



HP DesignJet 2500CP
HP DesignJet 2000CP
Printers

**Quick Reference
Service Manual**

ENGLISH

© Copyright Hewlett-Packard Company 1997

This document contains proprietary information that is protected by copyright. All rights are reserved. No part of this document may be photocopied, reproduced, or translated into another language without the prior written consent of Hewlett-Packard Company.

First edition, November 1997

Warranty

The information contained in this document is subject to change without notice.

Hewlett-Packard makes no warranty of any kind with regard to this material, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

Hewlett-Packard shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

WARNING

The procedures described in this manual are to be performed by HP-qualified service personnel only.

Electrical Shock Hazard

Serious shock hazard leading to death or injury may result if you do not take the following precautions:

- Ensure that the ac power outlet (mains) has a protective earth (ground) terminal.
- Disconnect the Printer from the power source prior to performing any maintenance.
- Prevent water or other liquids from running onto electrical components or circuits, or through openings in the enclosure.

Product Support, Barcelona Division
Hewlett-Packard Española, S.A.
Avda. Graells, 501
08190 Sant Cugat del Vallès
Spain

Troubleshooting

Which Firmware relates to which Ink system?

A.01.XX - This firmware revision means that the Printer can **only** use Imaging Inks.

A.02.XX - This firmware revision means that the Printer can use both the Imaging Inks and the new UV Durable Inks.

Use the Latest Firmware / PostScript Revision

Always check which firmware revision the printer is using (*Utilities / Statistics / Code Rev*) and if necessary, update it. Also check the PostScript revision (*Utilities / Statistics / PostScript Rev*) and if necessary, update it.

Install the Firmware SIMM and PostScript SIMM in the correct slots

Remember that the Firmware SIMM (including the firmware code for the imaging and UV Durable Inks) must be installed in the first slot from the left. The PostScript SIMM must be installed in the second slot from the left.

Perform a Service Test on the Failed Component/Assembly

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, do NOT replace it.**

Solving Image Quality Problems

Whenever an Image Quality problem appears, print the Image Quality Print to help diagnose the problem. The Image Quality Print will help you differentiate between possible IDS / Printer / media errors and other problems such as incorrect front-panel selection, driver or RIP configuration or mechanical problems. For information on solving Image Quality problems ▶ Users Guide.

Line Sensor has Problems Detecting Media

Clean the drive-roller. Replace the lens cover ▶ Users Guide, Chapter 10 (Lens Maintenance). Perform the Line Sensor calibration. Reinstall or, if necessary, replace the Line Sensor.

Carriage is Noisy

Clean and apply lubricant to the Carriage slider rods. Perform Carriage Axis Test.

Service Station is Noisy

Clean and apply lubricant to the Service Station slider rod. Perform Service Station Test.

Printer continuously rejects Printheads

Clean Printhead and Carriage flex contacts. Remove all Printheads from the Carriage and try installing just the rejected Printhead. If the Printhead is still rejected then replace the Printhead with a new one. If the new Printhead is not rejected then check, one by one, if the other Printheads are also rejected. Perform the Printhead Continuity Test. Perform the Electronics Test. Replace the Trailing Cable. Replace the Carriage Assembly.

Bail Assembly does not lower all the way

Check that there are no obstructions in the way of the Bail Assembly. Perform the Bail Test.

Cover Sensors aren't Working

Check if the faulty sensor is installed correctly. Check if the cable for the faulty sensor is connected correctly. Replace the faulty Sensor.

Media continuously crashes

Check if the media loaded is HP approved. If the media is not HP approved, advise the customer to use HP media and check to see if the problem is now solved. Perform the Refill Calibration and try to load the media again. Replace the Overdrive Assembly. Remove the Drive Roller and install in the correct position.

“Switch Power Off / Check Printhead Path” message appears when the Printer is about to cut or is cutting?

Check the media path and clear it if necessary. Perform the Cutter Test. Replace the Cutter Assembly. Replace the Overdrive Assembly.

“Lens Maintenance” message appears on the Front-Panel?

The lens cover, which is installed on the line sensor, is dirty. Clean the Mark Encoder on the Driver Roller. Replace the lens cover ♦ Users Guide, Chapter 10 (Lens Maintenance).

