

3789B-03A

S E R V I C E N O T E

SUPERSEDES 3789B-03

HP 3789B DS3 Transmission Test Set

Serial Numbers: 0000U00000/9999U99999

Retrofitting Option 010 (Printer) or Option 011 (Disc Drive)

To Be Performed By: Customer or HP-qualified personnel

Situation

The HP 3789B may be retrofitted with either a Printer or a Disc Drive. This Service Note lists the required parts and instructions to complete the retrofit.

Continued

DATE: 26 May 1992

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

INFORMATION ONLY

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Parts Required

The Printer retrofit consists of the following parts:-

Description	Part Number	Quantity
Printer Panel and Printer	03789-60065	1
Printer Controller Assy	03789-60023	1
Printer Power Cable Assy	03789-60039	1
Printer Ground Cable Assy	03789-60041	1
Screw M3 50mm	0515-1431	5
Key Cap Paper	5041-4631	1
OEM Printer A160HP	0950-1774	1

The Disc Drive retrofit consists of the following parts:-

Description	Part Number	Quantity
Disc Drive OEM 3.5"	0950-1684	1
Disc Mounting Bracket	03789-00027	1
Disc Front Panel	03789-00223	1
Disc Controller Assy	03789-60123	1
Disc Controller Power Cable	03789-60039	1
Disc Drive Power Cable	03789-60040	1
Ribbon Cable Assy 26-way	03789-60032	1
Screw M3 x 50mm	0515-1431	5
Screw M3 x 6mm	0515-0886	8
Screw 3.5 X 8LG	0515-1431	4

Retrofit Instructions

The retrofit instructions are structured to allow options 010 and 011 to be fitted to a standard HP 3789B and also to allow the options to be interchanged. Select the appropriate section(s) of instructions as necessary.

Front and Side Panel Removal (all instruments)

1. Remove the four rear panel feet and instrument top cover.
2. Remove the handle and side panel on the right hand side of the instrument.
(Note: this step is necessary only if option 011 is to be removed or fitted).
3. Remove the plastic trim from the top of the instrument front frame and remove the four screws revealed beneath the plastic trim.
4. Remove all the screws from the bottom of the front frame, except the two immediately beneath the Power OFF/ON switch.
5. Remove the instrument front panel handles.

6. The front panel can now be withdrawn from the instrument chassis (care should be taken to avoid stressing any of the cabling to the front panel).

Blanking Panel Removal (standard instrument)

7. Unscrew the two nuts which secure the top of the blanking panel to the instrument front panel.
8. Unscrew the two nuts which secure the four DSX3 OUT ports to the blanking panel. Remove the blanking panel, which is no longer required.

Printer Removal (Opt 010)

9. Disconnect the 11-way ribbon cable from the Printer at connector J2 on the Printer Driver Assembly (03789-60023).
10. Disconnect the Printer Driver Assembly power cable from connector J3 on the Printer Driver Assembly and from connector J4 on the Motherboard.
11. Release the latch which holds the Printer + Printer front panel to the instrument front panel and withdraw the Printer and Printer front panel.
12. Unscrew the two nuts which secure the four DSX3 OUT ports to the Printer Panel. Remove the Printer Panel and Printer.
13. Disconnect the 50-way ribbon cable which comes from the Processor Assembly at connector J1 on the Printer Driver Assembly.
14. Remove the five screws which secure the Printer Driver Assembly to the Processor Assembly. Remove the Printer Driver Assembly and the Printer ground cable (color black).

Disc Removal (Opt 011)

15. Disconnect the 26 way ribbon cable which links the Disc Drive to the Disc Controller Assembly (03789-60123) at connector J2 on the Disc Controller Assembly.
16. Disconnect the Disc Controller Assembly power cable from connector J4 on the Disc Controller Assembly and also from connector J4 on the Motherboard.
17. Disconnect the Disc Drive power cable from connector J3 on the Disc Controller Assembly.
18. Disconnect the 50 way ribbon cable which comes from the Processor Assembly at connector J1 on the Disc Controller Assembly.
19. Remove the five screws which secure the Disc Controller Assembly to the Processor Assembly. Remove the Disc Controller Assembly.
20. Remove the Disc Panel by repeating steps 7 and 8 of this Note.

