...



...to select Manual drying time:







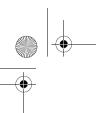












6 Press the Up key (Δ) to change the drying time selection from 1 to 2 minutes. Then press Enter to set the two-minute drying time.

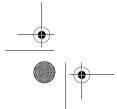


If the front-panel Buzzer is set On, there will be a short 'beep' to confirm the change. The value will be confirmed by a tick mark at the right (" $\sqrt{}$ ").



7 Finally, press the **Menu** key to return to the main menu.





Examples of How to Use the Front Panel 19







This applies to HP DesignJet 800 and 800PS printers only; see page 22 for the HP DesignJet 500 Series with an Accessory card.

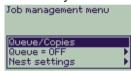
1 From the table on page 8, the menu structure is shown as:



2 Starting from the main Paper menu, press the Down key (∇) twice until Job management (♣) is highlighted (♣); and then press Enter to enter the Job management menu.



Ensure that the highlighting is on **Queue/ copies**, by pressing the **Up** (Δ) or **Down** key (∇) if necessary.



3 Press **Enter** to enter the **Queue/copies** menu.



You will see a list of jobs that are in the print queue. Jobs that have already been printed have negative numbers; jobs that





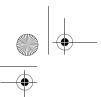








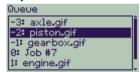




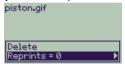
are waiting to be printed have positive numbers.

Suppose the list of jobs are as shown in the diagram. The job that is currently being printed is number 0, whose job name is "Job #7".

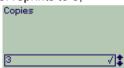
4 Suppose that the job you want to print again is number -2, "piston.gif". Press Up (Δ) or Down (∇) sufficient times to highlight it; and then press Enter to select this job.



5 The options available for the job are listed; select **Reprints** and press **Enter** again.



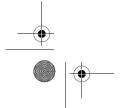
6 Press the Up key (Δ) to select three reprints, and then press Enter to set the number of reprints to 3;



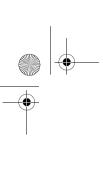
the earlier screen is shown, with available options.

The reprint is automatically moved to the front of the queue.













See page 25 for more about Queueing and **Nesting** prints.

> You can navigate to any of the settings in the table that starts on page 6 in a similar way.

Reprints with the HP DesignJet 500 Series Printers

You must have an accessory card installed in an HP DesignJet 500 Series printer to obtain extra copies; proceed as follows:

1 With Job management highlighted (), press Enter.



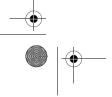
2 You will either see the message Queue is empty, or the name of your job. In the latter case, press **Enter** to see the options available (including Reprints), and continue as in Step 5 on page 21.





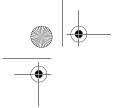








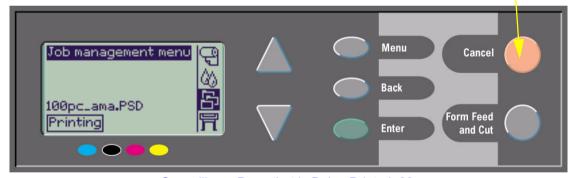




Cancelling a Page that is Being Printed

1 Press the Cancel key on the front panel. The printer advances the paper as though the print were finished. A multi-page job or a big file may take longer to stop printing than other files.

Cancel key



Cancelling a Page that is Being Printed 23





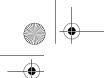
 \sqsubseteq

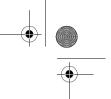
σ

Ε





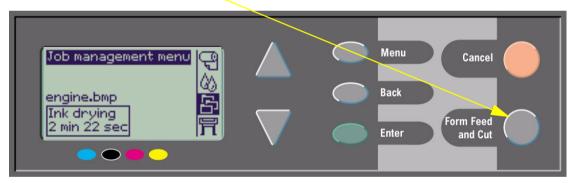




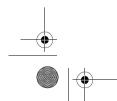
Cancelling the Drying Time for a Printed Page

Use caution when performing this procedure as an image which has had insufficient time to dry could get damaged.

- 1 Press the Form Feed and Cut key on the front panel.
- 2 The printer will release the paper and it will fall into the paper bin.

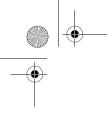














Queueing and nesting are only available on the HP DesignJet 800 Series. (On the 500 Series, you can obtain reprints if an accessory card is installed; see page 22).

Change the **Queueing** setting by selecting **Queue On** or **Off** from the **Job Management** () menu.

To change the **Nesting** setting, see page *30, Turning Nesting On and Off.*

If the printer is turned off with unprinted files in the queue, the files are lost and must be resent.

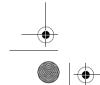
With Queueing Turned ON

When Queueing is On and the printer receives print files, the files are stored in the queue in the

order they are received. If Nesting is Off, the files are printed as soon as possible, in the order they are received. If Nesting is On, files are printed when the time-out period expires or there are enough files to fill a page width. You can reprint files which have already been printed. See also page 29, Avoiding Paper Waste by Nesting Pages.

- You can send pages to the printer without waiting for the current page to finish printing.
- Pages are stored in the queue in the order they are received.
- You can manipulate the pages in the queue, for example prioritizing them and reprinting them.
- You can use nesting, the printer's paper-

Managing Pages that have Not Yet been Printed 25





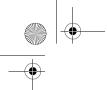


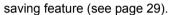
Ξ











 While one page is printing, the printer will accept and start processing the next file.

With Queueing Turned OFF

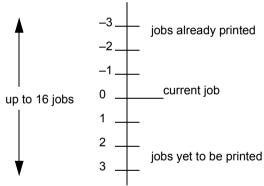
If Queueing is Off and the printer receives files, they are printed as they are received, and are not stored in the queue. Nesting settings have no effect.

- Files are printed as they are received, and are not stored in the queue.
- The printer will not accept another file sent from the computer until the current page has finished printing and the printer is ready.
- You cannot use nesting.

If you turn queueing off while pages are still in the queue, they will be printed and (if nesting is on) nested, until the queue is empty.

Position in Queue

The job currently being printed is in position 0. The next job to be printed is in position 1, the one after in position 2, and so on. The previous job printed is in position –1, the one before that in position –2, and so on.



26 Managing Pages that have Not Yet been Printed







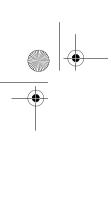












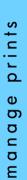


To make any job in the queue the next one to be printed, select it and choose **Move to front**. If nesting is turned on (see page 29, *Avoiding Paper Waste by Nesting Pages*) the prioritized job may still be nested with others. If you really want this job to be printed next and on its own on the roll, then first turn **Nesting Off** and then use **Move to front** to move it to the top of the queue.

Deleting a Job from the Queue

Under normal circumstances, there is no need to delete a job from the queue after printing it, as it will just "fall off the end" of the queue as more files are sent. However, if you have sent a file in error and want to avoid any chance of it being reprinted, you can delete it by selecting it and choosing **Cancel**.

To remove a job that has not yet been printed, simply identify it by its position in the queue (see page 26, *Position in Queue*) and delete it, by choosing **Cancel** and pressing the **Enter** key. If the job is currently being printed (its queue position is 0), and you want both to cancel the job and to delete it from the queue, first press the **Cancel** key and then cancel it from the queue.

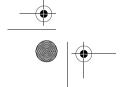




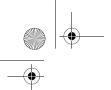














Making Copies of a Job in the Queue

Has the job already been printed?	What to do
Yes	Use Reprints (see right)
No	Use Copies (see right)

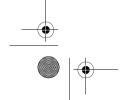
In all cases, the job must still be in the queue.

Copies and Reprints

Having selected the job and chosen Copies or Reprints (from the Job Management (🛅) menu), use the scrolling keys to specify the number of copies required, and press Enter. The number you enter is the actual number of pages to be printed; for example, choosing 2 for a page not yet printed means you will get the one original and one additional; choosing 2 for a page already printed once will result in a total of three (the original one and two more). The maximum number you can specify is 99.

- The setting you specify in this option overrides any value set by your software.
- If Rotate was on when you sent the file, every copy will be rotated also.

28 Making Copies of a Job in the Queue





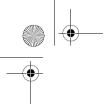














Nesting can only be used with roll paper. Nesting means placing pages side-by-side on the paper (rather than one after the other), to avoid wasting paper.

The Printer Tries to Nest Pages When...

- The printer is loaded with roll paper rather than sheet paper; and
- In the front-panel menus, Queue is On (the default). See page 25, Managing Pages that have Not Yet been Printed; and
- In the front-panel menus, Nest is On (that is, set to a value from 1 to 99 minutes). See page 30, Turning Nesting On and Off.

To be in the Same Nest, Pages Must Satisfy All the Following Conditions...

- All must be Color or all Grayscale. Grayscale may include a color page rendered in grayscale.
- · All must be at the same dots-per-inch setting.
- All have the same print quality setting (Best, Normal, Draft).
- All have the same Margin sizes.
- All must be HP-GL/2 prints or all PostScript.
- All must have the same Page accuracy.

Nesting does not cause any automatic rotation of pages.

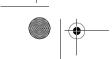




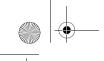


















Nest Setting Selected	Printer's Response
Off	The printer will not nest pages.
99, 2, 1 The number represents the number of minutes that the printer waits, after receiving a file, before it starts printing.	Choose one of these values if you want to use the least amount of paper. The printer will search all through the queue for suitable pages. It will nest the pages according to an algorithm that, for most combinations of page sizes, saves the most paper. The resulting nesting pattern may still vary, depending on the size of the first page.

Which Pages cannot be Rotated?

Apart from obvious physical limitations on the roll, any **HP-GL/2** page containing *raster data* will not be rotated.

















Ink Cartridges and Printheads

The ink cartridges are the reservoirs that contain the four colored inks that are used for printing. They are located under the cover on the right side of the printer, towards the back (see next page).

An Ink Cartridge



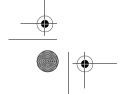
The **printheads** are the components that place minute droplets of ink onto the paper. They are located under the main window at the top of the printer.



Note: Setup printheads are special nonprinting components required only before installing the printer.

