Installation Note

HP 70004A Color Display Firmware ROMs Replacement



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Firmware ROMs Replacement

INSTRUMENTS AFFECTED:	HP 70004A Color Display
To Be Performed By:	Customer or HP-Qualified Personnel

Purpose

This installation note documents the recommended procedure for replacing the set of four ROMs on the A5 processor.

Parts Supplied

Table 1 lists the parts included in the ROM Upgrade Kit.

Quantity	Description
1	Installation Note
1	EPROM, Programmed U23
1	EPROM, Programmed U24
1	EPROM, Programmed U25
1	EPROM, Programmed U26

Table 1-1. ROM Upgrade Kit Contents

Replacement Procedure

CAUTION Electrostatic discharge (ESD) can damage or destroy electronic components. Use ESD precautions when performing this procedure.

Removing the ROMs

- 1. Remove the line cord.
- 2. Remove all modules.
- 3. Remove the two screws from the right side panel.
- 4. Remove the two screws securing the left side strap.
- 5. Remove the four screws securing the instrument cover at the rear of the HP 70004A color display and slide the instrument cover off.

6. Remove the 10 screws ① securing the A5 processor.

CAUTION	To avoid damage to the 80 pin connector, do not lift the free end of the
	A5 processor higher than required for the A5 connectors to clear the main
	deck.

- 7. Carefully lift the free side of the A5 processor (side closest to the A4 power supply) and disconnect it from the A6 HP-MSIB.
- 8. Position the A5 processor onto the A4 power supply with the component side facing up.
- 9. Remove the four ROMs (A5U23 through A5U26).

Replacing Assemblies

- 1. Replace the four ROMs (A5U23 through A5U26) with the new ROMs included in this kit.
- 2. Reconnect the 80 pin connector of the A5 processor with the 80 pin connector on the A6 HP-MSIB. Make sure that the three video connectors align with their corresponding holes in the rear panel.

Note Ensure that the ribbon cables on the A5 processor do not become damaged.

- 3. Secure the A5 processor using 10 screws ①.
- 4. Position the HP 70004A color display top-side-up on the work bench.
- 5. Replace the instrument cover.
- 6. Replace all modules and connections.

Operation Verification

Verification of the ROM checksums is done at turn-on. No further verification is required.



Figure 1-1. Firmware ROM Replacement