

Troubleshooting

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Guide to Troubleshooting the Printer

Introduction

This chapter will guide you through the relevant steps to take when troubleshooting the printer.

Troubleshooting System Error Codes

Chapter 2 - *System Error Codes* contains a list of system error codes and their respective descriptions and recommended corrective actions. Only try one recommended action at a time and check if the error code has disappeared.

If you have an error code which is not documented in this Service Manual or you have an error which you cannot resolve, then report the error to the HP Response Center or the nearest HP Support Office. When reporting the error, have the following information ready:

- Model and Serial Number of the printer.
- Which firmware revision the printer is using (See Note below). Check firmware in *Utilities / Statistics / Code rev.*
- The complete error number (See Note below).
- The Service Configuration Print.
- The Current configuration sheet.
- Which software application the customer is using (name, version, etc.).

When reporting the System Error Code, make sure that you supply the full Error Code and the firmware version. Without this information, HP Support Personnel cannot help you.

Performing a Service Test on a Failed Assembly

If possible, always perform a Service Test on the component/assembly that you are about to replace, just to make sure that is the component/assembly that has failed.

If the test on that component/assembly passes, you should NOT replace it.

For information on the Service Tests and how to use them see Chapter 4 - *Service Tests and Utilities*.

Performing the Necessary Service Calibrations

Is the printer calibrated correctly after replacing a component? For information on the Service Calibrations and how to use them see Chapter 5 - *Service Calibrations*.

Remember that certain Calibrations are required even if an Assembly has been disassembled to gain access to another Assembly or Component.

Solving Print Quality Problems

Whenever a Print Quality problem appears, it is advisable to print the Diagnostic Print to help diagnose the problem. The Diagnostic Print will help you differentiate between possible printhead errors and other problems such as incorrect front-panel selection, driver or RIP configuration or mechanical problems. For information on solving Print Quality problems see Chapter 6 - *Print Quality*.

The Printer does not Power ON

- 1 Check that the power cord is connected correctly to the Printer and to the Power Socket.
- 2 Check that the Power Switch on the BACK of the Printer is in the ON position.
- 3 Check to see if any of the LEDs on the Power Switch are On. If any of the LEDs are On, then refer to Page 1-13 for more information.
- 4 Check that the Front-Panel Cable is correctly connected to the Electronics Module. Also make sure that the Front-Panel cable is not damaged.
- 5 Replace the Power Supply Unit ⇒ Page 8-78.

The Printer Continuously Rejects Printheads

- 1 Clean the flex contacts on the Printhead and in the Carriage Assembly using the Carriage Interconnect Wiper (Refer to Chapter 3) and try again.
- 2 If ALL the Printheads are rejected (the status message on the Front Panel does NOT show "OK" for ALL the Printheads) then perform the Electronic Systems Test ⇒ Page 4-17.

Cover Sensors are not Working

- 1 Perform the Sensors Test ⇒ Page 4-28.
- 2 Check if the cable for the faulty sensor is not damaged and is connected correctly.
- 3 Replace the faulty Sensor.

The Line Sensor has Problems Detecting Media

- 1 Check the type of media that is being used since the Line sensor may have problems detecting transparent media or some types of Non-HP media. Try loading white HP media in to the Printer and check if the Line sensor detects it.
- 2 Excessive ink deposits on the Platen surface can fool the sensor by reflecting the light. Clean the Center Platen.
- 3 The Line Sensor is not calibrated correctly. Perform the Line Sensor Calibration ⇒ Page 5-16.
- 4 The Line Sensor is damaged or faulty. Replace the Line Sensor ⇒ Page 8-89.

Troubleshooting Media Jams/Printhead Crashes

If using HP Coated Media when problem occurred, please also refer to Page 1-6.

The failure modes "media jam" and "head crash" are grouped together because in many cases a media jam causes the media to lift up into the Carriage path and cause a Printhead crash, thus causing many media jam failures to be reported as head crashes.

- 1 Did the media jam occur when loading media?
 - If the client has had media jams, it is common for pieces of media to get stuck in the media path. Clear the media path.

When clearing a media jam, sometimes media is stuck in the paper path. To clear this, you must lift the Pinchwheel Lever and insert thicker media into the paper path to push out the media that is still stuck there.

- 2 Is the customer using non-HP media?
 - The use of non-HP media can easily be the cause of media jams and head crashes (especially head crashes because HP media is specially formulated to avoid cockle, one of the primary causes of head crashes). If the media is not HP approved, advise the customer to use HP media and check to see if the problem is now solved.
- 3 Check that the Vacuum Fan works correctly.

Troubleshooting Shutdowns

If a shutdown occurs, you will get the message "Switch Power Off" followed by:

- Check Printhead Cleaner Path.
- Check Paper Path.
- Check Printhead Path (followed by (1), (2) or (3)).

A shutdown in each path will require different steps to resolve the problem as explained as follows.

In each case, make sure that you power OFF the printer before attempting any procedures to resolve the problem.

Printhead Cleaner Path

- 1 Open the right door of the printer and check for any visible obstacles restricting the movement of the Service Station. Manually move the Service Station, checking for smooth and free movement.

Paper Path

- 1 Open the Window and check for any visible obstacles restricting the movement of the Drive Roller. If there is a wrinkled mass of media inside the paper path, lift the Pinch wheels (using the Media Load Handles) and clear the obstruction.
- 2 If this shutdown happens at the end of a Roll of Media, it could be because the media is stuck firmly to the Roll. Lift the Pinch wheels (using the Media Load Handles) and pull the media clear.
- 3 Replace media spindle if broken.
- 4 Replace the Media-Axis Motor ⇒ Page 8-62.

Printhead Path

When a shutdown occurs in the Printhead path, you will get the message "Switch Power Off / Check Printhead Path (*). The (*) will be a number, which will give an indication on where the failure occurred:

PWM Shutdown (1) and Energy Shutdown (3)

- 1 Clean Slider Rods and Apply Oil along the complete axis of the Slider Rods. After applying the Oil, perform the Scan-Axis Test ⇒ Page 4-7 and check that the values are within the given limits.
- 2 Replace the Scan-Axis Motor ⇒ Page 8-59.