Ink Cartridges: Your printer uses HP No. 10 Black and HP No. 82 Cyan, Magenta and Yellow Printheads: Your printer uses HP No. 11 Black, Cyan, Magenta and Yellow

Ink Cartridges and Printheads 31





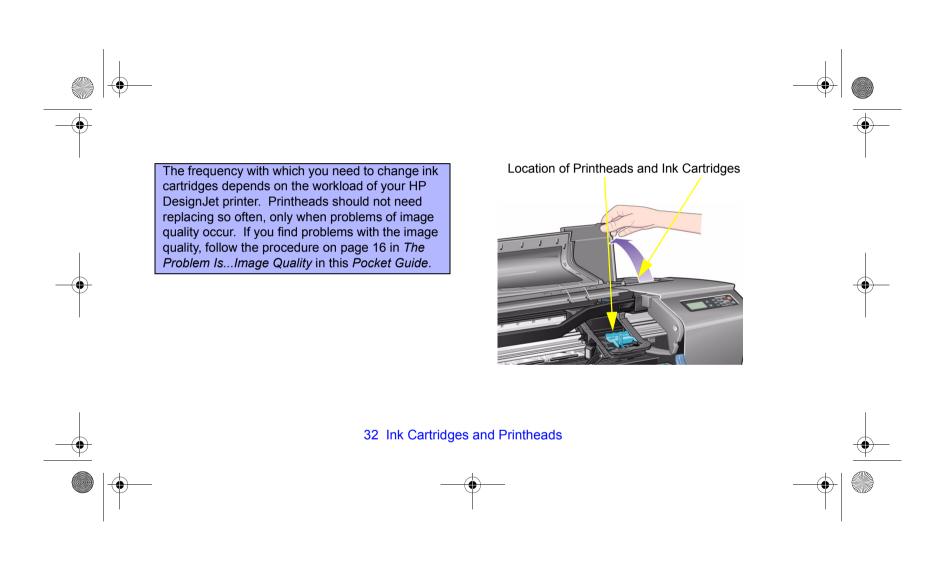
















Replacing Ink Cartridges

If the printer detects that an ink cartridge needs replacing, you will see a message with four icons (explained below), referring from left to right to the Cyan (•), Black (•), Magenta (•) and Yellow (•) cartridges.



The icons may be any of the following:



The cartridge is **OK**; the approximate level of the ink is indicated—a full cartridge has the whole interior black;



Flashing; the cartridge is missing, and the correct one must be inserted as indicated in subsequent steps;



Flashing exclamation mark; the cartridge is low on ink, and needs replacing at the earliest opportunity; the ink level may show up to ¹/₈ full, and for some CAD drawings this can be adequate for an appreciable time;



Flashing pump; the cartridge is out of ink, and must be replaced before any further printing can be done;



Flashing cross; the wrong cartridge is installed, and must be replaced before any further printing can be done.











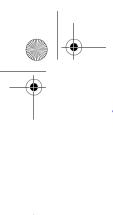










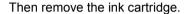






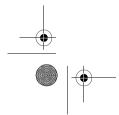
Then remove the ink cartridge.

























3 Insert the ink cartridge into its correct position, pushing it down until it clicks into place. Colored labels on the ink cartridges must correspond with the same colored labels on the printer. Arrows on the cartridges point towards the front of the printer.



4 When all cartridges have been successfully installed the icons will stop flashing; press Enter on the front panel (or await the time-out).



5 Finally close the ink cartridge cover. You will see the front-panel message "HP ink cartridges successfully installed



























If there is an error with one or more printheads, the printhead status is shown by four icons, referring from left to right to the Cyan (•), Black (•), Magenta (•) and Yellow (•) printheads.

In this example, three of the printheads are OK but the magenta one is missing (the icon flashes).

In the second example, the magenta printhead is faulty (the cross flashes).

If you identified a printhead as being faulty during the Troubleshooting routine (see page 16 on the reverse of this Pocket Guide), the icon shows a flashing exclamation mark.

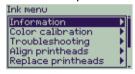
If the printer is unable to determine which of several printheads are faulty, the front panel shows three or four flashing question marks.

Printhead Status

1 To determine the status of the printheads, from the main front-panel menu, select Ink System (⟨⟨∆⟩) and press Enter.



2 Select Information and press Enter.



3 Select Printheads and press Enter. You can then call up the information about any of the printheads by selecting it and pressing Enter.





















Follow these Steps to Replace Printheads

1 From the main front-panel menu, select **Ink** System (()) and press Enter.

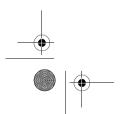


2 Select Replace Printheads and press Enter.



3 Wait for the front panel to display "Open window to replace printheads". Then open the window and locate the carriage assembly.

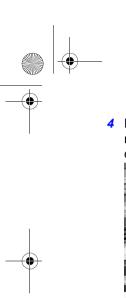


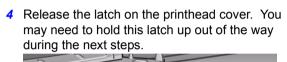


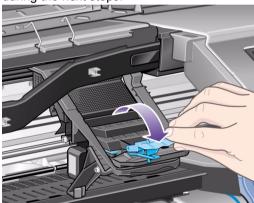




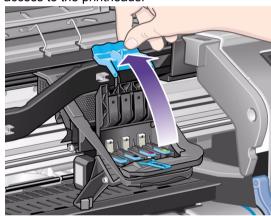


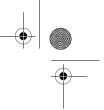




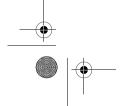


Lift up the printhead cover; this will give you access to the printheads.











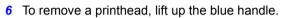


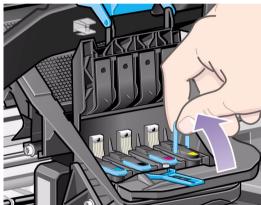




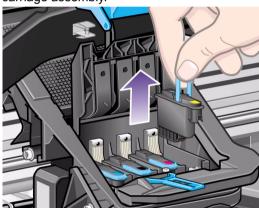








7 With controlled force, pull the blue handle upwards until the printhead is released from the carriage assembly.















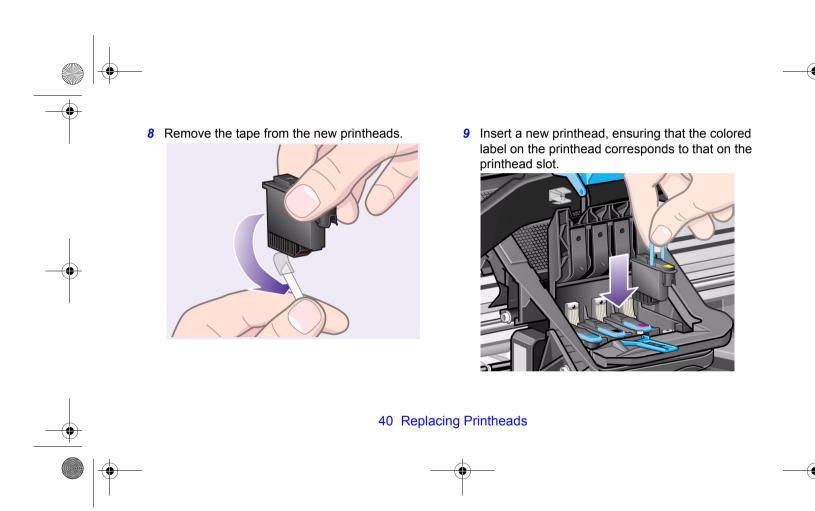








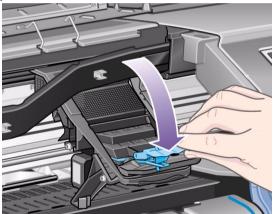




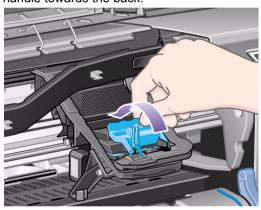


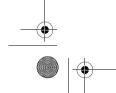


10 When you have replaced all printheads that need replacing, pull the printhead cover down over the printheads.



11 Close the latch on the printhead cover by catching the hook over the latch and moving the handle towards the back.





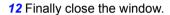


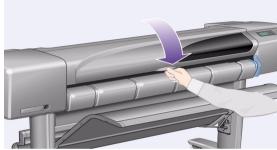










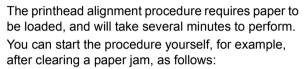


After the replacement of the printheads, the printer checks that they are all functioning correctly; this may take several minutes..

You will see the front-panel message "HP No. 11 printheads successfully installed".

Then the printhead alignment procedure starts, see the next section.

Aligning Printheads



- 1 From the main front-panel menu, select lnk
 System (♠) and press Enter.
- 2 Select Align Printheads and press Enter.



3 Choose either **Standard** (which will take about 4½ minutes, and which is recommended for normal use) or **Special** (which takes about









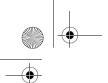


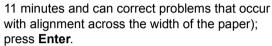














Standard alignment requires paper of at least A4/ Letter-size, loaded in landscape mode.

Special alignment requires paper of at least A3/ B-size, loaded in landscape mode. Two separate prints are made.

Not all paper types are supported for alignment; the printer will tell you if you load the wrong type. Among those supported are: Bright White Inkjet Paper, Coated Paper, Heavy Coated Paper and Plain paper.

Color Calibration

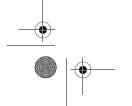
Color calibration is the process of matching the ink with the paper. When new printheads have been installed, we recommend you use the Color Calibration routine to ensure that the quality of your images is optimized.

You can discover what paper the ink system is currently calibrated for, as follows:

- 1 From the main front-panel menu, select **Ink** System ((()) and press Enter.
- 2 Select Color calibration and press Enter.

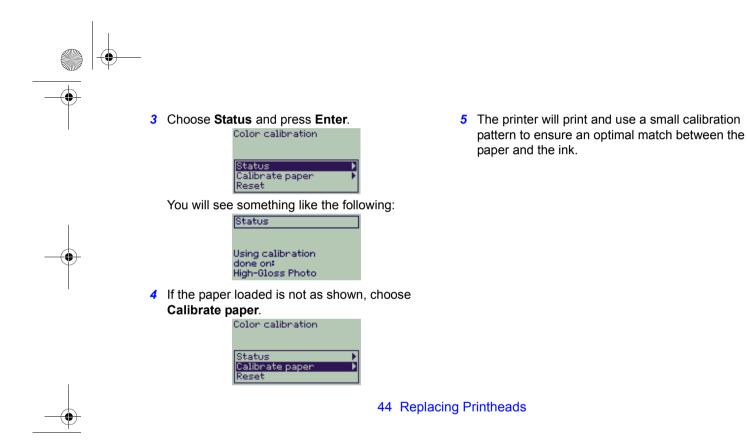


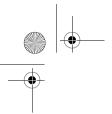






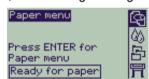




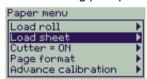


Loading a Sheet of Paper

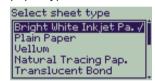
1 Using the **Menu** and the Δ or ∇ keys, select the Paper menu; the following message will appear:



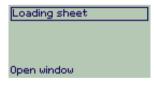
2 Press **Enter**. The following prompt will appear:



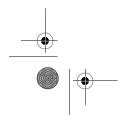
3 Use the Δ or ∇ key to select **Load sheet** and press the Enter key. The following message will appear, with a list of paper types:



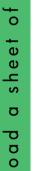
- 4 Select the type of paper you are loading (using the Δ and ∇ keys) and press **Enter**. The default selection is whatever you used last time.
- 5 The front panel displays:



