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Calibrations

The following Calibrations can be performed on the printer:

- 1** Color Calibration (performed by user) (Applicable to HP Designjet 10ps/20ps/50ps) ⇒ Page 3.
The Color Calibration needs to be performed whenever:
 - The environmental conditions have changed from the environmental conditions where the Color Calibration was applied.
 - The printheads have been replaced.
 - The drop volume of any of the printheads has changed dramatically.
- 2** Accuracy Calibration (performed by Repair Center) ⇒ Page 4
The Accuracy Calibration needs to be performed whenever:
 - Banding is detected in printed images.
 - The Feed Roller Assembly is disassembled **or** replaced.
 - The Paper-Axis Motor Drive Assembly is disassembled **or** replaced.
 - The Electronics Module is replaced.
 - The Encoder Disc is removed **or** replaced.
- 3** Printhead Alignment ⇒ Page 5
The purpose of the Printhead Alignment is to correct the alignment between the printheads in order to prevent color misalignment and print quality defects like banding. Normally the Printhead Alignment is launched automatically after a Printhead has been replaced. The Printer prints the Printhead Alignment page and scans the pattern on the page in order to align the printheads.
- 4** Color Calibration (Applicable to HP Designjet 30/30n) ⇒ Page 6

Color Calibration (HP Designjet 10ps/20ps/50ps)

The Color Calibration should ONLY be performed by the user when required.

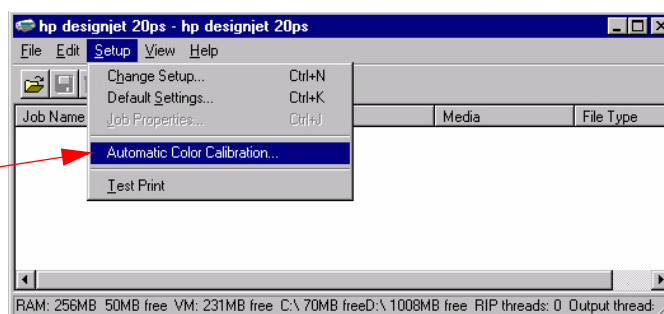
The Color Calibration needs to be performed whenever:

- The environmental conditions have changed from the environmental conditions where the Color Calibration was applied.
- The printheads have been replaced.
- The drop volume of any of the printheads has changed dramatically.

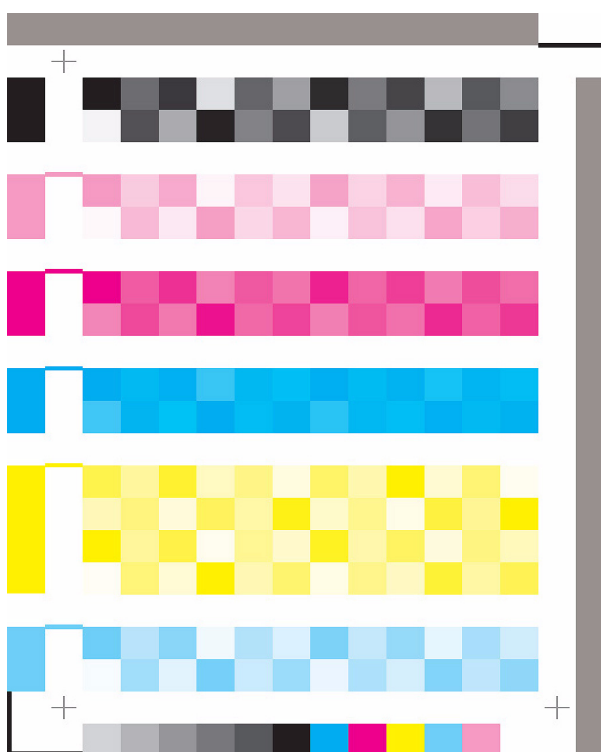
If the Color calibration fails, print the information page and check the list of warnings under the printer status section.

The Color Calibration can be performed using the hp designjet system maintenance tool or via the software rip.

Launch using the Software RIP



Sample of the Color Calibration Print



Accuracy Calibration

The Accuracy Calibration should ONLY be performed at the Repair Center when required.

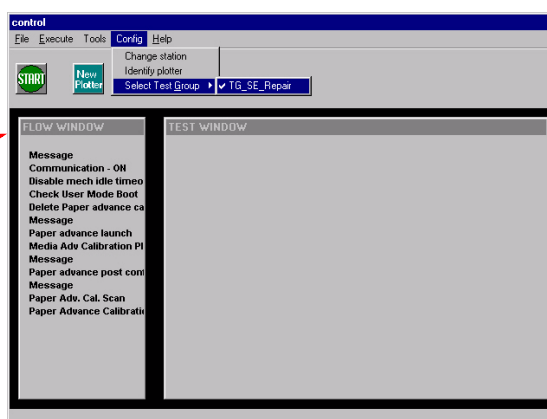
The Accuracy Calibration needs to be performed whenever:

- Banding is detected in printed images.
- The Feed Roller Assembly is disassembled **or** replaced.
- The Paper-Axis Motor Drive Assembly is disassembled **or** replaced.
- The Electronics Module is replaced.
- The Encoder Disc is removed **or** replaced.