Velocity Shutdown (2)

- 1 Open the Window and check for any visible obstacles restricting the movement of the Carriage Assembly. Try and move the Carriage Assembly manually, checking for smooth and free movement.
- 2 Check that the Encoder Strip is clean. If necessary, clean Encoder Strip using a damp cloth.

Vacuum suction much lower at high altitudes

At altitudes above 3,000 meters, the vacuum force holding down the media will be lower, therefore the media will not be held in place properly causing:

- Ink Smearing on the Media.
- Printhead crashes against the Media.
- Cut Sheet loading problems (high probability).
- Roll Media loading problems (low probability).

PRINTER LIMITATION - NO SOLUTION AVAILABLE.

Banding at variable extreme environmental conditions

Since the Accuracy Calibration has been done at normal environmental conditions, printing in extreme environmental conditions will cause banding because the advance of the Drive Roller does not correspond to the same conditions that the calibration was done in. To solve the problem, try the following:

Perform the Accuracy Calibration in the new environmental conditions (Refer to the User's Guide).

Printhead Crashes/Smears on High Density Prints Using Coated Media

High density prints can cause cockle mainly on HP Coated Media. This causes two main problems:

1. Cockling in the borders - Because the printer places too much ink on the Coated Media, the borders of the print become raised, causing the Printhead to crash against the media. To solve the problem, try the following:
 - Change the paper margins to 15mm, either in the Front Panel or in the Driver. If the customer is printing PostScript images, send them a PPD file containing the extended margins of 15mm.
2. Cockling within the print - If the Printer places too much ink within the print, the media starts to ripple, causing the Printhead to smear against the media. To solve the problem, try the following:
 - Check in the Front Panel if **Ink Limiting** is ON or OFF. If Ink Limiting is OFF, turn it ON.
 - Never use HP Coated Media for High Density prints. As a substitute use HP Heavy Coated Media.

Banding due to Ink Cartridge replacement while printing

A user has removed the Ink Cartridge while the printer was printing, which has caused the printer to stop. If the user does not replace the Ink Cartridge immediately, when the printer starts to print again, a band will appear in the position where the printing restarted. This is because the wet ink interacts with the dried ink on the media causing the band to appear. To solve the problem, try the following:

- Do NOT remove the Ink Cartridge while the Printer is Printing. Only replace/remove Ink Cartridges in between Prints.
- If the Ink Cartridge was replaced due to the "Empty" status on the Front Panel, then advise the customer to replace the Ink Cartridge when the "Very Low" status is showing on the Front Panel.
- Reprint the file (without remove the Ink Cartridge).

34" Rice Paper not supported

Roll length is 34" (Non-standard) and the pinch wheels can't control edge of media causing ink smears and Printhead crashes in middle of prints with or without area fills.

PRINTER LIMITATION - NO SOLUTION AVAILABLE.

Cut Sheet rice paper loading failure

Thin rice paper is sucked into the Center Platen grooves and Linear Blade Ridge. This implies that the friction between the Center Platen and the rice paper becomes higher than between the Overdrive wheels and the paper. This effect make it almost impossible to load the rice paper correctly because the Vacuum is too high.

PRINTER LIMITATION - NO SOLUTION AVAILABLE.

Worm marks on HP Coated media with light area fills

Light bands (S-shaped) in Paper axis direction where light area fills are printed, causing unacceptable Image Quality defect.

- Print the Service Configuration Print and check if the level of Humidity is very low (below 30%). Increasing humidity may help in reducing the severity of the problem.

The media is causing the problem and NOT the Printer. Do not attempt to try and replace Printer parts to solve this problem.

Solving Media-Handling Problems

The Front Panel Keeps Indicating that Media Is Misaligned or Incorrectly Positioned

Roll media

- The roll may be loaded the wrong way. The paper should load over the roll toward you.
- Check that the paper is correctly loaded onto the spindle.
- The paper may be loaded at an angle. The right-hand edge must be aligned with the blue line on the Print Platen.

Ensure that the paper is wrapped tightly on the roll. This is a very important step to remember because if this is not done, the media may be loaded at an angle, causing the media to be rejected.

Sheet media

- It must be loaded with the right-hand edge against the blue line on the Print Platen.
- The media may be crumpled or warped or may have irregular edges.
- If hand-cut media is used, the edges may not form a right-angle or they may be rough. If possible, hand-cut media should not be used. Only purchased sheet media should be used in the Printer.
- If the overdrive is covered in dust, it will have problems picking up the sheet media during the load process. Clean the Overdrive using the Turn Drive Roller Service Utility ⇒ Page 4-53.

Using the Buzzer at Power-up to Troubleshoot

When the Printer is powered up, it doesn't make a "Beeping Sound" until it is completely powered-up and ready to use. If there is a beep during the power-up sequence, this may signify that there is a problem within the Electronics Module. The following table will help you to use the "Beeping Sound" to diagnose certain problem:

Number of Beeps	Problem Description	Corrective Action
1	Processor absent	■ Replace the Main PCA ⇒ Page 8-74.
2	Faulty Main PCA or PSU	■ Replace the Main PCA ⇒ Page 8-74. ■ Replace the PSU ⇒ Page 8-78.
3	Faulty Memory Module	■ Check that the Memory Module is installed correctly. ■ Try installing the Memory Module in the other Memory slot and check if the problem reappears. ■ If the problem reappears, replace the Memory Module ⇒ Page 8-72. ■ If the problem does NOT reappear, then the original slot could be faulty. In this case, replace the Main PCA ⇒ Page 8-74.
4	Faulty Video Card (not used)	■ Replace the Main PCA ⇒ Page 8-74.
5	Faulty PCI Card	■ Replace the Main PCA ⇒ Page 8-74
6	BIOS Damaged	■ Replace the Main PCA ⇒ Page 8-74
7	Motherboard damaged	■ Replace the Main PCA ⇒ Page 8-74
8	Hard Disk Drive damaged or missing	■ Remove the Main PCA Cover and (with the Printer switch On) check that the HDD is spinning (you should feel it spinning when you touch it or at least hear it spinning). If the HDD is not spinning, then it could be damaged. In this case, replace the HDD ⇒ Page 8-76. ■ Make sure that ALL cables connected to the HDD are not damaged and are connected correctly. ■ Replace the HDD ⇒ Page 8-76 ■ Replace the Main PCA ⇒ Page 8-74

