

Replacing the Fan

This procedure outlines the steps necessary to replace the exhaust fan in the ACQUITY PDA detector^a.

The exhaust fan assembly is mounted to the rear wall of the chassis. The exhaust fan pulls hot air away from the lamp housing, through the plenum, and out of the detector.

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
441000617	Main Fan Assembly	1



Figure 1 - Location of Fan in ACQUITY PDA

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

- T20 Torx screwdriver

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

Removing the Fan

1. Power off the detector, and then unplug the power connector.
2. Remove the two T20 Torx screws that secure the filler panel bracket to the rear of the chassis. Then, slide the filler panel off the two pin guides at the front of the unit.
3. Remove the four T20 Torx screws (two on each side) securing the top cover, and then lift it off.
4. Disconnect the fan's cable from connector J17 on the Personality PCB.
5. The fan is held in place by four push pins (one in each corner). To remove the fan, press in on the center of the pin and then pull the assembly over the pin (Figure 2).

NOTE: You may need to remove the low voltage power supply to replace the fan.

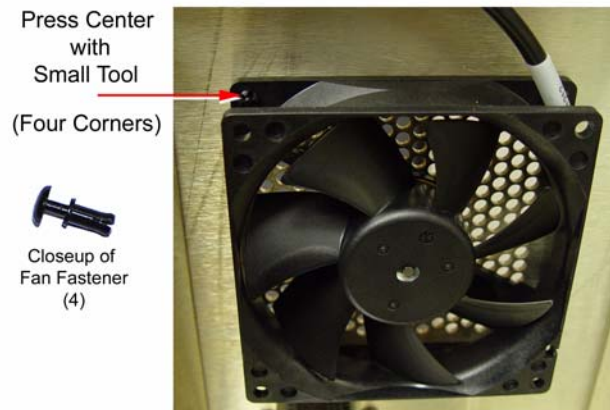


Figure 2 - Location of Push Pins

6. Repeat this process for three the remaining pins.

Installing the Fan

1. Align the fan assembly over the four push-pins.
2. Push the assembly over each of the pins until the assembly is securely in place.
3. Reconnect the fan cable to connector J17 on the Personality PCB.
4. Replace the detector's cover and secure it using the two T20 Torx screws on each side of the unit.
5. Replace the filler panel by sliding the panel over the two alignment pins. Secure it to the rear of the chassis with the two T20 Torx screws.