Altair®4 Printed Circuit Board Replacement

⚠ CAUTION

Before handling the printed circuit boards (PCB), the user must be properly grounded; otherwise, static charges from the user's body could damage the electronics. Such damage is not covered by the warranty. Grounding straps and kits are available from electronics suppliers.

1. Verify that the instrument is turned OFF.
2. Remove the four case screws, and remove the case front while carefully noting the orientation of the sensor gasket.
3. Using fingers only, gently remove the toxic, combustible, and oxygen sensor by gently rocking each sensor while pulling it straight from its socket.
4. Remove the screws from the sensor display bracket (FIGURE 1).
5. Unsolder the two charge pins (FIGURE 2) that connect the PCB with the back case.
6. Gently remove the PCB from the back case.
7. Install new PCB with the old back base.
8. Solder the two charge pins of the new PCB to the back case. Use 6337 tin lead solder.
9. Re-install the sensor/display plastic holder and screws. Do not over-tighten.
10. Re-install the sensors and sensor gasket in the front case.
11. Re-install the case screws. Torque to 6 in/lbs.
12. If the instrument previously had specialized settings, go into the Setup menu and re-enter those settings.
13. Calibrate the instrument after the sensors have stabilized for a 1/2-hour.

NOTE: It is the user's responsibility to follow all applicable regulations and to ensure continued compliance with the certification, as marked on the label.

⚠ WARNING

Verification of calibration response is required; otherwise, the instrument may not perform as designed, resulting in serious injury or death.

Figure 1. Sensor Display Bracket

Figure 2. Charge Pins

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