Using the Power-up Sequence to Troubleshoot

When the Printer is powered up, it performs the Boot-UP sequence which initializes the major components of the Printer. If for some reason the Boot-Up sequence fails because a component has failed to initialize, the following explanations will help you to locate the failing component:



Step	Initialization Process
BULNEX KERNEL BOOT	
30	rc.sysinit rerun through initlog.
29	<ul style="list-style-type: none"> ■ Environmental variables PATH, NETWORKING, HOSTNAME set. ■ Source /etc/init.d functions.
28	<ul style="list-style-type: none"> ■ Fix console loglevel. ■ Mount /proc. ■ Dismount the initrd, if necessary. ■ Configure kernel parameters.
27	Set the system clock.
26	Load keymap.
25	Load system font.
24	Start up swapping.
23	<ul style="list-style-type: none"> ■ Set the hostname. ■ Initialize USB controller and HID devices
22	<ul style="list-style-type: none"> ■ Set variables for options to be later used for filesystem check ■ Turn Off DMA on CD-ROMs ■ Turn On Hard Disk optimization
21	Perform file system check on root volume.
20	Update quotas if fsck was run on root
19	Setup pnp

Step	Initialization Process
18	<ul style="list-style-type: none"> ■ Remount the root filesystem read-write. ■ LVM initialization. ■ Clear mtab. ■ Enter root, /proc and (potentially /proc/bus/usb and devfs into mtab. ■ Remove /lib/modules/preferred and /lib/modules/default. ■ Tweak isapnp settings if needed. ■ Load sound modules if the need persistent DMA buffers.
17	<ul style="list-style-type: none"> ■ Load modules from /etc/rc.modules. ■ File system check. ■ Add raid devices.
16	<ul style="list-style-type: none"> ■ Setup Logical Volume Management. ■ Check filesystems on all volumes found on /etc/fstab.
15	Mount local filesystems.
14	Check remaining quotas other than root.
13	Enable local filesystem quotas.
12	<ul style="list-style-type: none"> ■ Configure machine if necessary (if the respective configure files exist). ■ Reread in network configuration data.
11	<ul style="list-style-type: none"> ■ Clean out /etc, (w/u)tmpx files, /var. ■ Reset pam_console permissions. ■ Cleanup utmp/wtmp. ■ Delete X locks. ■ Delete VNC and X locks. ■ Delete Postgres sockets. ■ Turn On swap in case we swap to files.
10	<ul style="list-style-type: none"> ■ Initialize the Serial Ports. ■ If a SCSI tape has been detected, load the st module unconditionally. ■ Load usb storage to match most other things. ■ If ide-scsi is required, load it. ■ Generate a header that defines the boot kernel.
9	<ul style="list-style-type: none"> ■ Dump the syslog ring in /var/log/dmesg. ■ Keep kernel symbols in /var/log/ksyms. ■ Create the crash indicator flag to warn on crashes, offer fsck with timeout.
8	Export this variable BOOT_PART and INSTALL_PART.

Step	Initialization Process
PRINT APPLICATION STARTING POINT	
7	IO kernel mode initialization (basically).
6	Printer Application Infrastructure startup.
5	Printer IO startup.
4	Front Panel application startup (but wait for engine launching, i.e. Front Panel is not cleared yet).
3	Engine startup, start EE and Mechanical initialization.
2	HPGL/PS parsers startup.
1	All subsystems launched. Wait for Front Panel application to clear the Front Panel and start signaling the initialization sequence.

Corrective Actions for Power-Up Problems

- 1 If the Printer's Power-Up process stops when the front panel is displaying the number **17**, this indicates that there is a problem with the file system on the Printer's Hard Disk Drive, so the Printer is checking the whole file system and making any necessary corrections. This problem can arise when there has been a power cut while the Printer was switched On, or if there is a physical problem with the Hard Disk Drive.

Checking the whole file system normally takes about half an hour (but could take much longer). There is nothing that can be done to speed up the file checking process. If you turn Off the Printer during the checking process, the file system check will restart whenever you turn it On again.

If you experience this problem repeatedly when there has been no power cut, then this could mean that the Hard Disk Drive is faulty. In this case, replace the Hard Disk Drive ⇒ Page 8-76.

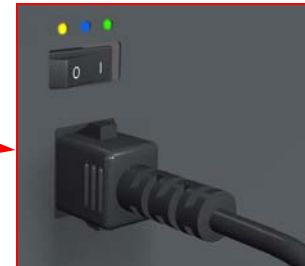
- 2 If the printer's start-up process stops when the front panel is displaying any number between **1** to **30**, then try the following:
 - Switch the Power OFF from the back of the Printer and disconnect the Power cord. Reconnect the power cord and power On the Printer.
 - If the Printer continues to stop during the power-up process, replace the Hard Disk Drive ⇒ Page 8-76.

Using the Power Switch LEDs to Troubleshoot

In certain circumstances, the LEDs located on top of the power switch (located at the rear of the Printer) can help to troubleshoot the Printer. The LEDs can either be ON or Off and using different combinations can indicate different problems:



Make sure you look directly at the LEDs and not at an angle.



Amber is on the Left
Blue is in the center
Green is on the Right

- 1 When only the **Amber LED** is On:
 - The Printer has been switched Off from the Front Panel (after having pressed the On/Off button).
 - The Power Supply Unit only delivers a 5 V "Standby"; power that is needed to restart the Printer after the Front Panel On/Off button is pressed (the Formatter/Main PCA will initiate the Printer to start).
- 2 When the **Blue LED** is On: Deliver standard "ATX" power for the Electronics Module PCAs (+12V, +5V, -5V, -12V, etc...). All the functions of the Electronics Module are fully operational (EWS, etc...).
- 3 When the **Green LED** is On: Deliver "analog" 24V and 42V to enable printing.

The Printer monitors and reports different signals: PSU fan issues, 24V and 42V delivery failures (specific System Error reported pointing to PSU failure).