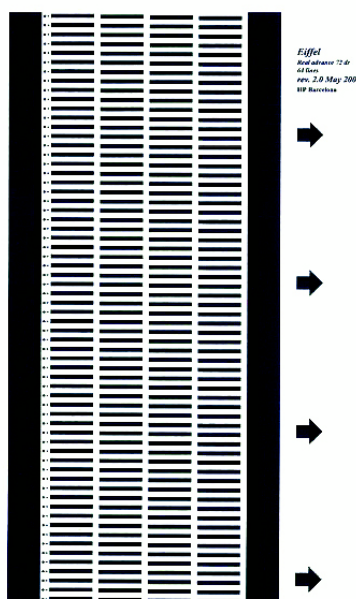
Make sure that you use hp Proofing Gloss in order to perform the Accuracy Calibration.

To perform the Accuracy Calibration, launch the Controller Application and switch to Station **SE20** and then select test group **TG_SE_Repair**.

Launch using the
Controller Application



Sample of the
Color Calibration Print

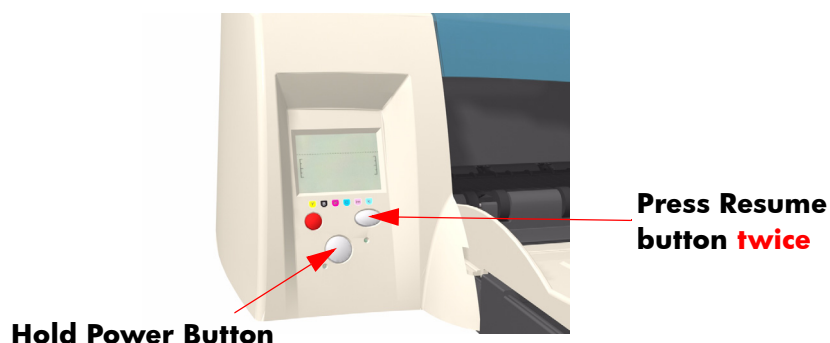


Printhead Alignment

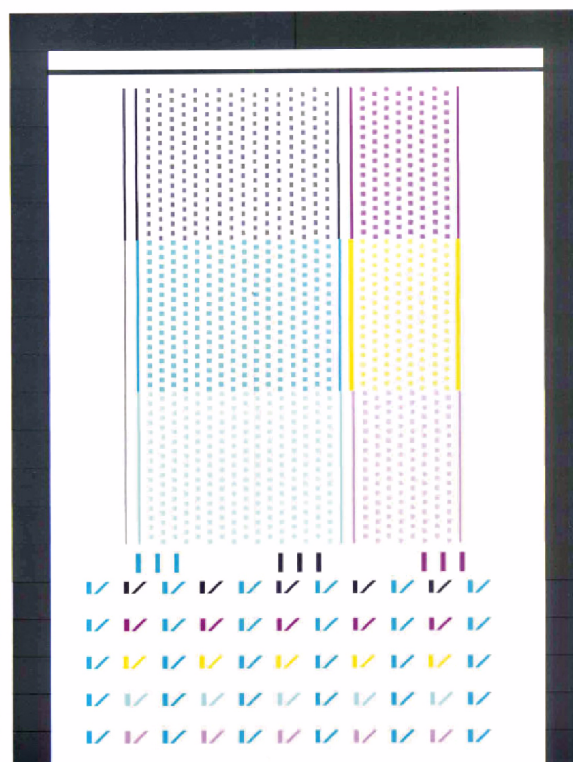
The purpose of the Printhead Alignment is to correct the alignment between the printheads in order to prevent color misalignment and print quality defects like banding. Normally the Printhead Alignment is launched automatically after a Printhead has been replaced. The Printer prints the Printhead Alignment page and scans the pattern on the page in order to align the printheads.

If the Printhead Alignment fails, print the information page and check the list of warnings under the printer status section.

To manually launch the Printhead Alignment, hold the power button down and press the resume button **twice**.



Sample of the Printhead Alignment Page



Color Calibration (HP Designjet 30/30n)

The Color Calibration should ONLY be performed by the user when required.

Why calibrate color?

