

ARCS PROCEDURE	REPLACING ZENO 3200 FIRMWARE PROM	PRO(DAQ)-007.000
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Replacing ZENO 3200 Firmware PROM

I. Purpose:

This procedure describes the steps necessary for replacing the ZENO 3200 firmware PROM. The firmware in this replacement PROM eliminates the sata memory errors often produced when exiting the ZENO program mode. It also provides additional digits in the Calibrated Test Menu Mode. The latter feature was requested to provide better resolution for ARM/TWP calibration checks.

II. Cautions and Hazards:

- The flat corner of the PLCC chip goes to the upper left when viewing the board so as the labeling is readable.
- Labeling on all boards should be in the same direction.
- Connect the memory boards to P6, not to P5.
- When the ZENO is first powered up after upgrading, it will go through a Flash Memory Initialization process. Wait for Watchdog to reset.

III. Requirements:

- PLCC removal tool

IV. Procedure:

A. Replacing ZENO 3200 Firmware PROM

1. Remove five screws from each of the end panels on the ZENO.
2. Remove the bottom of case.
3. Remove the PCMCIA memory board. It is held by two screws.
4. If the ZENO includes an Analog Expansion Board:
 - a) Remove the exterior Expansion Terminal Block(s).
 - b) Remove the screws on the extension connector(s).
 - c) Remove the Extension Board.
5. Using a PLCC removal tool, remove the firmware PROM, **V.1.85H-1403B2-1.1 Csum B300**, and replace it with the new firmware PROM, **V.1085H-1403B2-1.4 Csum 8802**.
6. Reinstall the Expansion Board and the Terminal Block(s).
7. Reinstall the Flash Memory Board.

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8. Reattach the case bottom.

V. References:

None.

VI. Attachments:

None.