

Replacing the CPU 2000/Personality PCB

This procedure describes how to replace the CPU 2000 and Personality PCB in the ACQUITY UPLC™ System TUV Detector. The CPU 2000 and Personality PCB are removed as a unit, but can be serviced separately.

Parts required

Part Number	Description	Qty
700001518	CPU 2000	1
700002548	Personality PCB	1

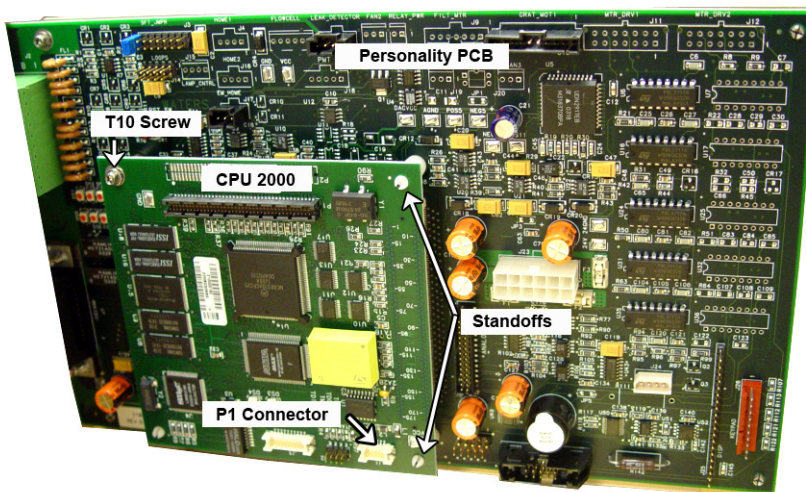


Figure 1 - CPU2000/Personality PCB

Tools/materials required

- Phillips screwdriver
- Flat-head screwdriver
- T20 Torx screwdriver

Procedure

The procedure to replace the CPU 2000/Personality PCB in the UPLC TUV Detector consists of three steps:

1. Removing the personality board
2. Replacing the individual boards
3. Reinstalling the CPU 2000/personality board

WARNING: Wear anti-static protection while performing this procedure.

Removing the CPU2000/personality PCB

1. Remove power to the unit.
2. Remove the top cover from the detector.
3. Using an extended T20 screwdriver, loosen the two screws holding the CPU/personality board to the chassis.
4. Remove any quick-disconnect connectors attached to connectors A and B on the rear of the UPLC Detector.
5. Remove any cable attached to the IEEE connector and jacksocket connector on the back of the detector.
6. Slide the board and bracket forward slightly, then lift up to remove.
7. Remove all cabling from the CPU 2000/personality board.

NOTE: *To easily reinstall the cables onto the new board, either mark the cables as you remove them or replace them one at a time.*

8. Remove the four screws attaching the defective CPU 2000/personality board to the metal partition (bracket).

Replacing the individual boards

1. Remove the T10 screw at the upper-left corner of the CPU 2000 ([Figure 1](#)).
2. Pop off the three stand-offs ([Figure 1](#)).
3. Remove the CPU 2000 from the personality PCB by gently rocking it back and forth while pulling.
4. If you're replacing the personality PCB, remove the four screws attaching the old personality board to the metal partition (bracket).
5. Reinstall the old (or install a new) CPU 2000, seating it on the long white connector on the back.

NOTE: *Orient the board so that the P1 connector is on top ([Figure 1](#)).*

Reinstalling the CPU2000/personality PCB

1. Reinstall all cabling onto the CPU 2000/personality board. Secure it to the bracket using the four screws.
2. Place the assembled CPU/personality board into the detector by locating the screw holes over the screws and sliding the assembly backwards.
3. Tighten the two screws that secure the CPU/personality board bracket to the bottom of the detector chassis.
4. Reconnect the IEEE, connector screws, and A, B connectors.
5. Replace the top cover.
6. Power up the detector, and then verify that it calibrates.