

MONO INSTRUMENT SERVICES

983/G CRT Replacement

Title: Replacement Procedure	Model: Perkin Elmer 983/G	Operational Area: Maintenance
Procedure Number: MCAL.0026	Effective Date: Mar 1, 2004	Constructed by: D.Bevington

General:

This procedure will describes the replacement procedure for the CRT Monitor on a 983/G Infrared Spectrophotometer.

WARNING !

Do not connect AC power to the new Monitor assembly while it is connected to the 983/G. You will damage the 983 VDU Board or the 983G Graphics Board.

Procedure:

1. Power the 983/G OFF and raise the top lid to the fully open position.
2. Disconnect the circuit board edge connector to the CRT.
3. Disconnect the ground wire at the lower right corner of the CRT mounting bracket.
4. Disconnect the keyboard ribbon cable from the decoder board and note it's orientation to the connector. This connector is not keyed and if you plug it in backwards you will damage the Main Microprocessor Circuit Board.
5. Take the keyboard ribbon cable out of the cable clamps all the way so that the CRT assembly will not catch on it as it is being lowered out.
6. Remove the four straight edge screws holding the old CRT assembly and lower the CRT assembly out of the 983/G. Retain these four screws.
7. Place the new CRT assembly on the optics box cover. Do not mount it in the 983/G yet.
8. Connect the edge connector to the new assembly with the single wire pin 1 connected to the left side. This is the opposite way that it came off of the old CRT assembly. The single wire goes to the side labelled 0v on the new monitor NOT GND.
9. Temporarily reconnect the keyboard ribbon cable correctly and power the 983/G ON.

The monitor image was pre-aligned at Mono

10. Examine the image on the CRT. Using the four controls on the rear of the CRT align the image to be centered and adequate brightness. If the image is rolling vertically or horizontally you will find the adjustments on the left side of the CRT assembly. Do not use a metal screwdriver for these adjustments.
11. Once you are satisfied with the image, power the 983/G OFF.
12. Again, disconnect the keyboard ribbon and push it out of the way.
13. Mount the CRT assembly into the 983/G using the same screws that were removed in step 6.
14. Connect the ground wire removed in step 3 to the chassis of the new CRT assembly.
15. Re-connect the keyboard connector. Lower the 983/G lid and power the 983/G ON.

End of procedure