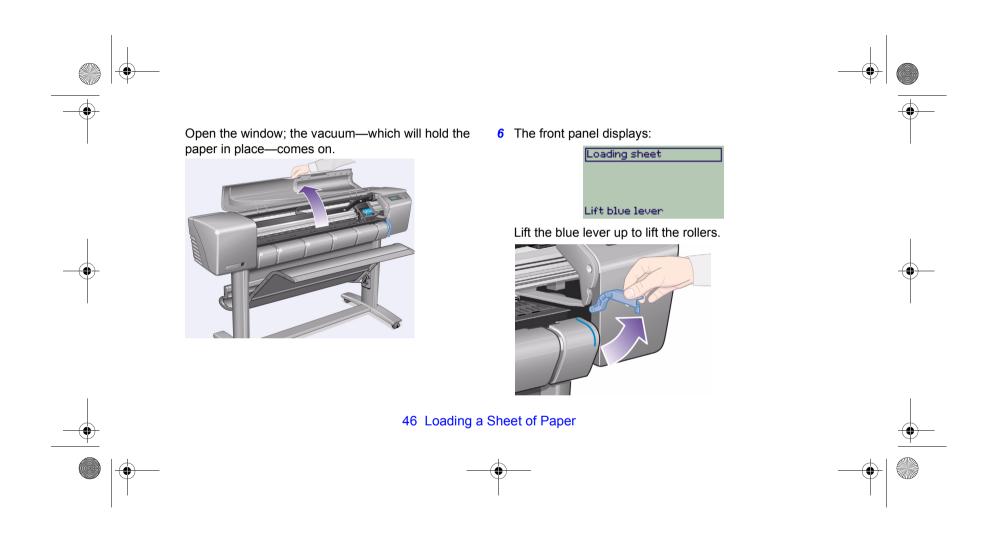
Loading a Sheet of Paper 45

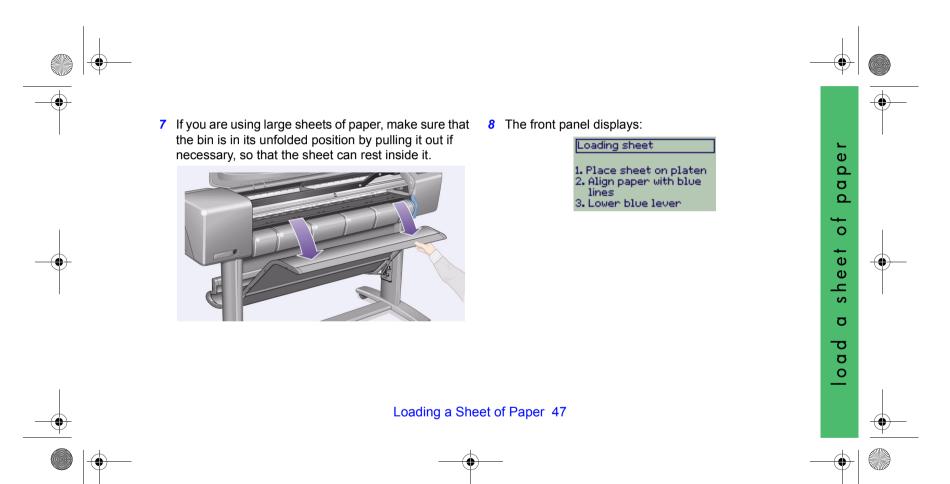


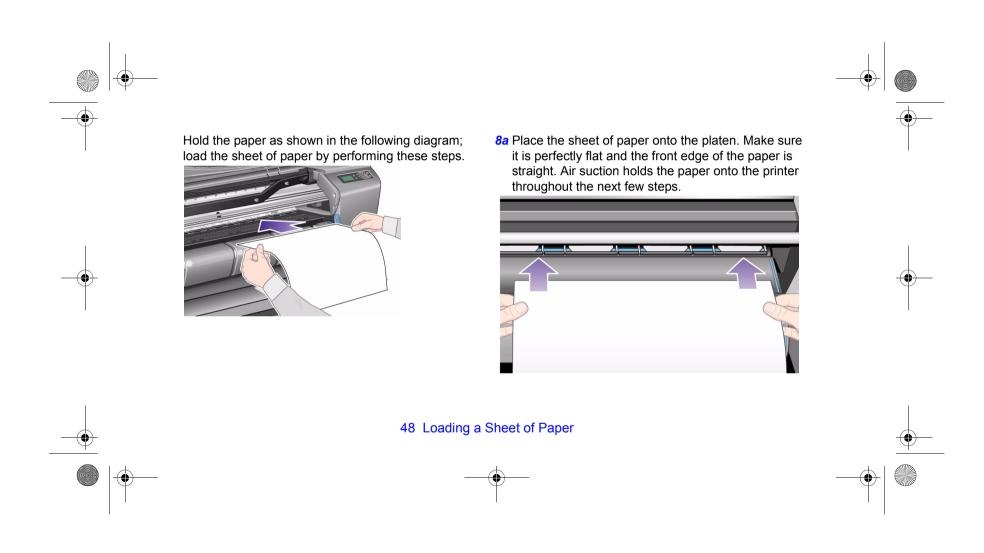


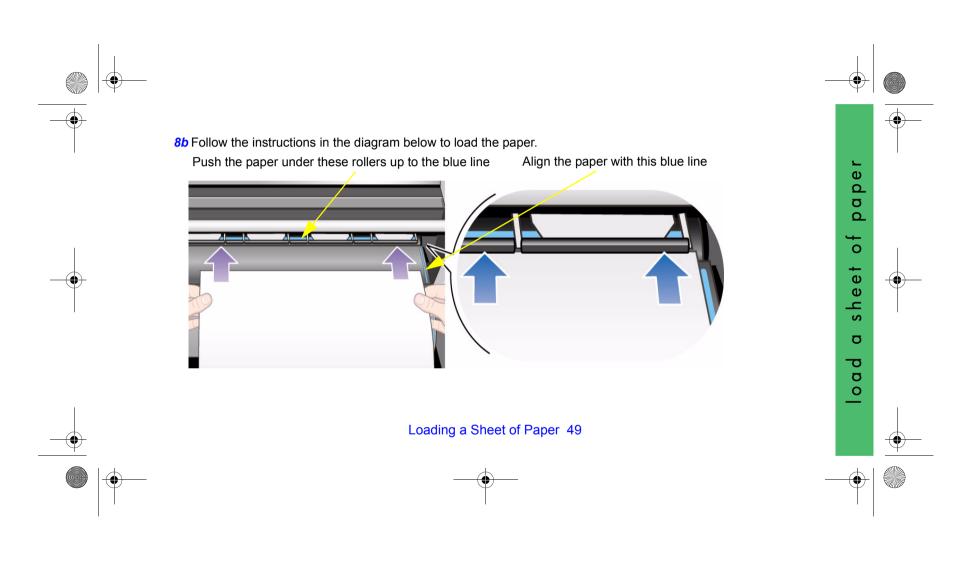


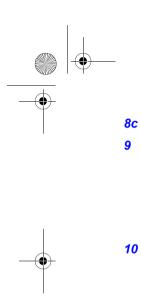












8c Lower the blue lever.

9 The front panel displays:

Loading sheet

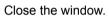
Feeding sheet.

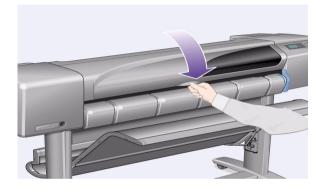
Please wait

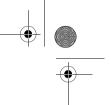
10 The front panel displays:

Loading sheet

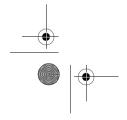
Close window









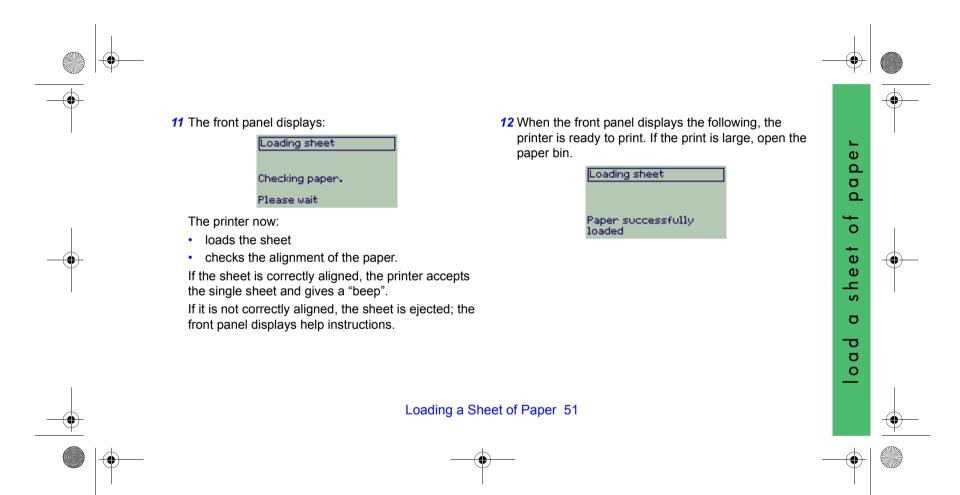


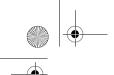










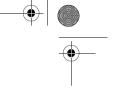




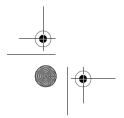
To unload a sheet, press the **Form Feed and Cut** key on the front panel.



Use caution when performing this procedure as an image which has had insufficient time to dry could get damaged.





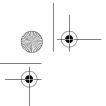


52 Unloading a Sheet of Paper



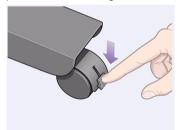




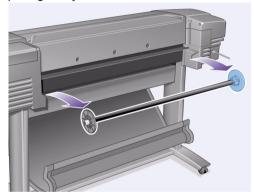


Installing a New Roll on the Printer

1 If your printer has legs, make sure the printer wheels are locked (the brake lever is pressed down) to prevent the printer from moving.

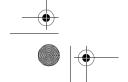


2 At the back of the printer, remove the empty spindle by pulling firmly on each end as indicated below.



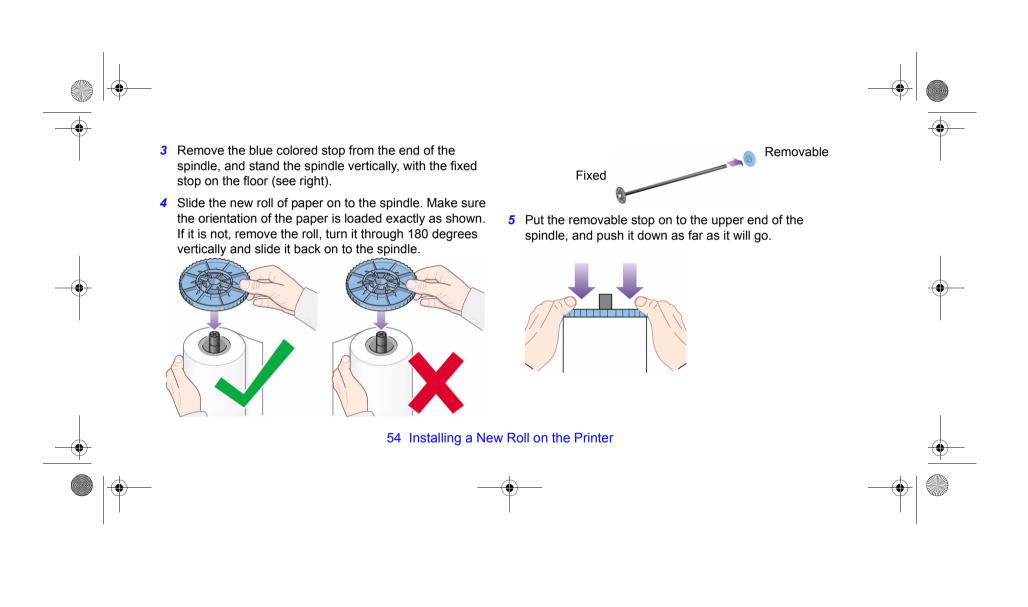
The spindle has a stop at each end to keep the roll in position. The stop that is colored blue can be removed to mount a new roll; it slides along the spindle to hold rolls of different widths.

