

Replacing the HB Lamp Power Supply

This procedure outlines the steps necessary to replace the lamp power supply in the ACQUITY PDA Detector^a. This power supply provides the +24V power used by the lamp.

NOTE: Except where noted, the term “ACQUITY PDA Detector” refers to two detectors:

- ACQUITY UPLC Photodiode Array (PDA) Detector
- ACQUITY UPLC PDA Extended Wavelength (e λ , or eLambda) Detector

Parts Required

Table 1: Parts Required

Part Number	Description	Quantity
700002785	HB Lamp Power Supply Kit	1

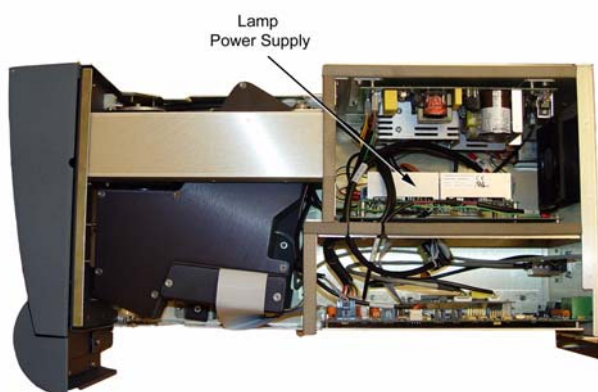


Figure 1 - Location of HB Lamp Power Supply Assembly

NOTE: Some of the illustrations show only one type of PDA detector. However, the physical differences between the PDA detector and PDA e λ detector are insignificant for this procedure.

Tools/Materials Required

- Flat-head screwdriver
- T10 Torx screwdriver
- Small Phillips screwdriver
- Medium Phillips screwdriver

a. To be certain you have the latest version of this procedure, please visit the Waters Support Center at Waters.com.

Procedure

1. Shut off power to the unit.
2. Remove the filler panel by removing two T20 Torx screws on the rear of the chassis and sliding the filler panel off of the two pins.
3. Remove the detector's cover by removing two T20 Torx screws on each side of the unit.
4. Loosen the captive screw securing the plenum and place it aside.

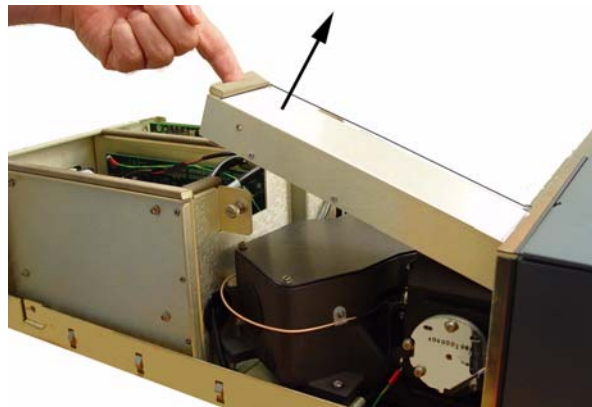


Figure 2 - Removing Plenum

5. Remove the fan cable connected to J14 on the personality card for easier access to the lamp power supply.
6. Remove the T10 Torx screws securing the corners of the lamp power supply to the chassis. You may have to remove the low-voltage power supply to gain access to the lower screws. If so, refer to the *Replacing the Low Voltage Power Supply* procedure.

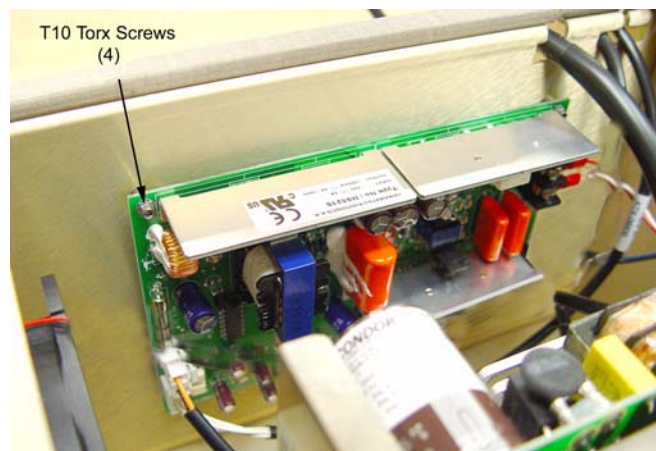


Figure 3 - Removing the Lamp Power Supply

7. Remove the lamp power supply.
8. Remove the lamp cable assembly wires connected to CN1 and CN2 and the ground cable connected to the bottom right-hand corner of the lamp power supply.
9. Unscrew the terminals securing four wires from the lamp cable assembly at CN3 and CN4. Take note of which wires go on which terminals, as shown in Figures 4 and 5.



Figure 4 - Location of Lamp Power Supply Connectors

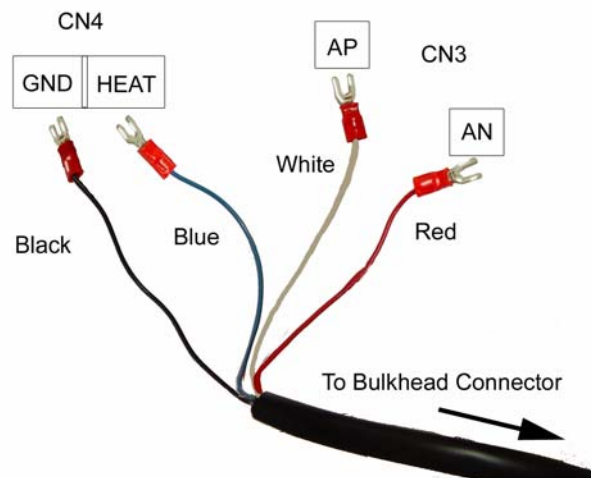


Figure 5 - HB Lamp Connector Detail

10. Install the new lamp power supply by reversing steps 9 through 4.
11. Reinstall the low-voltage power supply (if removed) and apply power to the unit.
12. Referring to Table 2, check the LED's on the front panel to verify that the lamp has fired.

Table 2: Status LED Descriptions

Status LED	Detector State
OFF	Lamp Off
Solid Green	Lamp On
Blinking Red	ERROR - User-correctable
Solid Red	Fatal Error - Service Required

13. Shut off power to the unit and replace the filler panel and cover.