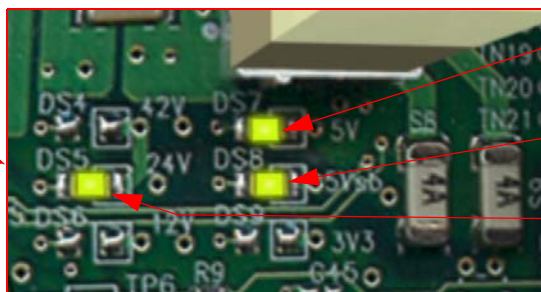
PSU Blue LED Status	PSU Green LED Status	Left LED (on Front Panel) Status	Printer Status
ON	OFF	Red (Front Panel Black)	Standby (with Embedded Web Server up and running)
ON	OFF	Green (flashing)	Initializing
ON	ON	Green	Ready (but not printing)
ON	ON	Green	Printing or preparing to print
OFF	ON	Any	Not possible
ON	ON	Red (Front Panel Black)	Not possible

Using the PCA LEDs to Troubleshoot

In certain circumstances, the LEDs located on the Interconnect PCA and PrintMech PCA can help to troubleshoot the Printer. The LEDs can either be ON or Off and using different combinations can indicate different problems:



Interconnect PCA



5V

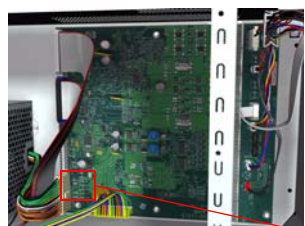
5Vsb

24V

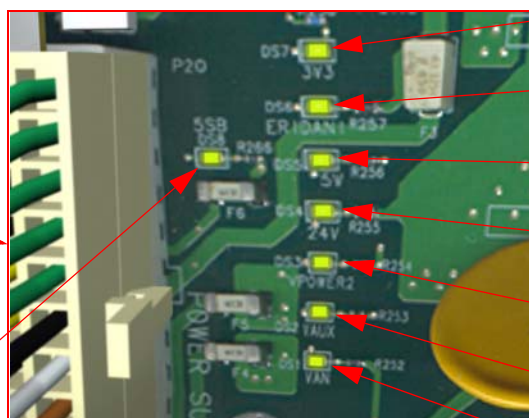
5V - Comes from the PSU after the fuse on Interconnect PCA. Used to power On Front Panel and some Interconnect Electronics. Should be ON at the same time as Blue Power Switch LED.

5Vsb - Comes from the PSU after the fuse on Interconnect PCA. Used to power On the Printer from the Front Panel. Should be ON at the same time as Blue or Amber Power Switch LED.

24V - Comes from the PSU after the fuse on Interconnect PCA. Used to power the Carriage PCA. Should be ON at the same time as Green Power Switch LED.



PrintMech PCA



3V3

ERIDANI

5V

24V

VPOWER2

VAUX

VAN

5SB

5Vsb - Comes from the PSU after the fuse on PrintMech PCA.

3V3 - Comes from the Power Supply Unit.

5V - Comes from the Power Supply Unit.

ERIDANI - Specific power line from PSU which powers ERIDANI chip after a fuse on PrintMech.

24V - Comes from the PSU after a fuse on the PrintMech PCA.

VPOWER2 - Comes from the PSU (42V) after a fuse on the PrintMech PCA.

VAUX - Comes from the PSU (12V) after a fuse on the PrintMech.

VAN - Is generated in the PrintMech PCA (reference tension is generated from ERIDANI IC). The value is around 5V. If this LED is **not** ON, and the others are ON, this indicates that there is high probability that the PrintMech PCA is defective.

1 If the Printer cannot be turned ON:

Signal	LED on Interconnect PCA	LED on PrintMech PCA	Power Switch LED	Corrective Action
5Vsb	OFF	ON	Amber	<ul style="list-style-type: none"> Check the connection between the PSU and the Interconnect PCA. If connection OK, replace the Interconnect PCA ⇒ Page 8-64.
5Vsb	ON	OFF	Amber	<ul style="list-style-type: none"> Check the connection between the PSU and the PrintMech PCA. Make sure that ALL cables between the PSU and PrintMech are not damaged and are connected correctly.
5Vsb	OFF	OFF	Amber or no LED	<ul style="list-style-type: none"> Check the connection between the PSU and the PrintMech PCA and Interconnect PCA. If connection OK, check that power reaches the PSU (check the power outlet). If power reaches PSU, replace the PSU ⇒ Page 8-78.

2 If the Printer starts (after having pressed the ON button on the Front Panel) but the front Panel remains black:

Signal	LED on Interconnect PCA	LED on PrintMech PCA	Power Switch LED	Corrective Action
5V	OFF	ON	Blue	<ul style="list-style-type: none"> Check the connection between the PSU and the Interconnect PCA. If connection OK, replace the Interconnect PCA ⇒ Page 8-64.
5V	ON	ON	Blue	<ul style="list-style-type: none"> Check the connection between the Front Panel and the Interconnect PCA. If connection OK, replace the Interconnect PCA ⇒ Page 8-84 and the Front Panel ⇒ Page 8-20.

- 3** The Printer is up and running, or may have a System Error at the end of the power-up sequence. For the Carriage PCA connection, perform the Scan-Axis Test ⇒ Page 4-7:

Signal	LED on Interconnect PCA	LED on PrintMech PCA	Power Switch LED	Corrective Action
5V	OFF	ON	Blue	<ul style="list-style-type: none"> ■ Check the connection between the PSU and the Interconnect PCA. ■ If connection OK, replace the Interconnect PCA ⇒ Page 8-64.
24V	ON	ON	Blue and Green	<ul style="list-style-type: none"> ■ Check the System Error that is produced and run the corresponding Diagnostic Test (either Scan-Axis or Media-Axis Test).
24V	OFF	OFF	Blue and Green	<ul style="list-style-type: none"> ■ Check the connection between the PSU and the PrintMech PCA and Interconnect PCA. ■ If connection OK, run the Electronics Module Test to further diagnose the problem.
24V	OFF	ON	Blue and Green	<ul style="list-style-type: none"> ■ Check the connection between the PSU and the Interconnect PCA. ■ If connection OK, run the Electronics Module Test to further diagnose the problem.
24V	ON	OFF	Blue and Green	<ul style="list-style-type: none"> ■ Check the connection between the PSU and the PrintMech PCA. ■ If connection OK, run the Electronics Module Test to further diagnose the problem.