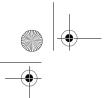




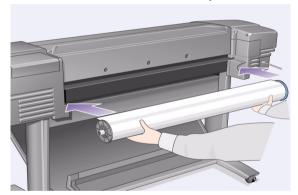


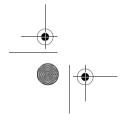






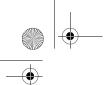
6 With the blue colored roll stop on the right (as seen from the back of the printer), slide the spindle into the printer left and then right, as shown by the arrows. The paper should be oriented on the roll exactly as shown below.





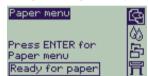
Installing a New Roll on the Printer 55



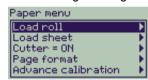




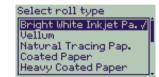
1 Using the **Menu** and the Δ or ∇ keys, select the **Paper** menu; the following message will appear:



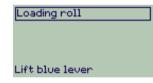
2 Press Enter. The following message will appear:



3 Select **Roll load** and press **Enter**. The following message will appear, with a list of paper types. The default selection is whatever you used last time.



- **4** Select the type of paper (using the Δ and ∇ keys) and press **Enter**.
- 5 The front panel displays:

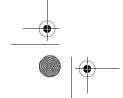








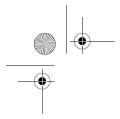




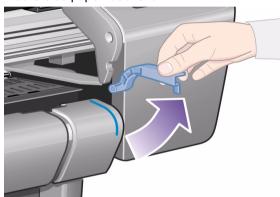




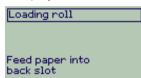




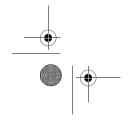




6 The front panel displays:

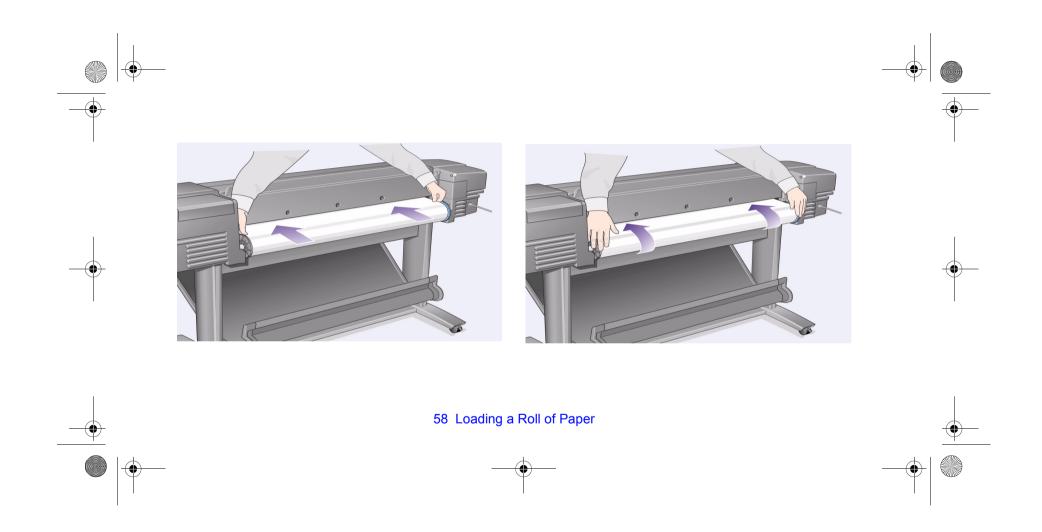


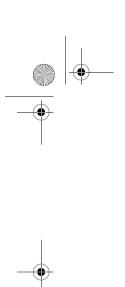
From the front of the printer, lean over the top and feed the paper towards you into the slot at the back of the printer, as shown on the next page. (You may find it easier if the media bin is pushed back out of the way.) Try to avoid touching the paper in the middle (keep your fingers as close as possible to each edge). Handle film and glossy paper by the edges or wear cotton gloves. Skin oils can interact with the ink and cause it to smear.

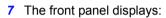


Loading a Roll of Paper 57









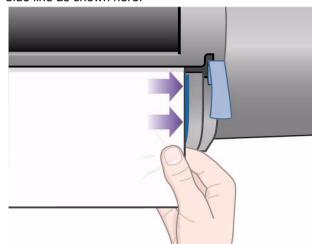
- Loading roll

 1. Feed paper through to front of printer

 2. Align paper with blue line

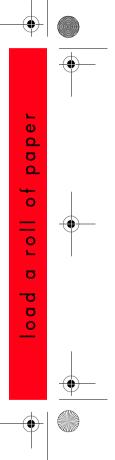
 3. Lower blue lever

At the front of the printer, align the paper against the blue line as shown here:



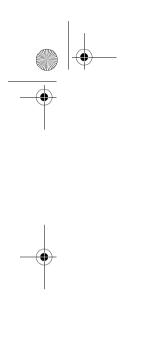




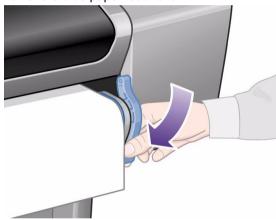


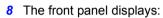


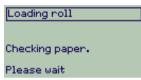




Lower the blue paper-load lever.





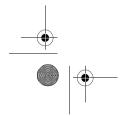


The printer checks the alignment of the paper.

If it is not correctly aligned, the front panel displays help instructions.

9 The printer trims the edge of the roll...

I
Loading roll
Trimming roll edge.
Transmig roll cage.
Please wait



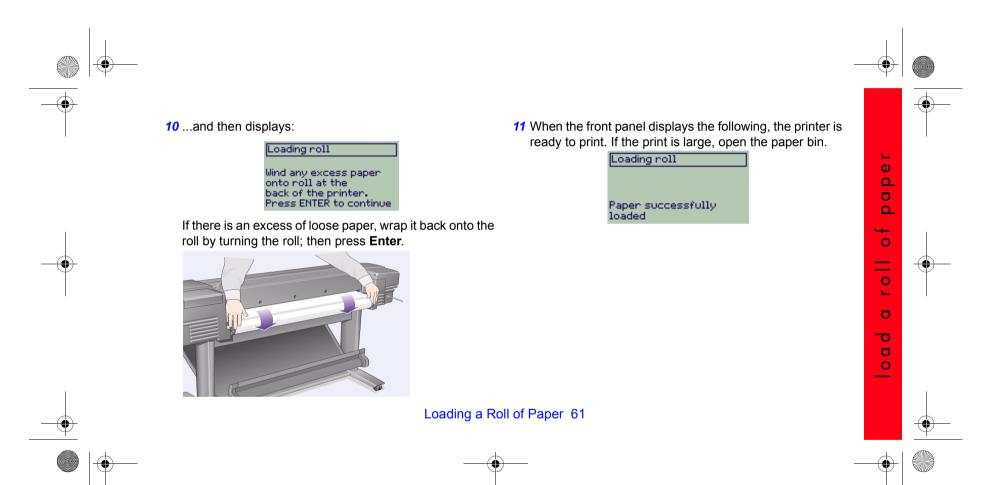


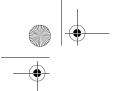








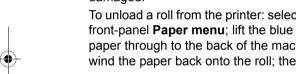




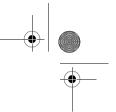


To cut the roll, press the Form Feed and Cut key on the front panel. Use caution when performing this procedure as an image which has had insufficient time to dry could get damaged.

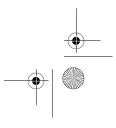
To unload a roll from the printer: select **Unload roll** from the front-panel Paper menu; lift the blue paper lever; pull the paper through to the back of the machine until it is free; wind the paper back onto the roll; then lower the blue lever.

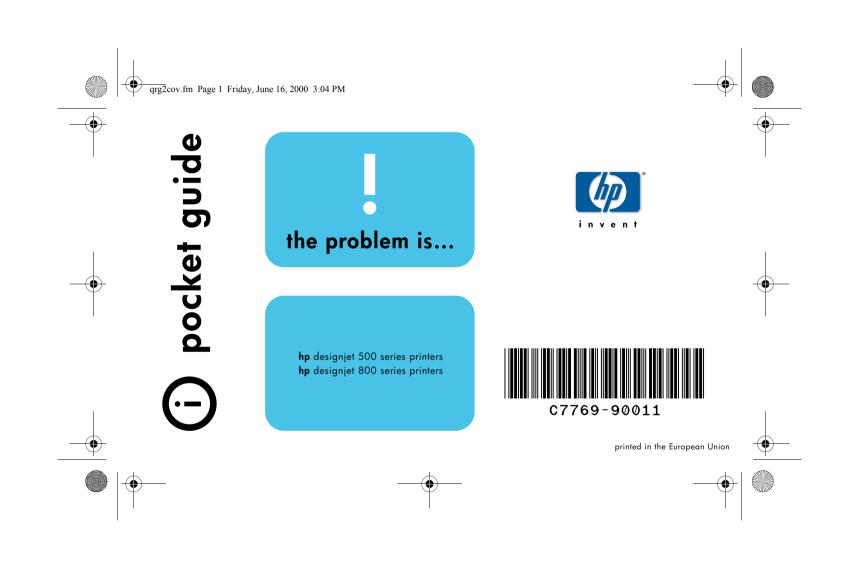


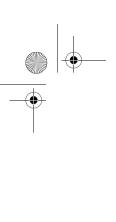














Paper is Jammed 3

No Output or Very Slow Output 7

Unexpected Output 11

Image Quality 15

The Troubleshooting Procedure 16 Advance Calibration Routine 22

Front-Panel Error Messages 25

You may also find other information about HP DesignJet printers, associated software and support on the HP websites at:

www.hp.com/go/designjet

or

www.designjet-online.com.

See the on-line User's Reference Guide, which is on the Using Your Printer CD, for further information about using your HP DesignJet 500 or 800 Series printer.



The other side of this Pocket Guide contains information about how to:

- Navigate the Front Panel (page 4)
- Manage Prints (page 23)
- · Replace Ink Cartridges and Printheads (page 31)
- Load/Unload Sheet Media (page 45)
- Load/Unload Roll Media (page 53)



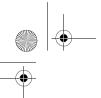














If the front panel displays:

Possibly a paper jam 1. Open window
2. Switch power off
3. Clear paper path
4. Switch power on
5. Align printheads

Paper jams can have various causes:

• The paper is too thick or too thin for the printer, or is otherwise not supported

there is probably paper jammed in the printer.

- The paper is creased or misaligned or is bubbled
- Too much ink is being placed on the paper causing it to cockle or bubble
- The end of the roll of paper is glued to the

core and won't advance further

 Pieces of paper or paper powder are clogging up the cutter guide or other moving parts.

