

70205A-01A

S E R V I C E N O T E

SUPERSEDES: 70205A-01

HP 70205A Graphics Display

Serial Numbers: 0000A00000 / 2624A00455

Duplicate Service Notes: 70206A-04A

ROM Replacement Kit

Situation:

Display Firmware Revision 5.0 has been superseded by Revision 6.0. Troubleshooting displays with Revision 5.0 should begin by updating the firmware to Revision 6.0.

Solution:

This service note containing instructions for installing read-only memory (ROM) in the HP 70205A Graphics Display.

To avoid electrostatic discharge damage to electronics components, perform the installation at a static-free work station.

Parts List:

The following is a list of parts included in the HP 70205A ROM Replacement Kit (HP Part No. 5062-0796).

Continued

DATE: 04 January 1993

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	☐ IMMEDIATELY ☐ ON SPECIFIED FAILURE ☒ AGREEABLE TIME	STANDARDS: LABOR: 0.5 Hours	
LOCATION CATEGORY:	☒ CUSTOMER INSTALLABLE ☐ ON-SITE ☐ HP LOCATION	SERVICE INVENTORY: ☒ RETURN ☐ SCRAP ☒ SEE TEXT	USED PARTS: ☒ RETURN ☐ SCRAP ☒ SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE		
RESPONSIBLE UNTIL :		01 February 1994	
AUTHOR: RDS	ENTITY: 4500	ADDITIONAL INFORMATION: PCO 4076	

HP Part No.	Description	CD	Qty.
70205-80037	ROM U39	1	1
70205-80038	ROM U40	2	1
70205-80039	ROM U47	3	1
70205-80040	ROM U48	6	1
4208-0495	Foam Pad	3	1
9320-5455	Reply Label	8	1
9211-4917	Reply Carton	4	1
8710-1392	Hex Wrench(not used)	0	1
70205A-1A	Service Note		1
70206A-4A	Service Note		1

Removing the HP 70205A Graphics Display from the mainframe:

1. Set the mainframe line switch to OFF.
2. Lower the door on the front of the mainframe.
3. Loosen the latch at the base of the HP 70205A front panel with an 8 mm hex ball driver (HP Part No. 8710-1307).
4. Slide the HP 70205A forward and out of the mainframe.

Removing the cover of the HP 70205A Graphics Display:

5. Remove the six screws (two front, four rear) securing the top cover.

CAUTION

In the next step, when prying the top cover loose, insert a screwdriver blade into rear-panel pryslot and push the screwdriver handle DOWN. If the screwdriver is inserted too far, or if the handle is lifted, internal damage may occur.

6. Using both rear-panel pry slots, pry the top cover up, then lift it off the module.

Removing the microprocessor board:

7. Use the dark blue tabs to remove the A6 Microprocessor Board Assembly from the display module.

CAUTION

Before touching the ROMs, ground yourself with a resistor-isolated wrist strap. In addition, line power to all instruments must be properly earth-grounded to prevent buildup of static charge.

Replacing the ROMs:

8. Locate (do not remove) the ROMs on the microprocessor board (U39, U40, U47, U48), and note their notch orientation. The original ROMs currently in the board should have HP Part Numbers 70205-80004 through 70205-80007. The new ROMs have HP Part Numbers 70205-80037 through 70205-80040 respectively. See Figure 1.

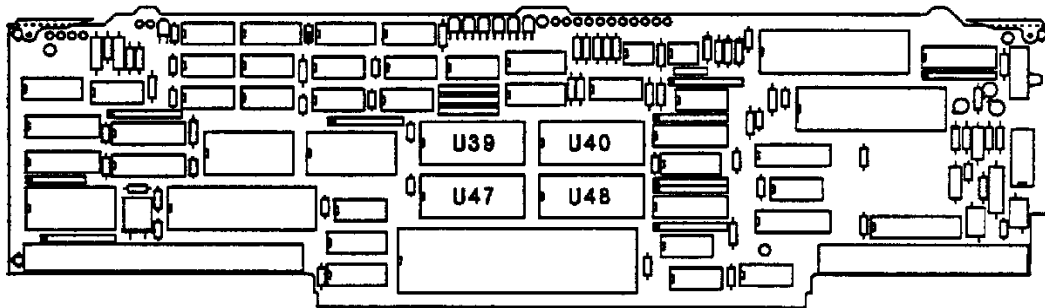


Figure 1

NOTE

In the next step, when removing ROMs, pry them up gradually to avoid bending pins AND to avoid prying up the socket itself. When inserting the new ROMs, double check that the notch orientation is correct and that all pins are in their sockets.

9. Remove original ROM U39, 70205-80004 and replace it with new ROM 70205-80037. Place the original ROM in the anti-static foam block, then repeat the sequence for U40, U47, and U48 so that the following list is satisfied.

U39 70205-80037
U40 70205-80038
U47 70205-80039
U48 70205-80040

Package the original ROMs for return to Hewlett-Packard. (Place the foam block into the anti-static pouch and the pouch into the original box, then affix the business reply label to the box.)

Reassembling the HP 70205A Graphics Display:

10. Slide the A6 Microprocessor Board Assembly through the blue guides and press firmly into the motherboard connectors.
11. Carefully position the top cover, aligning the back edge of the cover flush with the back panel.
12. Insert the two front cover screws and tighten just until they make contact.
13. Press the rear of the cover down firmly until the screw holes are aligned. The metal RFI gasket will make a scraping sound.
14. Use a small screwdriver to carefully line up the board assemblies with the four board slots in the top of the cover.
15. Replace, but do not tighten, the four screws at the back edge of the cover.
16. Tighten all the screws.

Replace the HP 70205A Graphics Display in the mainframe:

17. Slide the HP 70205A into the mainframe and press firmly into place.
18. Tighten the latch with the 8 mm hex ball driver, then close the door.

Operation verification:

19. Verify that the display's rear-panel TEST switch is OFF (0 position).
20. Set the mainframe line switch to ON, wait at least 30 seconds, set the switch OFF, then again set the switch to ON. Normal power-up has occurred if the display is other than large block letters on an otherwise blank screen (a display disruptive error).

NOTE

In converting from Display ROM Version 5.0 to Version 6.0, refer to the Operating Manual Update for a note concerning CY command compatibility. The note titled "Compatibility with ROM Version 5.0", is under the DISPLAY OPERATION tab, CHAPTER 3, Section 4, Copy: CY (parameter option).