Printer does not Power ON

Check that the power cord is connected correctly. Check that the Flash SIMM is installed correctly in the correct slot (the first slot from the left) at the back of the Printer. Try to disconnect all the cables, apart from the Front Panel Cable, from the Electronics Module and then try to power ON the Printer again. If nothing appears on the front-panel display, then replace the Electronics Module. If the Printer does Power On with the cables disconnected, then the problem must be with another component of the Printer. To find the faulty component, power OFF the Printer and connect one of the cables and power ON again. Once the faulty component is connected, it will not allow the Printer to power ON. This component should then be replaced.

Printer has problems with Media Loading

Check that the Media Sensor is installed correctly. Check if the cable for the Media Sensor is connected correctly. Check if the Pincharms are down (the Pincharm lever should be **up**). Make sure Line Sensor is installed correctly. If necessary, replace Line Sensor. Replace Media Sensor. Perform Electronics Test.

System Error Codes

WARNING: *Only replace one component at a time and check if the error has gone before replacing another component. Using this procedure you will be able to determine exactly which component failed.*

System Error: 0000D8 - Refer to System Error Code 07xxxx.

System Error: 010020 - Reseat/replace Flash SIMM. Replace Electronics Module.

System Error: 010021 AXXXXXXXX

NOTE: **Printer will not function without any RAM SIMMs installed. Install a minimum of 4MB memory module.**

- If Error Data is **higher** than A4000000, check RAM SIMMs are original HP supported parts. If more than one RAM SIMM is installed, remove one of them and power on the printer again. If system error reappears, reinstall the removed RAM SIMM and remove the other RAM SIMM and then power on the printer again. If system error reappears then try replacing both RAM SIMMs with new ones.
- If Error Data is **lower** than A4000000, replace Electronics Module.

System Error: 010022 - Replace Electronics Module.

System Error: 010023 - Check X-encoder and optical sensors (media, pinch-wheel, refill, elevator, primer and service station) cable path for damage. Replace Electronics Module.

System Error: 010025 - Replace Electronics Module.

System Error: 010030 - Check Refill/Service Station Interconnect Cables. Replace Refill Interconnect PCA. Replace Service Station Assembly. Replace Electronics Module.

System Error: 010031 - Check/replace Trailing Cable. Perform Carriage Calibration. Replace Carriage Assembly. Replace Electronics Module.

System Error: 010032 000000XX

Error data (XX):

1 → Electronics Module fan failed.

2 → Service station fan failed.

3 → Both fans failed.

10 → Electronics Module fan is short-circuited.

20 → Service Station fan is short-circuited.

30 → Both fans are short-circuited.

12 → Service Station fan is not running and the Electronics Module fan is short-circuited.

21 → Electronics Module fan is not running and the Service Station fan is short-circuited.

Try the following: Check the Service Station fan is connected correctly. If both fans fail, replace Electronics Module. If Service Station fan is faulty, check Service Station Interconnect Cable. Replace Service Station Assembly. Replace Electronics Module.

System Error: 010033 - Replace Electronics Module.

System Error: 010034 000X0000

Error data:

00010000 → X-axis Motor Failed.

00020000 → Y-axis Motor Failed.

00030000 → Both DC Motors Failed.

Try the following:

- Check that both DC Motors are connected correctly.
- If Faulty Y-axis motor:
 - Check Refill Interconnect Cable. Replace Refill Interconnect PCA. Replace Y-axis Motor Assembly.
- If Faulty X-axis Motor - Replace X-axis Motor Assembly .
- If both DC Motors fail, replace Electronics Module.

System Error: 010035 0XABCDEF

Error data (0XABCDEF):

If the value of each letter is **0**, then the component is OK. If the value of each letter is **1** then the component has failed.

X → Electronics signal failed (ignore other values).

A → Elevator Stepper Motor Failed.

B → Refill Stepper Motor Failed.

C → Primer Stepper Motor Failed.

D → Service station (Z-axis) Stepper Motor Failed.

E → Service station (X-axis) Stepper Motor Failed.

F → Bail Stepper Motor Failed.