- 4** On the PrintMech PCA, if the 3V3 LED is ON, 5V LED is ON, ERIDANI LED is ON, VAUX LED is ON and the VAN LED is OFF, then try the following:
- Run the Electronics Module Test to further diagnose the problem.
 - Replace the PrintMech PCA ⇒ Page 8-84.
- 5** If the Power Switch LED is Green and the 3V3 LED is ON, 5V LED is ON, ERIDANI LED is ON, VAUX LED is ON, VAN LED is ON and the VPOWER2 LED is OFF, then try the following:
- Check the connection between the PSU and the PrintMech PCA.
 - Run the Electronics Module Test to further diagnose the problem.
 - Replace the PrintMech PCA ⇒ Page 8-84.

How to Interpret the Service Information Pages

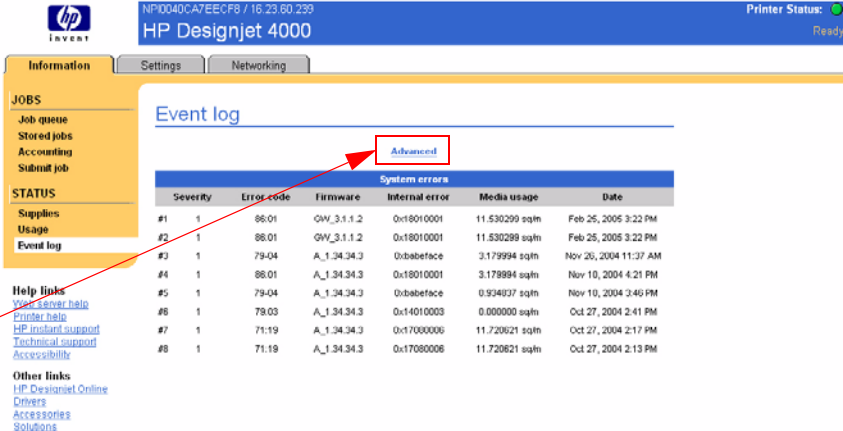
The Service Information Pages contain the following information:

- Current Information.
- Printer Usage Information.
- Event Logs.
- Calibration Status.
- Network and I/O Configuration.

It is possible to print the Service Information Pages either through the Front Panel or through the Embedded Web Server:

- Front Panel: Setup menu ⇒ Information Menu ⇒ Internal Prints ⇒ Print Service Information.
- Embedded Web Server: Information ⇒ Event Log ⇒ Advanced

Even the Printer cannot print, the Information Pages are still accessible through the Embedded Web Server.



EWS Event Log Page - Advanced Button

Severity	Error code	Firmware	Internal error	Media usage	Date
#1	1	86:01	GW_3.1.1.2	0x18010001	11.530299 sqm Feb 25, 2005 3:22 PM
#2	1	86:01	GW_3.1.1.2	0x18010001	11.530299 sqm Feb 25, 2005 3:22 PM
#3	1	79:04	A_1_34.34.3	0xbabeface	3.179994 sqm Nov 26, 2004 11:37 AM
#4	1	86:01	A_1_34.34.3	0x18010001	3.179994 sqm Nov 10, 2004 4:21 PM
#5	1	79:04	A_1_34.34.3	0xbabeface	0.924037 sqm Nov 10, 2004 3:46 PM
#6	1	79:03	A_1_34.34.3	0x14010003	0.000000 sqm Oct 27, 2004 2:41 PM
#7	1	71:19	A_1_34.34.3	0x17000006	11.720621 sqm Oct 27, 2004 2:17 PM
#8	1	71:19	A_1_34.34.3	0x17000006	11.720621 sqm Oct 27, 2004 2:13 PM

Main Characteristics

- Each Service Information page fits on a sheet of A4/A-size media (so that it can be faxed if necessary).
- Only available in English (except the current information page).
- From the Front Panel, you can choose to print ALL pages or just select the specific pages that are needed. If ALL pages are printed:
 - Nesting is turned ON automatically (and turned OFF once all the pages have been printed).
 - Nesting cannot be mixed with other jobs in the queue.
- Each page can be printed from the Web browser when using the Embedded Web Server.
- Each page can be sent by e-mail from the Web Browser when using the Embedded Web Server (File ⇒ Send ⇒ Page by E-mail).
- You can see the same information through the Front Panel or the Embedded Web Server.

Current Media, Printhead and Ink Information

This page contains the following information:

- Current Printer Configuration.
- Paper Loaded Information.
- Current Printhead Kit Information.
- Current Ink cartridge Information.

The screenshot shows a web browser window displaying the HP DesignJet 4000 series printer's service information page. The page is titled 'Current Media, Printhead and Ink Information' and contains several sections of data.

