
Guide to Replacing the Firmware on the M-7500 Mercury Analyzer

This guide describes the necessary steps for replacing the firmware on the M-7500 Mercury Analyzer.

Accessing the CPU Board

1. Disconnect all the power cables.
2. Remove the autosampler from on top of the M-7500 and place it to the side.
3. Remove the cabinet cover from the base unit by removing the nine screws (Figure 1).

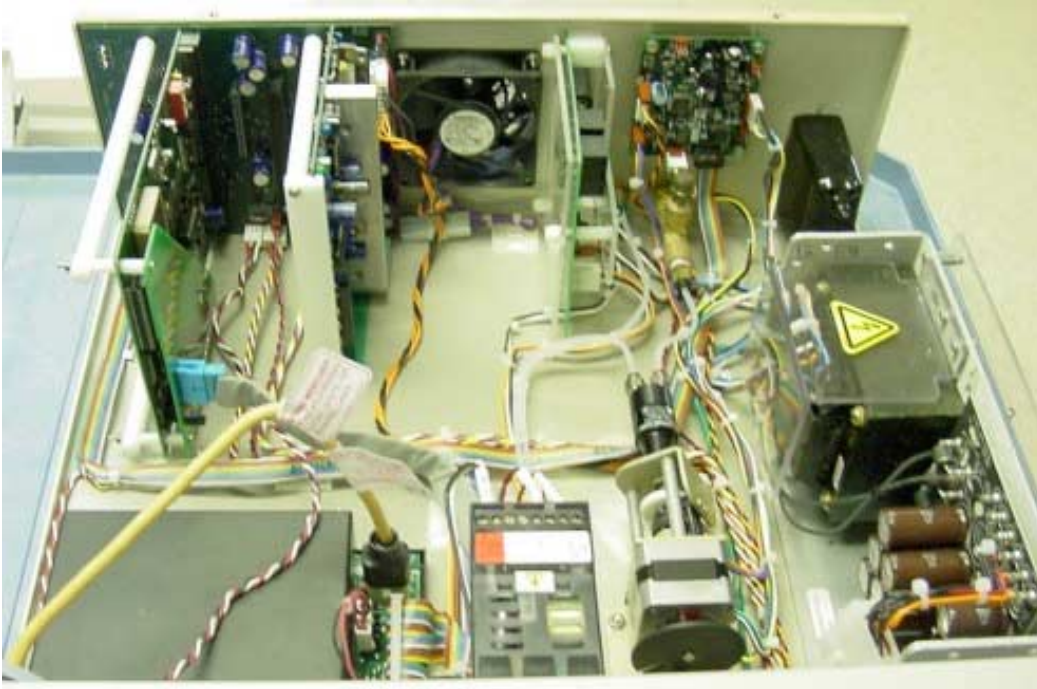


Figure 1. View of the inside of an M-7500.

Removing the CPU to acquisition board interface

4. Remove the two screws connecting the interface board to the CPU board (Figure 2).

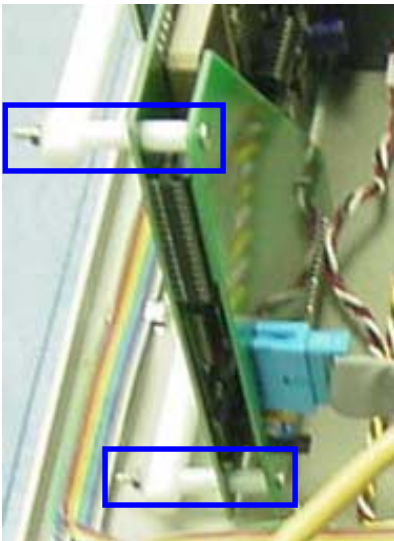


Figure 2. View of the two screws connecting the boards.

5. Separate the boards by disconnecting the connector (Figure 3).



Figure 3. Nuts connecting the GCU to the base.

Replacing the firmware on the CPU board

6. Remove the firmware chip on the CPU board (Figure 4).

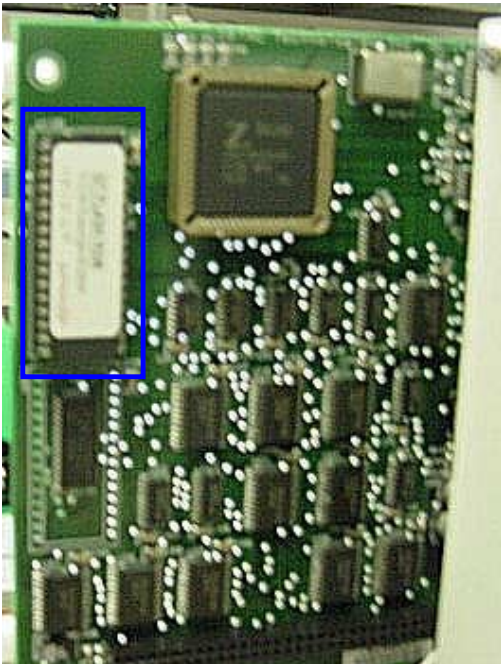


Figure 4. View of firmware chip on CPU board.

7. Put in new firmware chip (Figure 5). Make sure that the chip is placed correctly using the indentation mark on the chip. Match the U-shape on the chip to that on the CPU board.



Figure 5. New firmware chip.

8. Reconnect the interface board to the CPU board.
9. Put the cover back on the unit.