Try the following:

- If **X = 1** then replace the Electronics Module.
- Check the Interconnect Cables.
- Check the failed Stepper Motor is connected correctly.
- If Bail, Elevator or the Refill Stepper Motors are faulty, then:
 - Replace Refill interconnect cable. Replace Refill interconnect PCA.
- If Faulty Primer or Service Station Stepper Motors - Replace Service Station Interconnect cable.
- If Faulty Elevator Stepper Motor - Replace Elevator Assembly.
- If Faulty Refill Stepper Motor - Replace Refill Assembly.
- If Faulty Primer Stepper Motor - Replace Primer Assembly.
- If Faulty Service Station Stepper Motors - Replace Service Station Assembly.
- If Faulty Bail Stepper Motor - Replace Bail Stepper Motor Assembly.
- Replace Electronics Module.

System Error: 010036 – Switch the Printer OFF from the back and then disconnect the Trailing Cable from the Electronics Module. Switch the Printer ON and see if the Error Code now changes to “010037”. If the error code remains as “010036”, replace the Electronics Module. If the Error Code changes to “010037” then refer to that error code.

System Error: 010036 00000800 – Problem with the Y-axis or ANY Stepper Motor.

System Error: 010036 00001000 – Problem with the X-axis or ANY Stepper Motor.

System Error: 010037 - Check/replace Trailing Cable. Replace Carriage Assembly. Replace Electronics Module.

System Error: 010038 - Refer to error code “010037”.

System Error: 010039 - Check/replace Trailing Cable. Replace Carriage Assembly.

System Error: 010040 -
Refer to error code “010037”.

System Error: 010041 - Switch the Printer OFF and ON again. During initialization another error code will appear. Refer to the relevant error code for further information.

System Error: 010042 0000000X

Error data (X):

- 0 → Faulty Media Sensor.
- 1 → Faulty Pinch-arm Sensor.
- 2 → Faulty Refill Assembly Sensor.
- 3 → Faulty Elevator Sensor.
- 4 → Faulty Service Station Sensor.
- 5 → Faulty Primer Sensor.

Try the following:

- Make sure that all sensors are connected correctly.
- If Faulty Service Station or Primer sensors - Check/replace Service Station Interconnect Cable.
- If Faulty Refill Assembly or Elevator sensors - Check/replace Refill Interconnect Cable.
- If Faulty Pinch-arm sensor - Replace Pinch-arm Sensor.
- If Faulty Refill Assembly Sensor - Replace Refill Assembly.
- If Faulty Elevator Sensor - Replace the Elevator Assembly.
- If Faulty Service Station Sensor - Replace the Service Station Assembly.
- If Faulty Media Sensor - Replace Media Sensor.
- If Faulty Primer Sensor - Replace Primer Assembly.
- Replace Electronics Module.

System Error: 010100 - Replace Electronics Module.

System Error: 010101 - Refer to Error Code 07xxxx

System Error: 010102 - Replace Electronics Module.

System Error: 010110 - Test Electronics Module. Perform the following Calibrations: Carriage / Refill / Line Sensor / Service Station / Printhead Alignment / Color Calibration / Service Accuracy. Make sure you have the latest version of the Flash SIMM (firmware) installed. Replace Electronics Module.

System Error: 010111 - Press ENTER and re-configure the front panel settings. If possible, enter Service Mode and clear the EEROM. If error code continues, replace Electronics Module.

System Error: 010120 - If Error Code appeared during normal operation and not during initialization, then problem can be solved by switching the printer OFF and ON again. Enter in Service Mode. During initialization Error Code “010110” appears. Refer to that error code for further information.

System Error: 010121 - Switch the printer OFF and ON again. If Error Code reappears, replace Electronics Module.

System Error: 020000 - Check the Service Station Interconnect Cable. Check cables for the Primer Stepper Motor and Sensor. Check that the air tubes that are connected between the primer assembly and the service station are in the correct position and are not squeezed together. Check that the Primer Stepper Motor is NOT shorted. Replace Service Station interconnect cable. Replace Primer Assembly. Replace Service Station Assembly. Replace Electronics Module.