To remove jammed paper:

1 Open the window.



Removing Jammed Paper 3











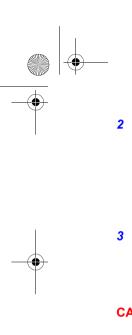






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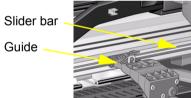
3 If necessary, carefully move the printhead carriage out of the way-if possible all the way to the enclosed area on the left or the right. Which way you are able to move it depends on where the paper is jammed.

CAUTION When moving the printhead carriage, touch only the black plastic parts.

4 If necessary, carefully move the paper cutter out of the way to the left, or to the right depending on where the paper is

jammed (though if moved right it may block

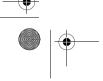
CAUTION The cutter is easily moved by holding it as close as possible to the guide running across the width of the printer. Be careful not to touch the metal slider bar that runs across the printer.



the paper path).



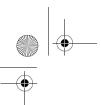


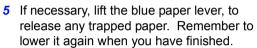












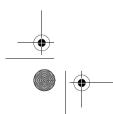


- **6** Carefully remove any of the jammed paper which you can easily lift up and out from the top of the printer.
- 7 Carefully pull the rest of the roll or sheet down and out of the printer. You may need to cut the edge of the roll with scissors.

- 8 Check that the printing zone, including the cutter guide, the paper path, and the area where the printhead carriage is parked, is clear and clean; remove any paper powder by brushing it away or with a vacuum cleaner.
- **CAUTION** The area where the printhead carriage is parked can get quite dirty; be careful not to get ink on your hands.
- 9 Close the window and switch on the printer.





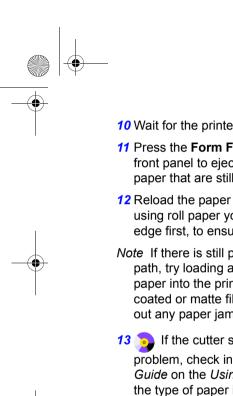












10 Wait for the printer to finish initializing.

- 11 Press the Form Feed and Cut key on the front panel to eject any small pieces of paper that are still in the paper path.
- 12 Reload the paper as normal. If you are using roll paper you may need to trim the edge first, to ensure that it is straight.
- Note If there is still paper left in the paper path, try loading a sheet of stiff or rigid paper into the printer, such as heavy coated or matte film; this will help to force out any paper jammed in the paper path.
- 13 If the cutter seems to be causing the problem, check in the User's Reference Guide on the Using Your Printer CD that the type of paper is supported by the

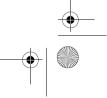
printer. Try disabling the cutter from the front panel; use $\square \rightarrow \mathbf{Cutter} \rightarrow \mathbf{Off}$.

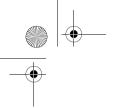
14 You are strongly recommended to use the have caused the printheads to be misaligned. (Select $\langle M \rangle \rightarrow Align$ **Printheads** → **Standard** alignment.) Note that you do not have to interpret the patterns printed by the Printhead

Align Printheads procedure (see page 42 on the reverse of this Pocket Guide) after clearing a paper jam, as the problem may

Alignment routine.









If the printer won't print, or its output appears to be too slow, there may be a communications problem. Some symptoms of this type of problem are:

- The front-panel display does not show evidence of any activity in the Job Management [] menu.
- Your computer displays an error message when you are trying to print.
- Your computer or printer "hangs" (stays idle) while communication is taking place.
- Your printed output shows random or inexplicable errors (misplaced lines, partial graphics etc.)

Items to start checking are:

- Have you selected the correct interface port in your software?
- Does the printer work correctly when receiving files from other software?
- If the printer is connected to a network, try using it when connected directly to your computer.
- If the printer is connected to your computer through any other intermediate devices, such as switch boxes, buffer boxes, cable adapters, cable converters, and so on, try using it connected directly to your computer.
- · Try another interface cable.

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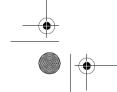
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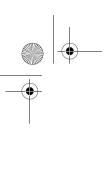












If the Printer does not Print

- You may have a power problem. If there is no activity at all from the printer, and nothing on the front panel, check the power button light, that the power cable is connected correctly, and that there is power available at the socket.
- If you are using a Macintosh and the print job does not print, ensure the printer language is set to Postscript or Automatic. See the ${\color{red} } {\color{red} \boxminus} {\color{red} \rightarrow} {\color{red} \textbf{Graphic Language}} \text{ setting on the front}$ panel.
- You may have a problem with your application driver. Is your software configured for this printer? For general advice, see the Setup Poster. For advice specific to your software, see the documentation supplied with the driver.
- If you have connected your computer to the printer's parallel port and tried to print a binary-encoded PostScript file it will not print. The parallel port will only accept ASCIIencoded PostScript print files. The front panel will display the message "Error processing job. Flushing rest of job". Connect your computer to the HP JetDirect Print Server and send the print file again.
- The file may be too large for the printer's memory. This is the case if the front panel displays "Out of memory. Data was lost". Look on your computer screen for any error message; some drivers allow you to choose a different printing mode—try to resend the file.
- If you continue to have problems, see the "Solutions" section of the User's Reference Guide.

8 No Output or Slow Output







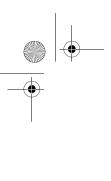














- · Did you specify **Best** print quality level on the front panel? Best quality prints are produced more slowly. See $\begin{cases} \begin{cases} \blacksquare \end{cases} \to \begin{cases} \begin{cases} \begin{cases} \begin{cases} \begin{cases} \blacksquare \end{cases} \begin{cases} \begin{ca$ Did you additionally specify Maximum detail on the front panel? This option means that best quality prints are produced even more slowly. See \Longrightarrow Advanced options \rightarrow Best quality settings → Maximum detail. (Note that these settings are usually controlled by the driver or software you are using.)
- · Did you specify the right media type when loading the media? See $\square \rightarrow$ Select paper type.
- · The printhead may need replacing. See page 36 on the reverse of this Pocket Guide.

- Did you specify a Manual drying time in the front panel?
 - Try $\langle M \rangle \rightarrow$ Drying time \rightarrow Automatic.
- If the printer is in **Normal** mode and the file it is printing contains high-density inked areas the printer will need to slow down to compensate.

If the Printer Waits Too Long to Print a Nest

· Change the **Nest** wait setting. See $\clubsuit \rightarrow \text{Nest} \rightarrow \text{Nest wait}$.



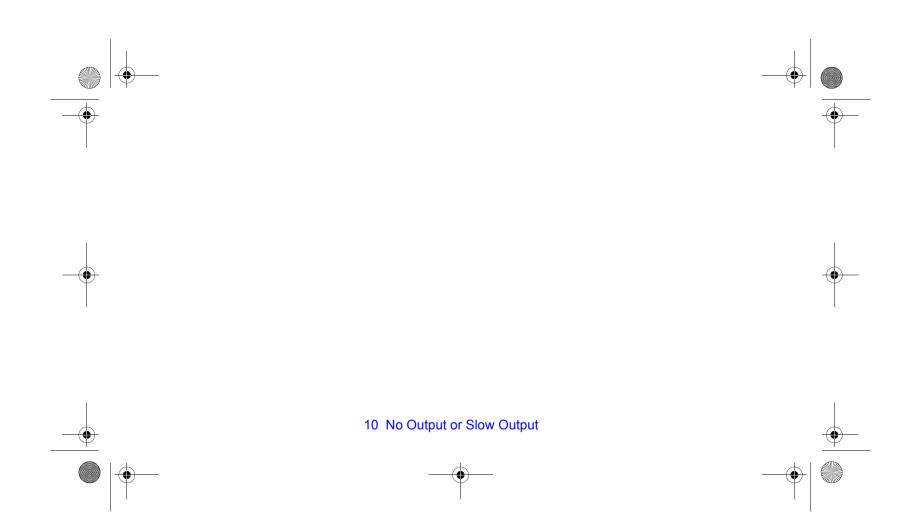


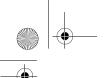












Unexpected or Wrong Output

- · Check that the Processing HP-GL/2 or **Processing PS** messages in the front panel are as you expect them to be.
- Ensure that your printer understands the graphic language you use. See \Longrightarrow Graph. Lang.

Typical problems are:

- The print is completely blank
 - Try changing the Graph. Lang setting.
- · The output contains only a partial print
 - Don't press Cancel or Form Feed and Cut before all the data is received by the printer;
 - Try increasing the \rightleftharpoons \rightarrow I/O Setup \rightarrow I/O Timeout setting or any timeout setting in your network software:

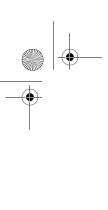
- Try installing extra memory in your printer extra memory is installed on the formatter (accessory) card, for PostScript or HP-GL/2, that is installed at the back of the printer;
- Check the interface cable between your computer and the printer;
- Check the software settings for the page size.
- · The image is clipped
 - Check the printing area in your software and that on the printer; don't forget any margins;
 - Check the media orientation assumed by your software; check the $\square \rightarrow$ Page format \rightarrow Rotate option;
 - Try installing extra memory in your printer's formatter card (see above).

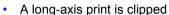
Unexpected or Wrong Output 11











- Does your software support long-axis prints?
- Have you specified an appropriate media size in your software?
- Unless it is a PostScript file, make sure that $\fbox{ } \rightarrow \textbf{Page format} \rightarrow \textbf{Size } \rightarrow \textbf{Inked area} \text{ is }$ set.
- An HP-GL job prints incorrectly or not at all
 - HP-GL is not supported by these printers.
- · The entire image is in one quadrant of the correct printing area
 - Is the page size configured in the software too small?
 - Are you sure that your software doesn't believe the image to be in one quadrant of the page?

- Try changing the language setting. See \Longrightarrow Graph. Lang.
- · The image is unexpectedly rotated
 - Check the \square → Page format → Rotate option.
- · The print is a mirror image of your image
 - Check the \square → Page format → Mirroring setting.
- · The print is distorted or unintelligible
 - Check and if necessary replace the interface cable between your computer and the printer;
 - Try changing the language setting. See \longrightarrow Graph. Lang.
 - Refer to the vendor's user documentation for details of other software or drivers.









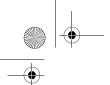












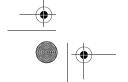


- Try reducing the → I/O Setup → I/O
 Timeout setting. (This normally does not apply to HP-GL/2 printing.)
- · Pen settings seem to have no effect

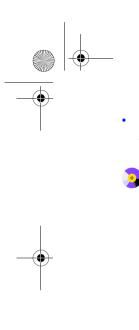
 - Do you expect software-driven pen settings?
 Check that → HP-GL/2 settings →
 Palette is set to Software.
 - Have you changed the setting in the front panel but this has been ignored because the driver setting has not been changed.