Current Media, Printhead and Ink Information							
Date:	Feb 22, 2003	Product Name:	HP DesignJet 4000ps	Serial Number:	5044190080487		
Firmware version:	A_1.31.31.1	Product number:	G1274A	Service ID:	14112		
Current Printer Configuration							
Language:	English	Memory Size:	256 MB	Disk capacity:	40.0 GB		
Current Temperature:	26.6°C ±2°C	Current Humidity:	52% ±15%				
Paper Loaded Information							
Active Paper Path:	Roll	Paper Loaded Status:	OK	Media Type Selected:	Bright White Inkjet Paper		
Media Width:	1068 mm / 42.06 inches	Remaining Media Length:	not available				
Current Printhead Kit Info							
1 - Yellow	2 - Yellow	3 - Magenta	4 - Magenta	5 - Black	6 - Black	7 - Cyan	8 - Cyan
In warranty:	yes	yes	yes	yes	yes	yes	yes
Printhead Status:	Working	Working	Working	Working	Working	Working	Working
Printhead health (10→0):	10	10	10	10	10	10	10
Error ID Code:	0	0	0	0	0	0	0
Cleaner Status:	Working	Working	Working	Working	Working	Working	Working
Cleaner replaced with printhead:	Yes	No	Yes	No	Yes	No	Yes
Product Number:	C5067A	C5067A	C5066A	C5066A	C5054A	C5054A	C5055A
Product Name:	HP No 90	HP No 90	HP No 90	HP No 90	HP No 90	HP No 90	HP No 90
Serial Number:	16445235-14-8	16445235-14-8	16445235-14-8	16445235-14-8	16445235-14-8	16445235-14-8	16445235-14-8
Expiration Date:	20090408	20090408	20090408	20090408	20090408	20090408	20090408
Used with non-HP ink:	No	No	No	No	No	No	No
Ink Used:	6 ml	13 ml	7 ml	20 ml	10 ml	9 ml	14 ml
Warranty Spent:	0%	1%	0%	1%	1%	0%	1%
Usage Time:	961942 h	497319 h	43366 h	27967 h	244992 h	821668 h	183161 h
Maximum Recovery Level:	1	1	1	1	1	1	1
Start Ink Shutdown:	0	0	0	0	0	0	0
Current Ink Cartridge Info							
Yellow	Magenta	Black	Cyan				
Status:	Working	Working	Working				
Product Name:	HP No 90	HP No 90	HP No 90				
Product Number:	C5066A	C5062A	C5050A				
Serial Number:	1209096-15-8	1218528-15-8	2863113-24-8				
Install Date:	20040413	20040413	20040616				
Expiration Date:	20080917	20080917	20081122				
Manufacturer:	HP	HP	HP				
Capacity:	225 ml	225 ml	400 ml				
Ink Consumed:	135 ml	40 ml	12 ml				
Used with non-HP ink:	No	No	No				

The first two lines are available at the beginning of each Service Information Page and contains standard information (like Service ID, Firmware version).

Items of Interest

The items explained below are useful to know:

Current Media, Printhead and Ink Information							
Date:	Feb 22, 2003	Product Name:	HP DesignJet 4000ps	Serial Number:	5044190080487		
Firmware version:	A_1.31.31.1	Product number:	G1274A	Service ID:	14112		
Current Printer Configuration							
Language:	English	Memory Size:	256 MB	Disk capacity:	40.0 GB		
Current Temperature:	26.6°C ±2°C	Current Humidity:	52% ±15%				
Paper Loaded Information							
Active Paper Path:	Roll	Paper Loaded Status:	OK	Media Type Selected:	Bright White Inkjet Paper		
Media Width:	1068 mm / 42.06 inches	Remaining Media Length:	not available				

- **Temperature and Humidity:** The sensors are located on the ISS PCA (at the top of the Ink Cartridges).
- **Active Paper Path:** Whether Roll or Cut Sheet is currently loaded.
- **Remaining Media Length:** Currently this will show "not available" all the time since the media length tracking function is not available.

1 - Yellow	
In warranty:	yes
Printhead Status:	Working
Printhead health (10→0):	10
Error ID Code:	0
Cleaner Status:	Working
Cleaner replaced with printhead:	Yes
Product Number:	C5057A
Product Name:	HP No 90
Serial Number:	16445238-14-8
Expiration Date:	20080408
Used with non-HP ink:	No
Ink Used:	6 ml
Warranty Spent:	0%
Usage Time:	961942 h
Maximum Recovery Level:	1
Scan Axis Shutdown:	0

- **Printhead Status:** 'OK', 'Missing', 'Reset', 'Replace' or 'Remove'.
- **Expiration Date:** Manufacture date (date marked on the actual Printhead) + 24 months.
- **Used with non-HP ink:** Can be reset to NO only when a new Printhead has been installed and neither the Ink Tubes nor the Ink Cartridges have been marked as "Used with non-HP ink = Yes".
- **Warranty spent:** Percentage (%) versus 1000ml.
- **Scan Axis Shutdown:** Corresponds to a media jam.

1 - Yellow	
In warranty:	yes
Printhead Status:	Working
Printhead health (10→0):	10
Error ID Code:	0
Cleaner Status:	Working

- **Printhead Health:** This represents the number of nozzles out of service during the last drop detection that was performed.

Number of Nozzles Out	Printhead Health
< 5	10
> or = 5 and < 10	9
> or = 10 and < 20	8
> or = 20 and < 30	7
> or = 30 and < 50	6
> or = 50 and < 70	5
> or = 70 and < 100	4
> or = 100 and < 150	3
> or = 150 and < 200	2
> or = 200 and < 400	1
> or = 400	0

	Yellow
Status:	Working
Product Name:	HP No 90
Product Number:	C5064A
Serial Number:	1289696-15-8
Install Date:	20040413
Expiration Date:	20080917
Manufacturer:	HP
Capacity:	225 ml
Ink Consumed:	35 ml
Used with non-HP Ink:	no

- **Cartridge Status:** 'OK', 'Missing', 'Low', 'Very Low', 'Empty', 'Reset' or 'Replace'.
- **Expiration Date:** Manufacture date (date marked on the actual Ink Cartridge) + 30 months.
- **Install Date:** Corresponds to the internal date of the Printer (RTC) when the Ink Cartridge was installed for the first time.
- **Capacity:** Total capacity of the Ink Cartridge.

Printer Usage Information

This page contains the following information:

- Printer Usage.
- Usage per Printhead Slot.
- Usage per Cartridge Slot.
- Media Usage per Media Type.
- Component Usage.
- Spittoon Usage.
- Preventive Maintenance Usage.

http://15.180.36.190/hp/device/webAccess/servicePlot1b.htm - Microsoft Internet Explorer provid...

File Edit View Favorites Tools Help

Back Forward Stop Home Reload Search Favorites Media Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail Print Mail 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Media Used Sections

- Total media used in the Printer.

Printer Usage			
Total printed media:	12.12 m ² / 130.4 ft ²	Total number of prints:	31

- Media used for each media type.