System Error: 020001 - Check if the ink cartridges are installed correctly on the Elevator and that there are no obstacles in the way. Check/replace the Refill Interconnect Cable. Check cables for the Elevator Stepper Motor and Sensor. Check that the Elevator Stepper Motor is NOT shorted. Replace Refill Interconnect PCA. Replace Elevator Assembly. Replace Electronics Module.

System Error: 020002 - Check/replace Refill Interconnect Cable. Check Refill Stepper Motor and Sensor cables. Check that the Refill stepper motor is NOT shorted. Replace Refill Interconnect PCA. Replace Refill Assembly. Replace Electronics Module.

System Error: 020003 - Perform the Refill Calibration. Check for obstacles in the Refill path. Check/replace Refill Interconnect Cable. Check the cables for the Refill Stepper Motor and Sensor. Check that the Refill stepper motor is NOT shorted. Replace Refill Interconnect PCA. Replace Refill Assembly. Replace Electronics Module.

System Error: 020004 - Perform the Service Station Calibration. Check that the Service Station flag is installed correctly. Check that the Service Station nut is installed correctly. The nut is located on the front side of the Service Station, just below the Printhead Cleaner holder. Check/replace the Service Station Interconnect Cable. Check cables for the Service Station components. Check that the Service Station stepper motors are NOT shorted. Replace Service Station Assembly. Replace Electronics Module.

System Error: 020005 - Check if the ink cartridges are installed correctly on the Elevator and that there are no obstacles in the way. Check/replace Refill Interconnect Cable. Check cables for the Elevator Stepper Motor and Sensor. Check that the Elevator stepper motor is NOT shorted. Replace Refill Interconnect PCA. Replace Elevator Assembly. Replace Electronics Module.

System Error: 020006 - Perform Refill Calibration.

System Error: 020010 - Switch the printer OFF and ON again and check if the error code disappears. If the error code disappears, **do NOT try to troubleshoot any further.** Check that the Encoder Strip is NOT damaged or dirty. If necessary, clean the encoder strip, or if damaged, replace the Encoder Strip. Clean and lubricate the slider rods. Replace Y-axis Motor Assembly. Replace Tensioner Holder Assembly (with spring). Replace Y-axis belt. Replace Carriage Assembly.

System Error: 020011 - Refer to Error Code 020010.

System Error: 040xxx - Press ENTER and switch the printer OFF. Make sure the MIO card is installed correctly and switch the printer ON again. If this error code continues to appear then replace the MIO Card. If the system error continues to appear after replacing the MIO card, replace Electronics Module.

System Error: 040601 - Install latest version of the MIO Card.

System Error: 050000 - Clean Mark Encoder. Check Line Sensor is installed/connected correctly. Perform Service Accuracy Calibration. Replace lens cover which is installed on the line sensor. Replace Line Sensor Assembly. Replace Trailing Cable. Replace Carriage Assembly. Replace Electronics Module.

System Error: 060000 - Close the Window if it is open. Move the printer to a location with less light. The Printer MUST be kept away from direct intense sunlight or a spotlight. Replace the Line Sensor Assembly. Replace the Trailing Cable. Replace the Carriage Assembly. Replace the Electronics Module.

System Error: 060100 - Calibrate Line Sensor. Clear EEROM and perform all calibrations again. Replace Electronics Module and perform all calibrations

System Error: 060200 - Incompatible Firmware and Carriage PCA. Upgrade Firmware.

System Error: 060300 - Incompatible Firmware and Line Sensor. Upgrade Firmware.

System Error: 060400 - Incompatible Carriage PCA and Line Sensor. Replace Line Sensor. Calibrate Line Sensor.

System Error: 060500 - Calibrate Line Sensor.

System Error: 07xxxx - Firmware Error. Make sure you have the latest version of the Flash SIMM (firmware) installed or upgrade the firmware revision of the Flash SIMM. If the error code remains after installing the latest Flash SIMM then report the error to the HP Response Center or the nearest HP Support Office, stating the following information:

- Model and Serial Number of the printer.
- the complete error number.
- service print (*Utilities / Service Tests*).
- plot file where the error has occurred.
- additional comments about the usage, the setting, etc..

