

S E R V I C E N O T E

SUPERSEDES: None

**87510A Gain-Phase Analyzer**

**Serial Numbers:** 0000J00000 / 3240J00394

**Modification to increase moisture and dust resistance of power supply circuit**

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

**Parts Required:**

Part No.	Qty.	Description
0757-1094	1	Resistor, Fxd 1.47k

**Situation:**

The 87510A might have power supply failure and show "POWER SHUT DOWN (ANALOG SYSTEM)" message when the 87510A is used in humid and dusty environment.

*Continued*

DATE: 13 June 1994

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
<b>MODIFICATION RECOMMENDED</b>			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	Labor 1.0 Hour
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	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 checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AUTHOR: KI	ENTITY: 3355	AGILENT RESPONSIBLE UNTIL: June 1996	
		ADDITIONAL INFORMATION:	

**Solution/Action:**

The moisture and dust resistance of the power supply circuit can be improved by the following procedure.

**Procedure:**

1. Disconnect the power cable from the 87510A.
2. Remove the bottom cover.
3. Disconnect the wire assembly (20 pin, soldered to the A40 board) from the A20 board.
4. Disconnect two flat cables connected to the A20 board.
5. Disconnect the 6 pin wire assembly and the 12 pin wire assembly from the A40 board.
6. Remove the five screws located at the four corners and the center of the A40 board.
7. Lift the A40 board out.
8. Make certain that the resistance of A40R70 resistor is 2.15 kohm.

**Note:**

\* R70 is located on just left side of U23. "U23" is printed on the board. (See Figure 1).

\* When removing the old A40R70 resistor from the A40 board in the following step, be careful not to cut the printed-circuit pattern.

9. Remove the old A40R70 resistor (2.15 kohm).
10. Install the new A40R70 resistor (1.47 kohm, p/n 0757-1094).
11. Reinstall the A40 board in the 87510A.
12. Turn the 87510A ON and confirm the "POWER ON TEST FAILED" message is NOT displayed.
13. Turn the 87510A OFF.
14. Reinstall the bottom cover on the 87510A.

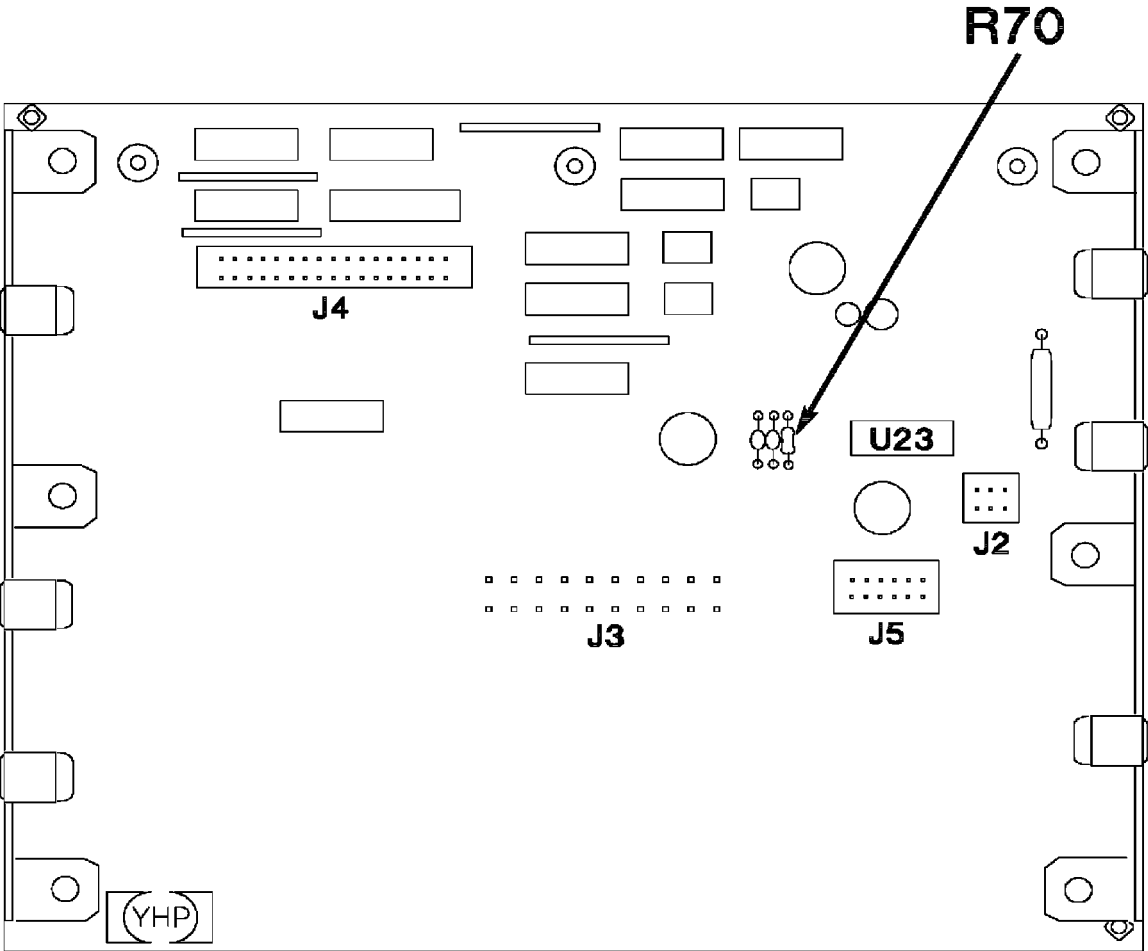


Figure 1. A40 Board Parts Location