Media Usage per Media Type			
High-Gloss Photo Paper (HP)	10.30 m ² / 110.9 ft ²	Productivity Photo Gloss (HP)	6.92 m ² / 74.4 ft ²
Bond Paper (HP)	6.81 m ² / 73.3 ft ²		

It is possible that the sum of the media used for each media type is lower than the total amount of media used in the Printer. This is because only the total media used in the Printer is saved in the backup EEROM which is located in the ISS PCA. When the Hard Disk Drive is replaced, the total media used per media type is reset to zero (0), but the total media used is recovered from the backup EEROM.

Printhead Section

The Printheads currently being used are not counted.

- **Total Insertions:** This is linked with the crane of the Ink Supply Tubes. When the Ink Supply Tubes are replaced, the total insertions amount will be reset to zero (0).

Usage per Printhead Slot								
	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8
Color:	Yellow	Yellow	Magenta	Magenta	Black	Black	Cyan	Cyan
Product Number:	C5057A	C5057A	C5056A	C5056A	C5054A	C5054A	C5055A	C5055A
Product Name:	HP No 90	HP No 90	HP No 90	HP No 90	HP No 90	HP No 90	HP No 90	HP No 90
Printheads Used:	0	0	0	0	0	0	0	0
Total Insertions:	1	1	1	1	1	1	1	1

Cartridge Section

The Ink Cartridges currently being used are not counted.

- This section is split by product name and number for each color as we have different Ink Cartridge sizes. The sample below does not represent the reality as we only have one size of Black Ink Cartridge (400cc).

3 - Black	
Product Name:	HP No 90
Product Number:	C5059A
Usage:	2 Cartridges / 3.816380 cc
Product Name:	HP No 90
Product Number:	C5058A
Usage:	1 Cartridges / 14.144599 cc

Preventive Maintenance Section

Once the value reaches 100%, the corresponding Preventive Maintenance Kit should be used. For further details, refer to Chapter 9 - Preventive Maintenance.

Preventative maintenance Usage	
Preventive maintenance kit #1	0 %
Preventive maintenance kit #2	0 %

Component Usage

One cycle is counted when the Carriage makes one movement to the left of the Printer and then returns to the right.

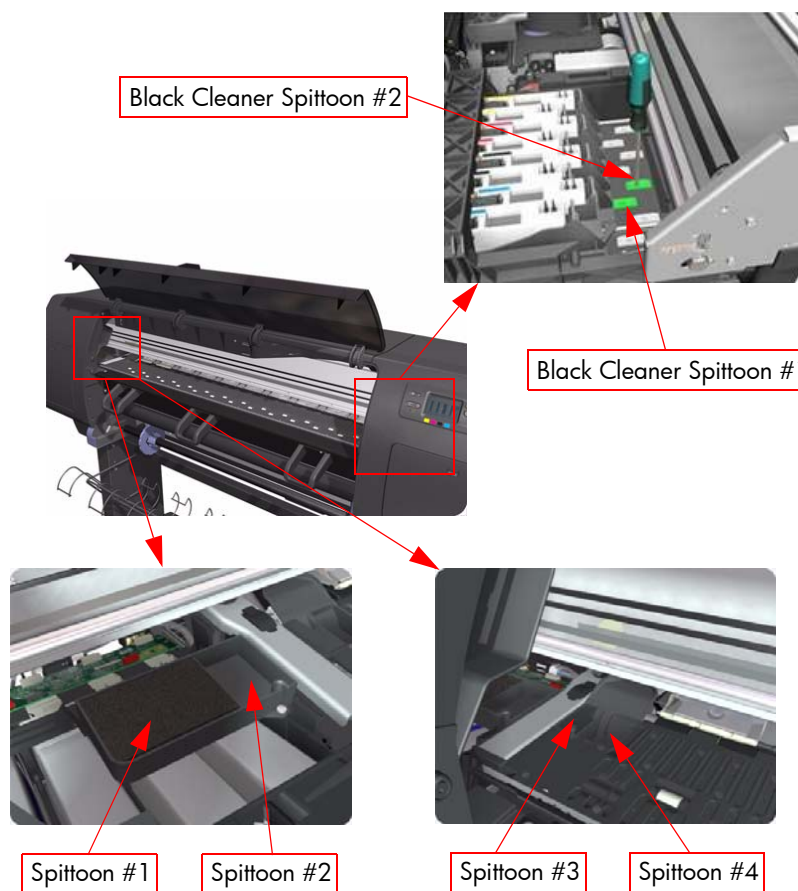
- **Tube used with non-HP ink:** This is set to **Yes** as soon as the Printer detects that at least one Ink Cartridge was used with third-party ink. This cannot be reset to **No** (because it is part of the ISS EEROM), except when:
 - The Ink Supply Tubes are replaced (not under warranty).
 - The Printer detects that the Ink Cartridge being used no longer uses third-party ink.

Component Usage			
Belt usage (# cycles):	2075	Motor usage (# cycles):	2075
Trailing cable usage (# cycles):	2075	Tube usage (# cycles):	2075
		Carriage usage (# cycles):	2075
		Tube used with non-HP ink:	No

Spittoon Section

This section contains information on the different Spittoons located in the Printer.

Spittoon Usage (Left to Right)			
Spittoon 1	0.00 cc	Spittoon 2	0.00 cc
Black cleaner spittoon 1	0.48 cc	Black cleaner spittoon 2	0.48 cc
Spittoon 3	0.00 cc	Spittoon 4	0.00 cc



Event Logs

This page contains the following information:

- Last 20 System Error Codes (which prevented the Printer from booting).
- Last 20 System Warnings (which did not prevent the Printer from booting, but which required the user to acknowledge the problem).
- Printhead Error log.