HP DesignJet 2500CP only

System Error: 08xxxx – PostScript Error. Refer to Error Code 07xxxx

System Error: 080001 – Hard Disk Drive installed without PostScript.

HP DesignJet 2500CP only

System Error: 09xxxx - Hard Disk Drive Error. Switch the printer OFF and ON again. If Error Code reappears, check that the Hard Disk data cable is correctly connected at both ends. Also check that the Hard Disk Power Cable is correctly connected. Replace Hard Disk data cable. If Error Code continues to appear, replace Hard Disk.

System Error: 090004 – PostScript installed without Hard Disk Drive.

Service Tests

Entering the Service Tests (Diagnostics) Menu System

- 1 Hold the UP and ENTER keys down and switch printer **ON** from the power switch on the back of the printer. Wait until “Status/Initializing” is displayed before releasing keys.
- 2 Once “Status/Ready” is displayed, scroll to *Utilities / Service Tests / Diagnostics* and press **Enter** button. Use **Arrow** buttons to scroll through test selections and press **Enter** button to begin a specific test.

WARNING: *Only replace one component at a time and check if the error has gone before replacing another component. Using this procedure you will be able to determine exactly which component failed.*

D01. Electronics

Purpose - Test Electronics Module, Hard Disk, Line Sensor (only presence), Trailing Cable and Carriage Assembly (*does not test the MIO Card*).

If “**D0100 OK**” - Test Passed.

If “**D0101 Fail**”, “**D0102 Fail**” or “**D0103 Fail**” - Replace Electronics Module.

If “**D0104 Fail**” - Check Hard Disk Power Cable is correctly connected. Replace Hard Disk data cable. If Error Code continues, replace Hard Disk.

If “**D0105 Fail**” - Check if Line Sensor is installed/connected correctly. Check/replace Trailing Cable. Replace Carriage Assembly.

If “**D0106 Fail**” - Remove Printheads and clean flex contacts on Carriage Assembly and Printheads. Reseat Printheads and try test again. Perform the Printhead Continuity test. Replace the complete Ink Delivery System of each color one by one, performing this test each time. Check/replace Trailing Cable. Replace Carriage Assembly.

D02. Line Sensor

Purpose - Test the Line Sensor.

REPLACE THE LENS COVER BEFORE YOU PERFORM THIS TEST IN ORDER TO PREVENT ANY AEROSOL PROBLEMS.

If “**Green OK V: ##.## / Blue OK V: ##.##**” - Test Passed.

If “**Green Fail V: ##.## / Blue Fail V: ##.##**” - Replace the lens cover on the Line Sensor. Make sure that the Mark Encoder on the Driver Roller is clean. Perform the Electronics test. Check if the Media used is suitable for the printer. Check if the Line Sensor is installed/connected correctly. Replace Line Sensor.

D03. Carriage Axis (Y-axis)

Purpose - Test components of the Carriage Axis.

If “**D0300 OK**” - Test Passed.

If “**D0301 Fail**”, “**D0302 Fail**” or “**D0303 Fail**” - Apply lubricant to the slider rods. Replace Encoder Strip. Replace Y-axis Motor Assembly.

If “**D0304 Fail**” - Replace encoder strip.

D04. Media Axis (X-axis)

Purpose - Test the components of the Media Axis.

If “**D0400 OK**” - Test Passed.

If “**D0401 Fail**”, “**D0402 Fail**” or “**D0403 Fail**” - Replace the X-axis Assembly.

If “**D0404 Fail**” - Clean Mark Encoder. Check Line Sensor is installed correctly. Perform Service Accuracy Calibration. Replace lens cover installed on line sensor. Replace Line Sensor Assembly. Replace Trailing Cable. Replace Carriage Assembly. Replace Electronics Module.

D05. Service Station

Purpose - Test the Service Station, including Primer Assembly.

If “**D0500 OK**” - Test Passed.

If “**D0501 Fail**” - Replace the Primer Assembly.

If “**D0502 Fail**” - Check if Service Station flag is installed correctly. Check Service Station interconnect cable. Replace Service Station Assembly.

D06. Refill

Purpose - Test Refill Assembly and Elevator Assembly.