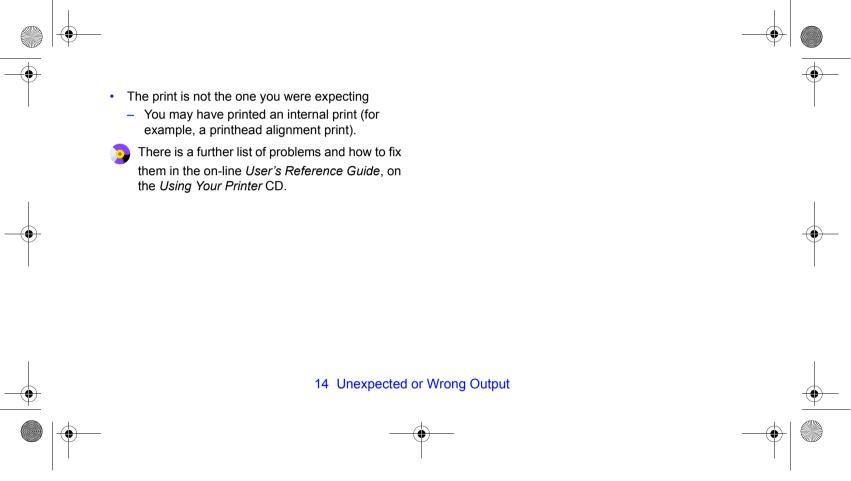
- The printer produces a black-and-white print when you expected a color print
 - Check the front-panel Color/monochrome setting, and the equivalent setting in your software. See ⋈ → Color settings → Color / monochrome → Color / Grayscale / True black.
- · Page format or Rotate does not work
 - These options are available only on the HP DesignJet 800 Series, or if you have an HP-GL/2 accessory card installed in your HP DesignJet 500 Series printer;
 - Try installing extra memory in your printer's formatter card (see page 11);
 - The printer cannot rotate raster images.











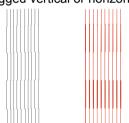


Follow these guidelines if there are problems with the quality of your prints. The sort of problems you might notice are:

· Horizontal streaks on lines:



· Jagged vertical or horizontal lines



· Horizontal banding or horizontal white streaks



However, if a message, like "Problems detected in INK CARTRIDGES" appears in the front panel of your printer, follow the instructions given for that message in the "Front-Panel Error Messages" section starting on page 25 of this Pocket Guide.

The following guide applies to situations where you (and not the printer) perceive a problem with image quality.



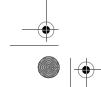






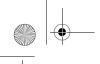




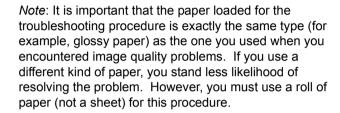












Pages 20 and 21 show the overall flow in the Troubleshooting procedure, and indicate the main actions that take place.

The Troubleshooting Procedure

Run the **Troubleshooting** procedure as follows:

1 From the main front-panel menu, select the **Ink** menu ((())) and press Enter.



- 2 Select Troubleshooting and press Enter.
- Color calibration Troubleshooting
 Align printheads
 Replace printheads 3 The printer first checks to see whether the printheads are aligned. Misalignment of the printheads is a common cause of image quality problems. If they are not aligned, you are prompted

16 The Troubleshooting Procedure















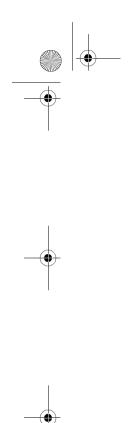
Ink menu

Information









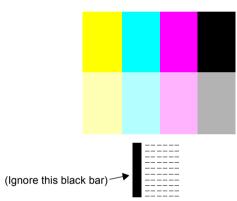
to accept their alignment now. This procedure requires a few centimeters of paper loaded and takes several minutes to perform. (Note that you do not have to interpret the patterns printed by the **Printhead Alignment** routine.) See page 42 on the reverse of this **Pocket Guide**.

- 4 If the printheads do not seem to require alignment, the printer prints **Diagnostic Print A**, several blocks of color and a block of thin black broken lines (the lines are actually very much closer than those represented here).
- 5 Examine the broken lines in Diagnostic Print A carefully and indicate whether there are problems with them.

The sorts of problems to look for here are:

Jaggedness or serrations in the thin lines, like
this:

Diagnostic Print A



the thin lines should be straight, though not necessarily perfectly aligned.

The irregularities that are significant extend along

The Troubleshooting Procedure 17



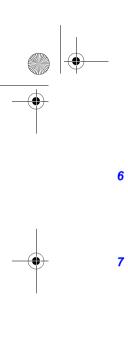
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the whole of the length of the lines. Shorter irregularities, arranged in columns, can be ignored at this stage.

- **6** Examine the blocks of color in Diagnostic Print A carefully and indicate whether there are problems with them. The sorts of problems to look for here are:
 - White streaks or bands in the solid blocks.
- 7 If you indicate that there is a problem with the dashed lines in Diagnostic Print A, you are prompted to use the Advance Calibration routine; your printer will be at step 3 of the routine on page 22 (if you don't want to continue with calibration, press the Cancel key).
- 8 If there are problems in the blocks of color in Diagnostic Print A, for example white streaks or bands, the printer will try to clean the printheads that

have the problem. A printhead can be cleaned up to three times this way; after that it cannot be cleaned and you will be told; the **Troubleshooting** routine will finish. In that case we recommend that you try to reprint your print, and then, if necessary, start the **Troubleshooting** routine again.

After cleaning the printheads, the printer reprints the blocks of color (but not the black lines) in Diagnostic Print A, and asks you to examine it again (as in step 5 on page 17).

- 9 If there are no problems the first time you print Diagnostic Print A, the printer prints **Diagnostic Print B**.
- 10 For each color in the pattern in Diagnostic Print B, you are asked about the quality—look for missing lines. If you answer that a color is defective, the printer tries to clean that printhead.

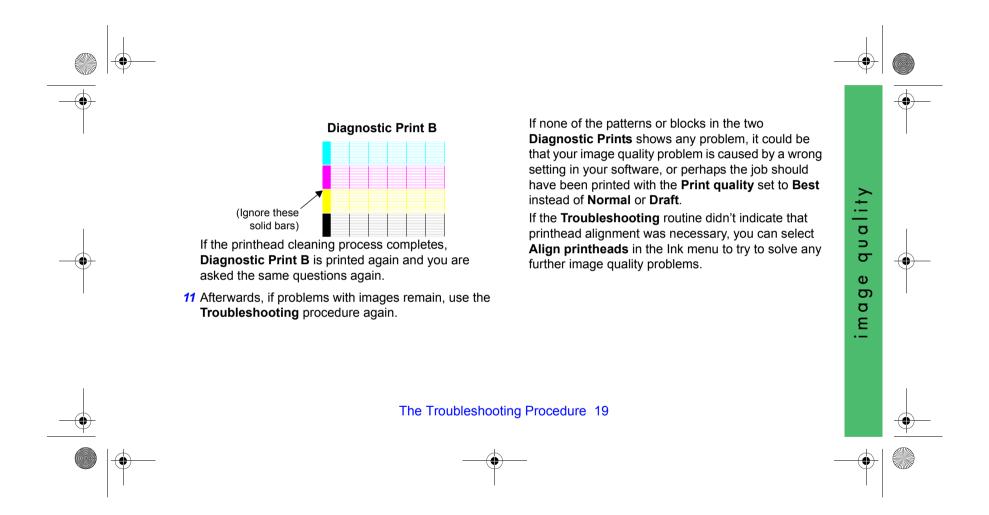
18 The Troubleshooting Procedure

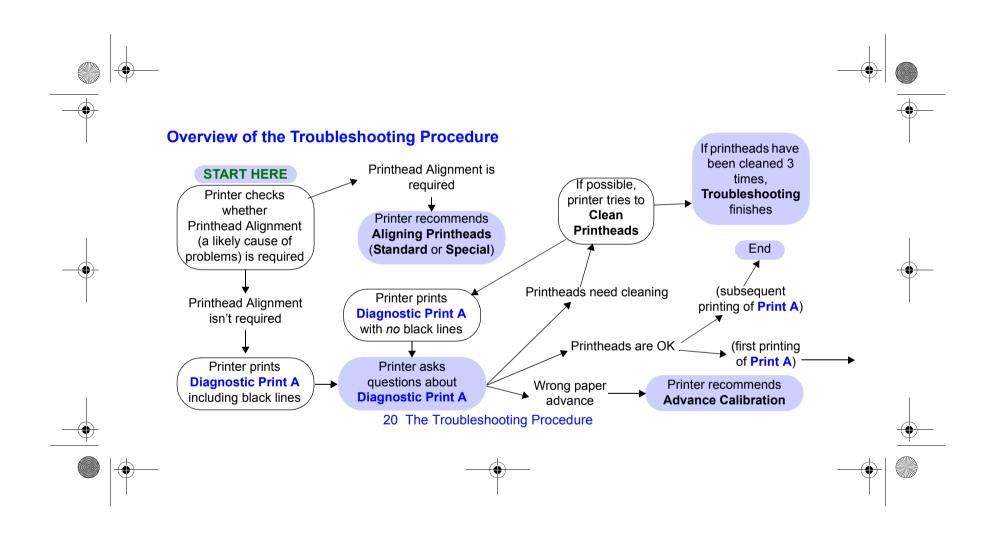


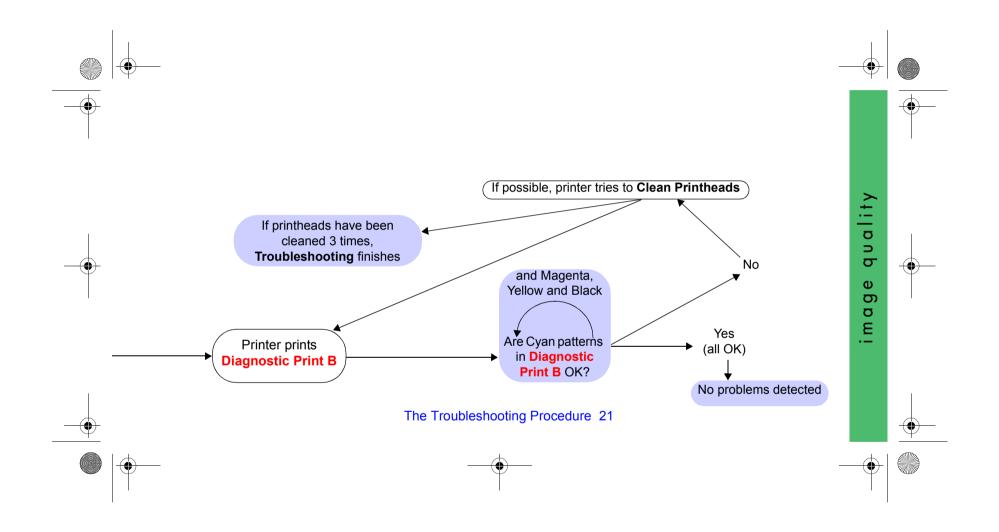


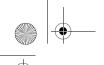














It is important that the paper loaded for this calibration is exactly that used for normal printing, both in quality (for example, glossy paper) and in width (for example, A0 or 36-inch). Either roll or sheet paper can be used.