Event Logs

Date: Mar 4, 2005
Firmware version:

Product Name: GW_3.1.1.2
Product number:

HP DesignJet 4000
G1273A

Serial Number:
Service ID:

S04631901M
14309

System Errors							
Event #	Severity	Error Code	Internal Code	Firmware Version	Media Usage	Line	Date
1	severe	06:01	0x10010001	GW_3.1.1.2	11.530299	ScanAxis/GreatWall.cpp:666	20050225
2	severe	06:01	0x10010001	GW_3.1.1.2	11.530299	Carriage/ServoMotor.c:1537	20050225
3	severe	79:04	0xBAEFACE	A_1.34.34.3	3.178994	AnalogSensor/Common.cpp:620	20041126
4	severe	06:01	0x10010001	A_1.34.34.3	3.178994	ScanAxis/GreatWall.cpp:666	20041110
5	severe	79:04	0xBAEFACE	A_1.34.34.3	0.934027	AnalogSensor/Common.cpp:620	20041110
6	severe	79:03	0x14010003	A_1.34.34.3	0.000000	rpcLayer.c:766	20041027
7	severe	71:19	0x17000006	A_1.34.34.3	11.720621	NmCompound.cpp:1029	20041027
8	severe	71:19	0x17000006	A_1.34.34.3	11.720621	NmCompound.cpp:1029	20041027

System Warnings							
Event #	Severity	Error Code	Internal Code	Firmware Version	Media Usage	Line	Date
1	advisory	61:01	0x21000002	GW_3.1.1.2	10.995461	pm_utils.c:889	20050216
2	advisory	26:01	0x10020002	A_1.34.34.3	3.178994	inkSupply/InkWhal.cpp:5491	20041112
3	advisory	61:04.1	0x21010009	A_1.34.34.3	0.934037	ink.c:1005	20041108
4	advisory	26:01	0x10020005	A_1.34.34.3	11.720621	inkSupply/InkWhal.cpp:5494	20041027

Printhead Error Log							
	Printheads ago	Serial Number	Status	Usage time	% Ink Used	Max Recovery	Error Code
1 - Yellow	0	16455695-33-8	0	2 h	0	1	0
	1	16462452-33-8	0	2 h	0	1	0
2 - Yellow	0	16462452-33-8	0	2 h	0	1	0
	1	16455695-33-8	0	2 h	0	1	0
3 - Magenta	0	16461007-33-8	0	2 h	0	1	0
	1	16462034-33-8	0	2 h	0	1	0
4 - Magenta	0	16462034-33-8	0	2 h	0	1	0
	1	16461007-33-8	0	2 h	0	1	0
5 - Black	0	16429970-25-8	0	2 h	0	1	0
	1	16429727-25-8	0	2 h	0	1	0
6 - Black	0	16429727-25-8	0	2 h	0	1	0
	1	16429970-25-8	0	2 h	0	1	0
7 - Cyan	0	16455974-33-8	0	4 h	0	1	0
8 - Cyan	0	16455953-33-8	0	4 h	0	1	0

System/Warning Error

- The **Line** and **Internal Code** do not provide much information, but are useful in the case of escalating a problem to the division (different internal error codes can point to the same error code (e.g. 01.10:10)).
- **Media Usage** (in square meters) and **Date** (from the Printer's Internal Clock (RTC)) help you to understand if the Printer has been used (media usage) and how much time has passed since the last error.

Printhead Error Log

- **Printheads ago**: History of the last three Printheads used ('0' represents the current Printhead used).
- **Status**: '0' = Working, '1' = No Pen Detected, '2' = Replace, '4' = Reseat, '8' = Remove.
- **% Ink Used**: Percentage of the Warranty life (1000cc).
- **Error Code**: Specific error code generated by the Printer when the Printhead has been replaced.
- **Max Recovery**:
 - 0: No manual Printhead recovery has been performed on the Printhead.
 - 1 or higher: At least one Printhead recovery has been performed.

Printhead Error Log							
	Printheads ago	Serial Number	Status	Usage time	% Ink Used	Max Recovery	Error Code
1 - Yellow	0	16455695-33-8	0	2 h	0	1	0
	1	16462452-33-8	0	2 h	0	1	0
2 - Yellow	0	16462452-33-8	0	2 h	0	1	0
	1	16455695-33-8	0	2 h	0	1	0

Calibrations Status

This page contains the following information:

- General Calibrations (performed by Service Engineers).
- Media Specific Calibrations (performed by the User).

Information on these 3 Calibrations will be added in Firmware Version 4.x.x.x

In Firmware Version 4.x.x.x the following text will also be added here:

"3 Calibrations are not reported within this list: 'Blue Line Calibration', 'Carriage PCA Setup' and 'Vacuum Fan'."

Calibrations Status

Date: Aug 23, 2004
Firmware version: A_1.32.32.15

Product Name: HP Designjet 4000ps
Product number: Q1274A

Serial Number: 5G44J190060868
Service ID: 14112

General Calibrations					
LED Gain Offset	not done	Line Sensor to Black	done	Drop Detector	not done
Paper Advance	done	Printhead Alignment	done		

Media-specific Calibrations					
Vendor	Media Name	Color	Paper Advance Text/drawing	Paper Advance Graphics	
HP	High-Gloss Photo Paper	pending	pending	calibrated	
HP	Inkjet Bond Paper	pending	pending	pending	
HP	Canvas	pending	pending	pending	
HP	Special Clear Film	pending	pending	pending	
HP	Coated Paper	pending	pending	pending	
HP	Productivity Photo Gloss	pending	pending	pending	
HP	Heavyweight Coated Paper	pending	pending	pending	
HP	Matte Film	pending	pending	pending	
HP	Bright White Inkjet Paper	pending	pending	pending	
HP	Natural Tracing Paper	pending	pending	pending	
HP	Super Heavy Coated Paper	pending	pending	pending	
HP	Translucent Bond	pending	pending	pending	
HP	Universal Coated Paper	pending	pending	pending	
HP	Vellum	pending	pending	pending	

General Calibrations

- **LED Gain Offset** and **Line Sensor to Black** relate to the Line Sensor and these are done when performing the Line Sensor Calibration.
- **Drop Detector** relates to the Drop Detector or Service Station calibration.
- **Paper Advance** relates to the Service Paper Advance Calibration.
- **Printhead Alignment** relates to the Printhead Alignment which changes to 'pending' when a Printhead is replaced and the Printhead Alignment has not been performed.

When a component is replaced, the corresponding calibration is NOT automatically set to 'NOT DONE'. This is because the Printer does not know that there is a new part installed.

Media Specific Calibrations

This section shows the following for each type of media:

- **Color Calibration.**
- **Paper Advance** per media type and 'optimized for' Text/drawing and Graphics.