If “**D0600 OK**” - Test Passed.

If “**D0601 Fail**” - Check Refill interconnect cable. Replace Refill Assembly.

If “**D0602 Fail**” - Replace Elevator Assembly.

D07. Front Panel

Purpose- Test the front-panel keys.

If required key is not pressed within 10 seconds, “**D0701 Fail**” is displayed.

If all the keys are pressed and the test passes, “**D0700 OK**” is displayed.

If any of the keys are pressed but not recognized then “**D0701 Fail**” is displayed after 10 seconds - Check that the Front Panel Assembly cable is connected to the Electronics Module. Replace Front Panel Assembly.

D08. Sensors

Purpose - Test Window, Right and Left Door, Refill Valve, Standby Button, Media and Pincharm Sensors.

If “**D0800 OK**” - Test Passed.

If “**D0801 Fail**” - Check that the Window Sensor is seated correctly. Check/replace Window Sensor cable.

If “**D0802 Fail**” - Check that the Right Door Sensor is seated correctly. Check/replace the Right Door Sensor.

If “**D0803 Fail**” - Check that the Left Door Sensor is seated correctly. Check/replace the Left Door Sensor.

If “**D0804 Fail**”, “**D0805 Fail**”, “**D0806 Fail**” or “**D0807 Fail**” - Check the Refill Valve Sensor cable. Check the Refill interconnect cable. Replace the Refill Assembly.

If “**D0808 Fail**” - Check Standby Button Sensor cable. Replace Standby Button Assembly.

If “**D0809 Fail**” - Check Media Sensor cable. Replace the Media Sensor Assembly.

If “**D0810 Fail**” - Check Pincharm Sensor cable. Replace the Pincharm Sensor Assembly.

D09. MIO Presence

Purpose - Test the presence of MIO Card and the communication between MIO Card and Main PCA.

If “**D0900 OK**” - Test Passed.

If “**D0901 Fail**” - Reseat/replace MIO card.

D10. Cutter

Purpose - Test Cutter Assembly.

If carriage picks up the Cutter Assembly and runs it along the length of the printer twice, **test has passed**.

If the carriage does not pick up the Cutter Assembly, **test has failed** - Check if the Cutter has been disabled through the front-panel (**Device Setup / Cutter**). Perform Carriage test. Replace Cutter Assembly.

D11. Bail

Purpose - Test the Bail Assembly.

If Bail Assembly is raised, **test has passed**.

If Bail Assembly is NOT raised, **test has failed** - Replace Bail stepper motor. Replace Bail assembly.

D12. Image Quality

Purpose - Test the image quality attributes of the printer.

If after aligning the Printheads, “Bad Printhead Alignment” is displayed - Try recovering the printheads using the front-panel menu. Check the alignment pattern to check if any of the colors are printed badly. If a color is printing badly then replace the complete Ink Delivery System of the color that is bad. Perform the Line Sensor calibration. Replace the lens cover ▶ Users Guide, Chapter 10 (Lens Maintenance). Check if the Line Sensor is installed/connected correctly. Perform the Line Sensor Test. Perform the Electronics Test.

If the values of the Printheads are **between -1.0 and +1.0** for any of the Printheads then the test has **passed**.

If the values of the Printheads are **NOT between -1.0 and +1.0** for any of the Printheads then the test has **failed** - Perform the Printhead Alignment Calibration. Perform the Line Sensor calibration. Replace the lens cover ▶ Users Guide, Chapter 10 (Lens Maintenance). Perform the Electronics test. Check if the Media used is suitable for the printer. Check if the Line Sensor is installed/connected correctly. Replace the Line Sensor.

D13. Printhead ID

Purpose - Check the default settings of the printheads. ID 200000 is for inks for imaging and ID 220000 is for UV Durable Inks.

This test is for information only which might be requested in the event of an escalation.

D14. Printhead Continuity

Purpose - Check the primitives and address maps of the printheads.

