

11759C-01

S E R V I C E N O T E

SUPERSEDES: None

**HP 11759C RF Channel Simulator**

**Serial Numbers:** 3250A00114 / 3250A00159

**220VAC Line Module Miswire**

**Duplicate Service Notes:** 11759D-01

**To Be Performed By:** HP-Qualified Personnel

**Parts Required:**

HP Part No.	Description
00890-0312	Shrink Tubing
11759-60065	Line Module/Cable Assembly (Optional - see text)

**Situation:**

Instruments within the above serial number range may have a miswire in the wiring harness that connects the line module to the power supply module. This will cause the unit to blow line fuses while attempting to power up using 220VAC, but will function normally using 110VAC. The power supply can be affected as the gas-tube crowbar fires in an attempt to protect the power supply from the effects of the miswire.

*Continued*

DATE: 12 August 1993

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
<b>MODIFICATION RECOMMENDED</b>			
ACTION CATEGORY:	<input checked="" type="checkbox"/> IMMEDIATELY <input type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	LABOR: 3.0 Hours
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> HP LOCATION	SERVICE INVENTORY:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	USED PARTS:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AUTHOR: JJ	ENTITY: 0400	RESPONSIBLE UNTIL: 01 August 1998	
		ADDITIONAL INFORMATION:	

**Solution/Action:**

The wiring should be confirmed first. Unplug the line cord from the instrument. The top cover of the instrument should be removed. Make sure that none of the visible RF signal cables on top are moved since calibration may be affected. The shielding plate covering the line module should also be removed by unfastening the six screws holding it in place. One Phillips-type screw attaches the shield to the top of the power supply module, two Torx screws attach it to the frame, and three Torx screws attach the shield to the main deck. Once the shield is removed, compare the wiring with the diagram in this service note. The diagram shows the correct wiring configuration. If the instrument in question does not match (wiring is incorrect), proceed to the next section of this service note for repair details. If the wiring matches (is correct), this service note does not apply.

The miswire should be corrected at the line module. The harness plug can be removed from the power supply module by squeezing the side tabs and pulling on the plug. The ferrite core can be removed by spreading the mounting bracket slightly apart and having the core pulled out from the bracket by grasping the wiring bundle. This may require two persons to accomplish. The line module can next be removed from the rear panel after its two mounting screws (Torx) have been loosened.

The shrink wrap tubing can be cut from the solder lugs on the line module and the wiring altered to match the diagram below. Please note that the ground wire (green/yellow) and the gray wire need not be touched. Also note that the two capacitors on the line module leads should remain in their positions and should be securely soldered. Shrink tubing should be installed on the line module leads as part of this repair procedure. When the wiring has been altered to match the diagram in this service note, the line module and harness can be installed by reversing the removal procedure described above.

Alternatively, the complete line module/cable assembly can be replaced with a new assembly from the HP parts center.

After installation is complete, the normal functioning of the power supply should be confirmed by turning it on and first watching for the four green LEDs on the Clock/Divider board to come up and stay on...there should be no flashing LEDs. The fan should also run normally and not vary in speed or run slowly. The voltages can be verified by accessing test points on the A13 Clock/Divider board as follows:

Test Point	Nominal Voltage
1	+5
2	GND
3	-5
4	+12
5	-12

All voltages +/- 1%

If the power supply cannot be successfully verified or exhibits unusual symptoms, it should be replaced. If the power supply is successfully verified, 11759C performance tests should be run to confirm full functionality.