21. Remove the four screws which secure the Disc Drive and Disc Drive bracket to the instrument side frame.
22. Remove the Disc Drive and the Disc Drive bracket from the instrument.

Printer Fitting (Opt 010)

23. If necessary remove the five 20mm screws from the Processor Assembly (03789-60022) which are to be replaced by the longer 50mm screws supplied, to mount the Printer Controller Assembly.
24. Mount the Printer Controller Assembly (03789-60023) on the Processor Assembly, locating the assembly such that the 50-way socket on the Printer Driver Assembly is aligned with the 50-way socket on the Processor Assembly.
25. Secure the Printer Controller Assembly with the five 50mm screws supplied, also attach one end of the Printer ground cable to the Printer Driver Assembly, securing the screw at the bottom left hand side of the Assembly (next to connector J2).
26. Secure the four DSX3 OUT ports to the Printer Panel at the two threaded posts. Also attach the remaining end of the Printer ground cable (colour black) to one of the posts using the existing nuts and washers.
27. Connect the 16-way ribbon cable from the assembled Printer to connector J2 on the Printer Controller Assembly.
28. Connect the remaining Printer Controller Assembly power cable between connector J3 on the Printer Driver Assembly and socket J5 on the Motherboard.
29. Connect the 50-way ribbon cable which comes from the Processor Assembly to connector J1 on the Printer Controller Assembly.
30. Install the Printer Paper as detailed in the HP 3789B Operating Manual Page 5-15.
31. Fit the Printer Panel and Printer to the instrument front panel and secure with the Panel Fastener.
32. To replace the instrument front panel and covers, perform steps 1-6 of this Note in reverse.
33. To verify the Printer is functioning, switch on the HP 3789B and select Display Page 16, Self Test. Select Function [TEST PRINTER] and press the EXEC key. A test printout of the character set should be obtained after a few seconds.

Disc Fitting (Opt 011)

34. Fit four of the eight 6mm screws supplied (0515-1431) to the outer case of the Disc Drive (this is to fix the Disc Drive case to the Disc Drive more solidly).

35. Locate the address select switch on the rear of the Disc Drive and ensure the switch is set to position 1 (ie switch is towards the edge of the Disc Drive).
36. Connect the 26-way ribbon cable (03789-60032) to the 26-way male connector on the rear of the Disc Drive.
37. Connect the Disc Drive power cable (03789-60040) to the 4-way connector on the rear of the Disc Drive.
38. Secure the Disc Drive to the support bracket using the four remaining 6mm screws.
39. Secure the Disc Drive and support bracket to the instrument side frame aligning the holes such that the face of the Disc Drive is flush with the instrument front panel when it is refitted. Secure using the screws supplied (0515-1431).
40. Attach the remaining end of the 26-way ribbon cable to connector J2 on the Disc Controller Assembly and the remaining end of the Disc Drive power cable to connector J3 on the same assembly.
41. Connect the Disc Controller power cable (03789-60039) between connector J4 on the Disc Controller Assembly and connector J5 on the HP 3789B Motherboard.
42. Secure the four DSX3 OUT ports to the Disc Front Panel using the existing nuts and washers.
43. Fit the Disc Front Panel to the instrument front panel and secure it using the existing nuts and washers.
44. To replace the instrument front panel and covers, perform steps 1-6 of this Note in reverse.
45. To verify that the Disc Drive is functioning, switch on the HP 3789B and select Display Page 16, Self Test. Select Function [TEST DISC].
46. Ensure a formatted disc is inserted in the Disc Drive and press the EXEC key. A PASS/FAIL message will be returned on completion of the test.