The values shown for all Printheads should be **0**. If a different value is shown then that Printhead has a continuity problem. Try the following:

- 1 *DO NOT* replace any parts. **This will cause extra problems.** Remove the Printheads and clean the flex contacts on the Carriage and the Printheads. Reseat the Printheads and try the test again.
- 2 Even if one of the Printheads failed the Printhead Continuity test, you must remove **all** the Printheads from the Carriage and try installing them **one by one**. Before installing each Printhead, check the continuity of all four Printheads. The front-panel should display a 3fff / 3fff result for each Printhead that is not inserted and the original values (the value that was displayed before the Printhead was removed) for the Printheads when they are inserted. If you get a value that is different than 3fff / 3fff when the Printheads are removed then you must perform step 1 again. If you get the same results after repeating step 1, then the carriage is damaged. Replace the Carriage Assembly. When you insert each Printhead, the values **should change only** for that Printhead. If the values of other Printheads also change, then the problem is the Printhead itself and **not** the actual Printer. In this case you **must** replace the complete Ink Delivery System of the color that failed.
- 3 If you continue getting the original value (the value that was displayed before the Printhead was first removed) then you **must** replace the complete Ink Delivery System of the color that failed and try the test again.
- 4 As a **last resort**, replace Carriage Assembly.

D15. Clean Roller

Purpose - To rotate the Drive Roller when it requires cleaning.

D16. Erase EEROM

Purpose - To clear the EEROM.

If “**D1600 OK**” - EEROM erased correctly.

If “**D1601 Fail**” - Replace Electronics Module.

D17. Reset Counters

Purpose - To reset the internal counters.

If “**D1700 OK**” - Counters reset correctly.

If “**D1701 Fail**” - Replace Electronics Module.

D19. Hard Disk Drive Revision

Purpose - To show the revision of the internal Hard Disk Drive.

Calibrations

Entering the Service Calibrations Menu System

- 1 Hold the UP and ENTER keys down and switch printer **ON** from the power switch on the back of the printer. Wait until “Status/Initializing” is displayed before releasing keys.
- 2 Once “Status/Ready” is displayed, scroll to *Utilities / Service Tests / Calibrations* and press **Enter** button. Use **Arrow** buttons to scroll through selections and press **Enter** button to begin a specific calibration.

Calibrations To Be Done

When Required	C01	C02	C03	C04	C05	C06	C07	C08
Electronics Module is replaced	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Carriage is disassembled or replaced	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Refill Assembly is disassembled or replaced	No	Yes	No	No	Yes	No	Yes	No
Line Sensor is disassembled or replaced	No	No	Yes	No	Yes	Yes	Yes	Yes
Service station is disassembled or replaced	No	No	No	No	No	No	No	No
X-axis Assembly is disassembled or replaced	No	No	No	No	No	No	No	Yes
Drive Roller is disassembled or replaced	No	No	No	No	No	No	No	Yes
Banding Problem	No	No	Yes	No	Yes	Yes	No	Yes
Edge Detect Problem	No	No	Yes	No	No	No	No	No
Misalignment between Colors	No	No	Yes	No	Yes	Yes	No	Yes
Color Accuracy Problem	No	No	Yes	No	No	No	Yes	No
Nozzles Out or Misdirected	No	No	No	No	No	Yes	No	No

C01. Carriage

Purpose - Calibrate the temperature from which the printhead has to be warmed.

THIS CALIBRATION MUST BE DONE WITH THE PRINTHEADS INSTALLED.

If “C0100 OK” - Calibration done.

If “C01xx Fail” - Perform Electronics test.

C02. Refill

Purpose - To ensure the correct position of the carriage assembly in respect to the refill assembly.

When the Carriage Assembly, Refill Assembly or the Electronics Assembly is ordered, a Refill Calibration Tool, a special Carriage height gauge and an Instructions flyer will be included. You must follow the instructions in the flyer in order to correctly calibrate the Refill Assembly and to make sure that the Carriage is at the correct height.

C03. Line Sensor

Purpose - Calibrate the intensity of the line sensor in the carriage PCA.

Load white media before performing this calibration.

WINDOW MUST CLOSED BEFORE YOU PERFORM THIS CALIBRATION.

REPLACE THE LENS COVER BEFORE YOU PERFORM THIS CALIBRATION IN ORDER TO PREVENT ANY AEROSOL PROBLEMS.