Calibrate color performs a maintenance function to ensure color consistency. If you calibrate correctly, the colors printed on printers with different printheads will look very similar.



This picture shows an exaggerated example of how a printout could look like before and after color calibration.

When do I calibrate color?

It is recommended that you **calibrate color** every time you replace a printhead or when you perceive color degradation on the printouts. There is no need to perform this operation each time you print. The results of the color calibration will be applied to all print jobs that follow, even if you power off the printer.

Perform color calibration if you print with the regular hp designjet 120 printer driver, which was included with the printer or which you downloaded from the Web. If you use a PostScript driver such as Adobe PS or LaserWriter to print through a PostScript RIP provided by HP or another third-party company, the results of **calibrate color** will not be applied to your print jobs. In this case, refer to your PostScript RIP documentation for information on how to perform color calibration.

How do I calibrate color?

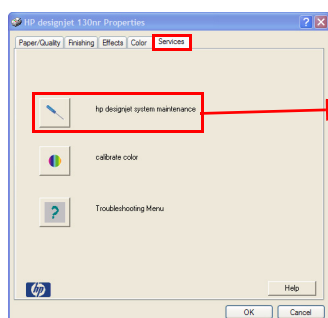
You have to **calibrate color** for every Paper Type that requires color consistency. For example, if you require consistent colors on glossy paper and on heavy weight coated paper, you must perform one color calibration for the former and another for the latter Paper Type.

When you want to calibrate color, remember to select the Print Quality option that you are going to use to print. For example, if you want to print with the High Resolution option, select High Resolution before performing the color calibration.

If the Color calibration fails, print the information page and check the list of warnings under the printer status section.

Performing the Color Calibration

The Color Calibration can be performed using the hp designjet system maintenance tool which is launched via the hp printer driver or by double clicking on the "calibrate color" icon on the computer desktop.



Launch system maintenance tool via the hp driver

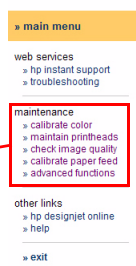
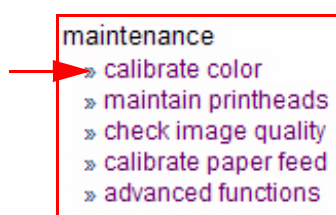
OR

Double click on the "calibrate color" icon on the computer desktop

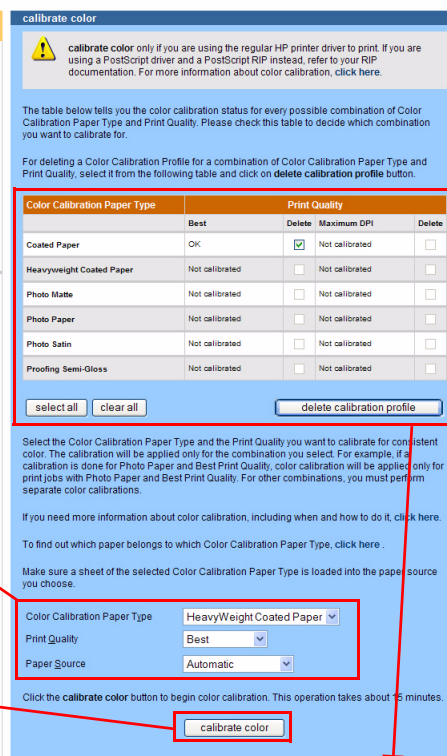
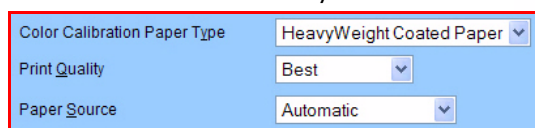


system maintenance for hp designjet 130 series

Step 1 - Select "calibrate color"



Step 2 - Select Paper Type and Print Quality

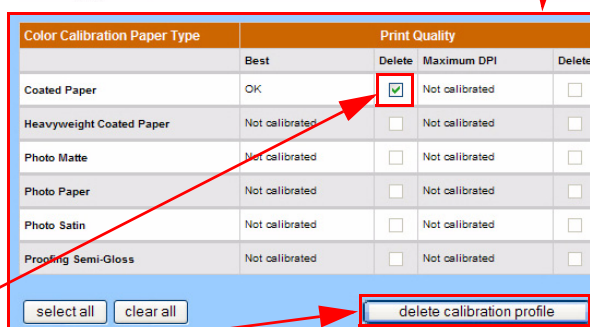


Step 3 - Press "Calibrate Color"

This table gives you the color calibration status for each type of paper and print quality. You can also use this table to delete color calibration profiles that you don't need.

Step 1 - Select color calibration profile

Step 2 - Press "delete calibration profile"



Sample of the Color Calibration Print