

S E R V I C E N O T E

SUPERSEDES: None

37717B PDH/SDH/Jitter Test Set

Serial Numbers: 3509U00100/GB99999999

Replacing Blown Fuse on PSU Module.

To be Performed by: Qualified Service Personnel

Parts Required

Description	Part Number	Quantity
Fuse 5A 250V timed	2110-1120	01

Situation

The 37717B Power Supply Module has an internal fuse which under adverse conditions may blow along with the main instrument fuse. Typical symptom will be a blank display, unlit front panel alarm leds and fans not turning even after a new main instrument fuse has been fitted.

Solution/Action

If the above symptoms are seen on any 37717B, it is recommended that the fuse in the power supply module is checked before a replacement Power Supply Module is fitted.

Continued

DATE: October 1996

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

INFORMATION ONLY

AUTHOR:

DBG

ENTITY:

E610

ADDITIONAL INFORMATION:

Follow the procedure below to access and test the fuse in the Power Supply Module.

CAUTION

Suitable safety precautions must be observed when working with the Power Supply Module as lethal voltages are present on and near this assembly. Always ensure the instrument is disconnected from the line supply before starting this replacement procedure.

Procedure

1. Switch off the 37717B and DISCONNECT THE POWER CORD.
2. Remove the rear panel feet.
3. If Optical Modules are fitted (option UH1 or UH2) unscrew the optical shield from the input and output connectors.
4. Withdraw the outer cabinet sleeve back and out of the instrument.
5. Remove the clamp screws along the top and bottom right-hand side of the chassis which secure blanking plates and modules.

CAUTION

Modules must be removed and fitted in the correct sequence to prevent damage.

From Front to back when removing.
From back to front when fitting.

6. Withdraw all modules and blanking plates from the unit using the two knobs to help with removal - if difficult to remove, CAREFULLY lever with a small flatheaded screwdriver. Place modules SAFELY to one side in anti-static bags.

CAUTION

Take careful note of the position of each module in the instrument.
They must be returned to the exact same positions upon reassembly.

7. With the instrument face-up on the bench, unplug the power supply module cables from J8 and J18 on the Motherboard.
8. Cut the plastic tie-wrap which joins the fan cable to A3 J18 cable.
9. Unscrew the 6 posidrive screws securing the Line Input Assembly to the top, bottom and rear of the instrument.
10. Unscrew the torx (or posidrive) screws securing the Power Supply Module to the bottom and rear of the instrument.

11. Remove the Line Input Assembly and Power Supply Module together from the instrument.
12. With the Power Supply Module on the bench, carefully remove the posidrive screws shown in Figure 1. One screw is covered by a "Warranty Void if broken" label. Remove this label to gain access to the screw.

NOTE

The Agilent warranty which covers all parts in the instrument is unaffected by the condition of this label.

13. Lift off the Power Supply Module top cover, taking care not to damage the Input Control cable (black & white wires) which runs through a slot in the cover.
14. The protection fuse is mounted on a PCB on the right-side of the Power Supply Module to the right side of the module fan.
15. Test this fuse using an ohmmeter. If the fuse is blown, replace using the part number above. If the fuse is not blown, suspect a fault on the PSU Module or other area. Use the troubleshooting in the Service Manual to help locate the fault.
16. Re-assemble and fit the PSU Module as a reversal of steps 7 to 13. (Fit a new tie-wrap in step 8.)
17. Replace all the modules back into the instrument in the same order as they were removed.
18. Replace the outer cabinet sleeve, optical module shields and rear panel feet - this is a reversal of the removal procedure.

Testing

CAUTION

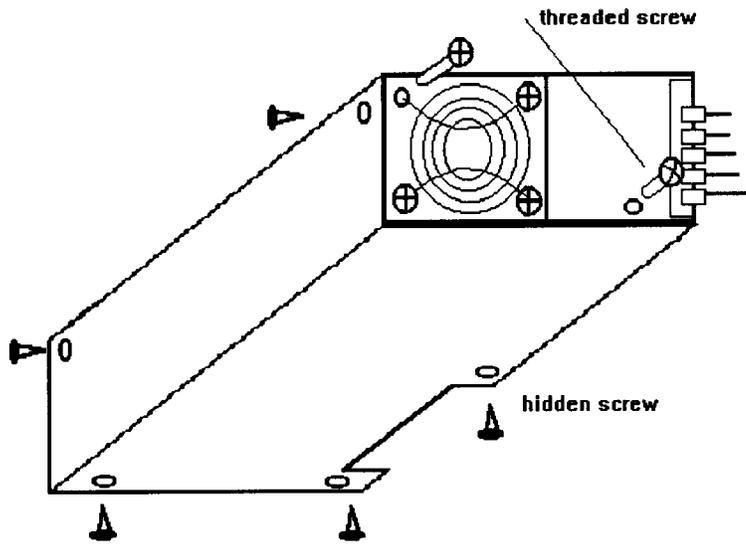
Ensure the voltage selector switch on the instrument rear panel is set correctly for the line voltage in use.

1. Switch on the instrument and check for a valid display.
2. Obtain a pass on all instrument Selftests.

The instrument is now ready for use.

NOTE

If the fault symptoms described above are still present, then it is likely the Power Supply Module is defective. Replace this by following the procedure in Service Note 37717B-03.



Remove all screws shown.

Figure 1 - HP 37717B PSU Module Viewed from Underside