If “C0300 Done” - Calibration done.

C04. Service Station

THIS CALIBRATION IS NO LONGER VALID AND SHOULD NEVER BE PERFORMED.

C05. Printheads Alignment

Purpose - To test and if necessary correct the misalignment between the printheads.

WINDOW MUST CLOSED BEFORE YOU PERFORM THIS CALIBRATION.

If “C0500 Done” - Calibration done.

If “C0501 Fail” - If the calibration pattern is bad, try recovering printheads using the front-panel menu and try the calibration again. If the calibration pattern is bad again, then replace the complete Ink Delivery System of the color that is bad. Perform Electronics Test. Perform Line Sensor Test.

C06. Printheads Check

Purpose - Check that the Nozzles of the Printheads are functioning correctly.

WINDOW MUST CLOSED BEFORE YOU PERFORM THIS CALIBRATION.

If “**C0600 Done**” - Calibration done.

If “**C06xx Fail**” - If the calibration pattern is bad, try recovering printheads using the front-panel menu and try the calibration again. If the calibration pattern is bad again, then replace the complete Ink Delivery System of the color that is bad. If the calibration pattern is good, replace Line Sensor. Perform Electronics Test. Perform Line Sensor Test.

C07. Color Calib. (Only available in the HP DesignJet 2500CP printer)

Purpose - To determine the correction function to be applied in PostScript in order to match the color reproduction of a nominal Printer. This Calibration is necessary to improve color consistency between different prints and different Printers.

WINDOW MUST CLOSED BEFORE YOU PERFORM THIS CALIBRATION.

If “**C0700 Done**” - Calibration done.

If “**C0701 Fail**” - If the calibration pattern is bad, try recovering printheads using the front-panel menu and try the calibration again. If the calibration pattern is bad again, then replace the complete Ink Delivery System of the color that is bad. Perform Electronics Test. Perform Line Sensor Test.

C08. Service Accuracy

Purpose - Calibrate the nominal advance of the media.

***WINDOW MUST CLOSED BEFORE YOU PERFORM THIS CALIBRATION.
You must use HP Matte film to perform this calibration even if it is not supported. You can select it as any media in the front-panel.***

If “**C0800 Done**” - Calibration done.

If “**C0801 Fail**” - If the calibration pattern is bad, try recovering printheads using the front-panel menu and try the calibration again. If the calibration pattern is bad again, then replace the complete Ink Delivery System of the color that is bad. If the calibration pattern is good, replace Line Sensor. Perform Electronics Test. Perform Line Sensor Test.

C09. Maintenance

Purpose - To read and, if necessary, adjust the preventive maintenance counter, which counts the number of swaths.

This Calibration must be used to reset the Maintenance counter to ZERO after the Preventive Maintenance Kit has been installed in order to disable the “Maintenance Advised” message on the front-panel.

Note down the Swaths Counter (####) **before** replacing the Electronics Module.

Adjust the Swaths Counter (####) **after** replacing the Electronics Module.

Use the following keys to adjust the swaths counter.

- **Up Arrow** - Increase the Counter Digit.
- **Down Arrow** - Decrease the Counter Digit.
- **Enter** - Select the Next digit.

C10. Font Type Set (Only available in HP DesignJet 2500CP printer)

Purpose - To check and, if necessary, select a Font type (only possible when the printer detects that a new Hard Disk has been installed).

YOU MUST PERFORM THIS CALIBRATION WHEN YOU INSTALL A NEW ELECTRONICS MODULE IN ORDER TO SET THE CORRECT FONT TYPE.

If you **have not** installed a new Electronics Module, current font type will be displayed.

If you **have** installed a new Electronics Module, “Character Set New” will be displayed. Press **Up Arrow** key to set new type font.

The message “Choose Character Set” will be displayed on the front-panel. Use **Up and Down Arrow** keys to select font type required and then press **Enter**.

The first time a PostScript print is sent to the printer, the other font types **will be deleted and cannot be recovered**.

IF YOU DO NOT SELECT ANY FONT SET, THE ROMAN FONT WILL BE SELECTED BY DEFAULT WHEN A POSTSCRIPT FILE IS SENT.

Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>