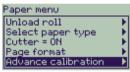
The routine prints a pattern and then cuts the roll or ejects the sheet; it requires paper that is at least 65 cm long and at least 50 cm wide. You must then reload that piece of paper as a sheet, so that the printer can accurately measure the pattern, and make whatever adjustments are appropriate to the amount it advances between printing swaths of data. (See page 45, "Load a Sheet of Paper" on the reverse of this Pocket Guide.)

The pattern printed is solely for the use of the printer; you are not expected to relate any of its characteristics to the quality of your images.

1 From the main front-panel menu, with the correct paper loaded, select the Paper menu (and press Enter.

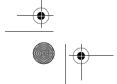


- 2 Select Advance calibration and press Enter.
- 3 Select Create pattern and press Enter. The printer prints its calibration pattern (as represented opposite) and cuts or ejects the paper.



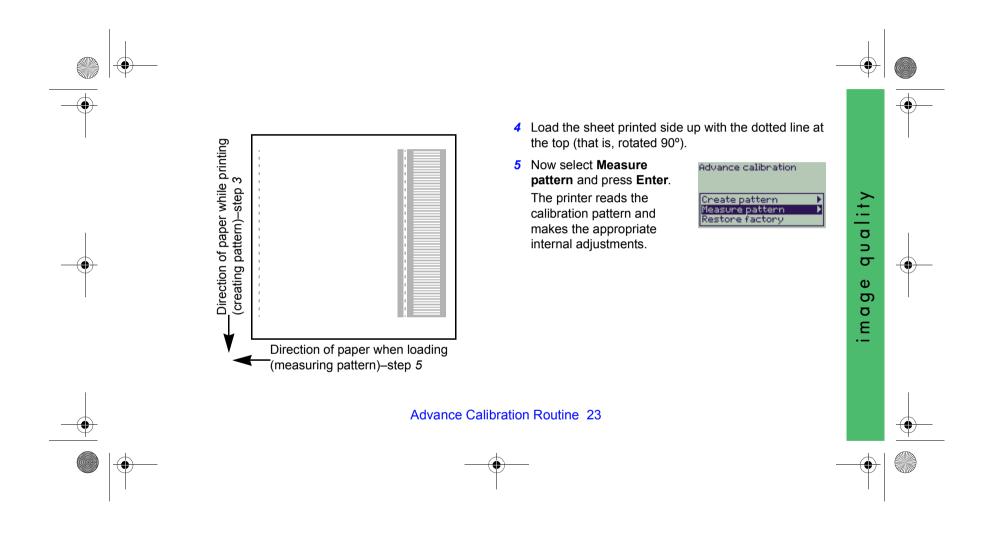


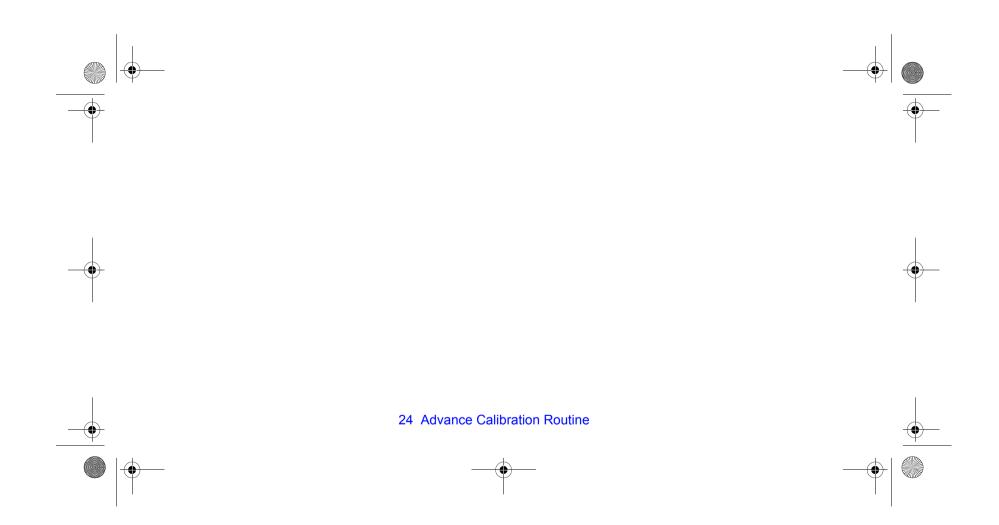


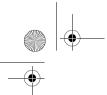








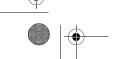




This is a list of the error messages in the front-panel display. If an action is needed, it is shown in *italics* in the **Explanation** and Action column. The messages are listed in alphabetical order. Other front-panel messages, such as prompts, are included in the descriptions of the relevant procedures elsewhere in this Pocket Guide (in the How Do I... part) or in the User's Reference Guide (indicated by the symbol), which you can find on the Using Your Printer CD.

Message	Explanation and Action
Alignment error Press ENTER to continue	The printer was aligning its printheads, but encountered an error. Alignment has stopped. Press the Enter key.
Alignment error due to printheads. Press ENTER to see faulty printheads	The printer was aligning its printheads, but encountered an error due to some printheads not printing properly. Alignment has stopped. Press the Enter key.

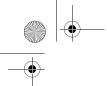


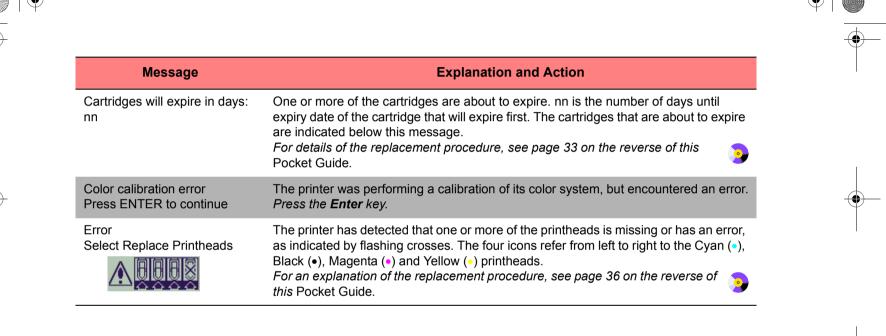


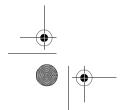






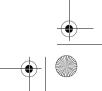






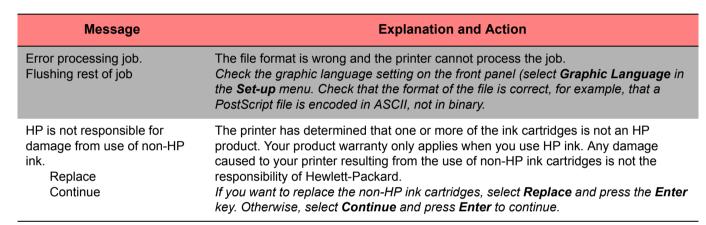


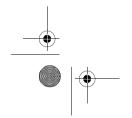








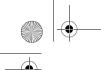










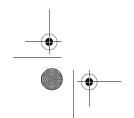






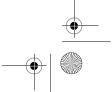


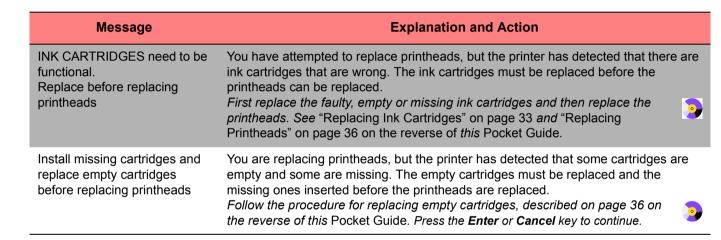
Message	Explanation and Action
HP is not responsible for damage from use of non-HP printheads. Replace Continue	The printer has determined that one or more of the printheads is not an HP product. Your product warranty only applies when you use HP printheads. Any damage caused to your printer resulting from the use of non-HP printheads is not the responsibility of Hewlett-Packard. If you want to replace the non-HP printheads, select Replace and press the Enter key. Otherwise, select Continue and press Enter to continue.
Ink cartridge replacement required	The printer has detected that one or more of the ink cartridges is missing or has an error, as indicated by flashing crosses. The four icons refer from left to right to the Cyan (•), Black (•), Magenta (•) and Yellow (•) cartridges. For an explanation of the icons and details of the replacement procedure, see page 33 on the reverse of this Pocket Guide.

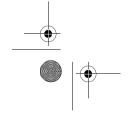


















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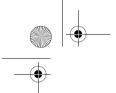
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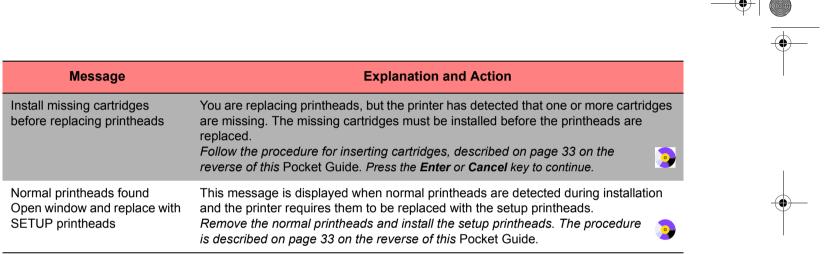
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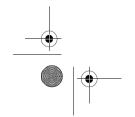
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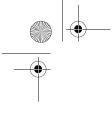










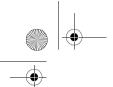


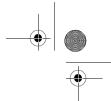
Message	Explanation and Action
Open window and check printhead cover is properly closed	You have replaced one or more printheads and the printer's check has found that the printhead cover is not securely closed. Open the window and check the printhead cover. The procedure is described on page 36 on the reverse of this Pocket Guide. Note: This message may also appear following a paper jam, as the printer cannot detect the exact reason for the problem. In this case you may have to resort to powering off the printer or even removing the power cable from the machine, in orde to recover from the problem. See "Removing Jammed Paper" on page 3.
Open window and check proper installation of setup printheads	During system start-up, which occurs when you first install the printer, you need to install the setup printheads. These special printheads cannot be used for printing, bu must be used when the printer has been powered off. The printer has detected that the setup printheads have not been installed correctly. Open the window and follow subsequent instructions to reinstall or relocate the setup printheads. Contact HP for advice if the setup printheads are missing or cannot be installed correctly.



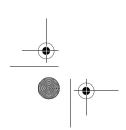






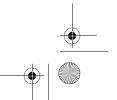


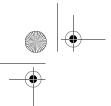
Message	Explanation and Action
Option not available now	You have selected an option in the menu that is not available at the moment. (The printer may be busy, out of ink, out of paper, etc.)
Out of memory. Data was lost	The file is too large to be processed by the printer. Simplify the print and try resending the job. Try setting the Print Quality (in the Setup menu) to Fast or Normal instead of Best . If the problem persists, you may have to add more memory to the formatter card that is installed in the back of the printer.
Out of paper	The printer ran out of paper while printing the calibration pattern. Load a sheet or roll that is at least 65 cm (25 inches) long and 50 cm (20 inches) wide.

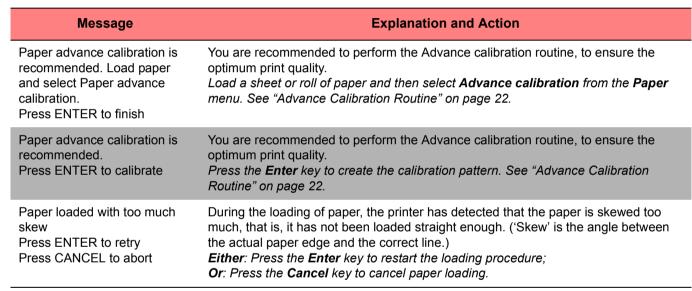












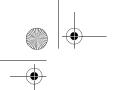










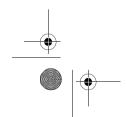






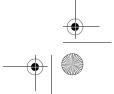


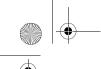
Message	Explanation and Action
Paper mispositioned	The paper is not properly positioned in the printer. Either it is out of the load line margins or it has moved too much from its previous position. Reload the paper following the normal procedure, to solve this problem. See "Loading a Sheet of Paper" on page 45 and "Loading a Roll of Paper" on page 56 on the reverse of this Pocket Guide.
Paper not found Press ENTER to retry Press CANCEL to abort	During the loading of paper, the printer has detected that no paper has been loaded. Either : Press the Enter key to restart the loading procedure; Or : Press the Cancel key to cancel paper loading.
Paper not present. Load paper to print calibration pattern	The paper axis calibration routine has been triggered with out having paper loaded. Load paper; see "Advance Calibration Routine" on page 22 for details of the routine.

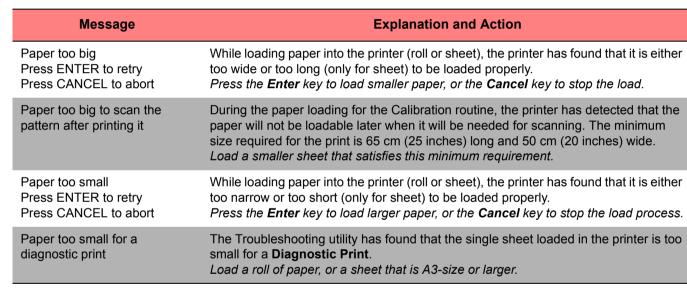










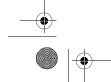


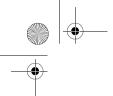


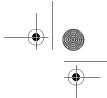




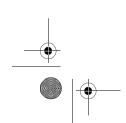




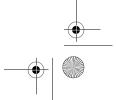


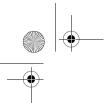


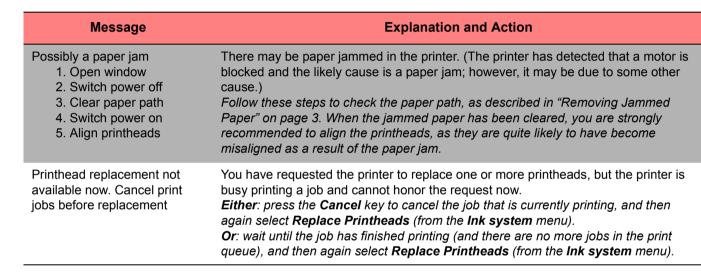
Message	Explanation and Action
Paper too small to align	The paper loaded is not big enough to contain the alignment pattern. Unload the paper (select Unload roll or Unload sheet from the Ink menu) and then load paper that is large enough—at least A4/Letter-size in landscape mode for Standard alignment, or A3/B size in landscape mode for Special alignment.
Paper too small to print the pattern	The paper loaded is not big enough to contain the paper axis calibration pattern. Load a roll or sheet that is at least 65 cm (25 inches) long and 50 cm (20 inches) wide.
Pattern not found Reload it again, please	The printer is trying to perform a scan of the calibration pattern, but the pattern was not found. Reload the sheet that was printed by the Create pattern part of the calibration routine.

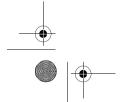








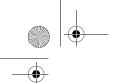


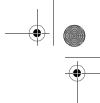




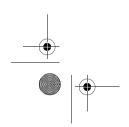






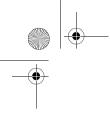


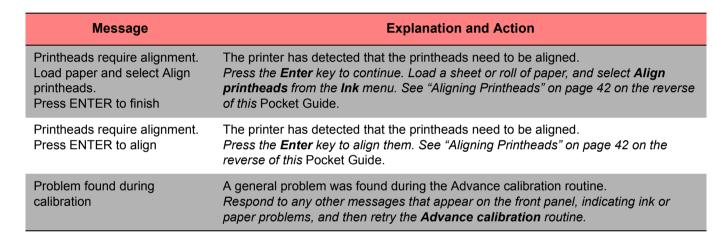
Message	Explanation and Action
Printhead warning Poor print quality	A problem has occurred with one or more printheads. The printheads are still functional. The problem was detected either during printhead alignment or during troubleshooting. If you have completed the routine, the system was unable to clean the printheads fully.
	You should use the Troubleshooting routine (see page 16) to correct any image quality problems that may be apparent; alternatively, you should replace the printheads (see page 36 on the reverse of this Pocket Guide).
PRINTHEADS not functional Replace printheads Cancel print	The printer is attempting to print a job, but finds that there is a problem with the printheads. You may either replace the printheads at this stage or cancel the print. Select the required option and press the Enter key. If you decide to replace them, you will be told which ones are failing or missing.

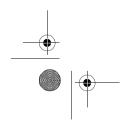


















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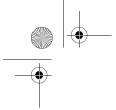


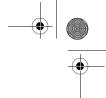












Message	Explanation and Action
Problems detected in INK CARTRIDGES. Continue process and replace them. Press ENTER to continue	There is an error with the ink cartridges during the preparation of the ink system. Press the Enter key and then follow the instructions to replace the faulty ink cartridges.
Reload paper	There is an error in the paper, as shown in another message. Use the normal procedure to reload the paper, as described on the other side of this Pocket Guide.
Replace empty cartridges before replacing printheads	You have requested the printer to permit the replacement of printheads, but the printer has detected that one or more cartridges are empty. The empty cartridges must be replaced before the printheads are replaced. Press the Enter key and follow the procedure for replacing empty cartridges, described on page 33 on the reverse of this Pocket Guide.

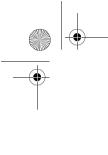


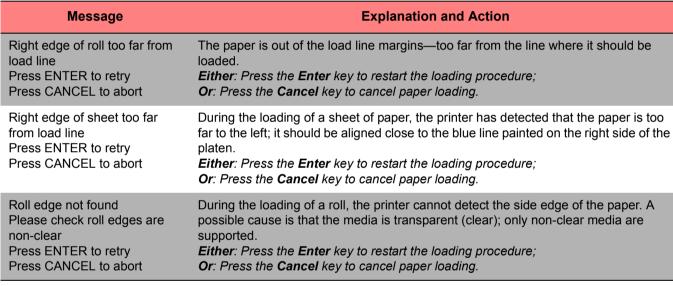




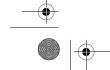








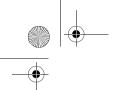






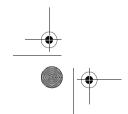


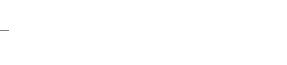






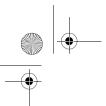
Message	Explanation and Action
Roll right edge too far from load line Press ENTER to retry Press CANCEL to abort	During the loading of a roll of paper, the printer has detected that the paper is too far to the left; it should be aligned with the blue line painted on the right side of the platen. Either : Press the Enter key to restart the loading procedure; Or : Press the Cancel key to cancel paper loading.
Sheet edge not found Please check sheet edges are non-clear Press ENTER to retry Press CANCEL to abort	During the loading of a sheet, the printer cannot detect the side edge of the paper. A possible cause is that the media is transparent (clear); only non-clear media are supported. Either: Press the Enter key to restart the loading procedure; Or: Press the Cancel key to cancel paper loading.
Sheet not loaded Load sheet with printed pattern	The printer is trying to perform a scan of the calibration pattern, but no sheet was found. Load the sheet that was printed by the Create pattern part of the calibration routine.

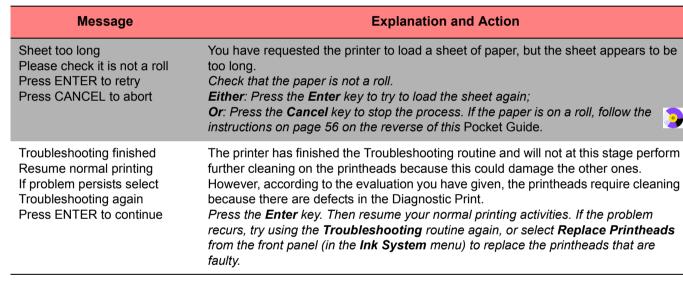










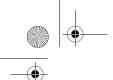


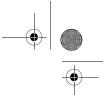




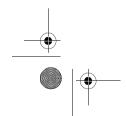






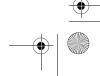


	Message	Explanation and Action
	Troubleshooting requires paper for a diagnostic print.	The Troubleshooting utility has found that there is no paper loaded in the printer. Load a roll of paper.
	Unable to initialize ink system. Call HP representative.	The system cannot successfully complete the startup. Call HP for service.
	Unable to prepare ink system. Open window to check SETUP printheads	During ink system start-up, the purge of the ink system has failed and the system is asking you if the preparation has completed. Check the setup printheads and then follow the instructions in the front panel and respond to further questions.
	Unknown ink cartridges. Press ENTER to continue.	The ink cartridges are not recognized by the printer as ink cartridges approved by HP, and there is at least one that is new. Press the Enter key.

















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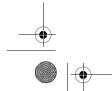


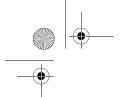


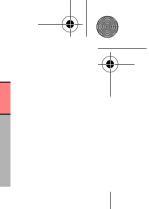
Message	Explanation and Action
Unknown paper format Reload paper	The format (roll or sheet) of the paper loaded in the printer is unknown. Reload the paper following the normal procedure, to solve this problem. See "Loading a Sheet of Paper" on page 45 or "Loading a Roll of Paper" on page 56 on the reverse of this Pocket Guide.
Unknown paper type Select paper type	The type of the paper loaded in the printer is unknown to the printer. Select a known paper type from the printer menu.
Unknown printheads. Press ENTER to continue.	The printheads are not recognized by the printer as printheads approved by HP, though the printer can still use them. Press the Enter key.
Warning: color calibration not done on this paper type	The printer has detected that the color calibrations have not been performed on this paper type, and the system is configured to do them. To calibrate color for the current paper type, select $Ink \ menu \rightarrow Color \ calibration \rightarrow Calibrate \ paper$.











Message	Explanation and Action
Warning! Machine calibrations need to be performed. Refer to guide for instructions.	The color calibrations for the paper that is loaded have been lost. Follow the procedure described in "Advance Calibration Routine" on page 22.
Warning: printheads not aligned	The printer has detected that the printheads have not been aligned since the last replacement. You should align the printheads by selecting Align printheads from the Ink menu.

