

S E R V I C E N O T E

SUPERSEDES: None

87510A Gain-Phase Analyzer

Serial Numbers: 0000A00000 / 9999Z99999

Firmware Revision: 2.04 and below

Firmware update prevents the 87510A from saving incorrect calibration data into floppy disk

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

Part No.	Qty.	Description
087510-86051	1	ROMSET A1 REV 2.11
087510-86052	1	ROMSET A2 REV 2.11

Situation:

1. Perform 1-port calibration (S11).
2. Turn ON the CAL ARRAY and turn OFF all of the other array settings in the definition of the save data.
3. Save the calibration data into the floppy disk.

Continued

DATE: May 1995

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
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: May 1997	
		ADDITIONAL INFORMATION:	

When the above setups are made, the stored calibration data in the floppy disk may stay in incorrect arrays as follows:

	Calibration data obtained	Calibration data stored in the floppy disk
Cal Array -1	E1	E2
Cal Array -2	E2	E3
Cal Array -3	E3	(empty) (Calibration data E1 is lost)

Solution/Action:

The problem is caused by a firmware bug of revision 2.04 and below. Replacing the ROMs on the A1/A2 boards with new ROMs (REV 2.11) solves the problem.

Procedure:

1. Turn the 87510A ON and confirm the firmware revision on the display is 2.04 or below.
2. Turn the 87510A OFF.
3. Remove the top cover and the shield plate.
4. Remove the A1 and A2 boards.
5. Replace the ROMs on the A1 board with the following new ROMS:

Reference Designator	Part Number
A1U43	87510-85811
A1U44	87510-85812
A1U45	87510-85813
A1U46	87510-85814
A1U47	87510-85815
A1U48	87510-85816

(included in 087510-86051))

6. Replace the ROMs on the A1 board with the following new ROMS:

Reference Designator	Part Number
A2U1	87510-85421
A1U2	87510-85422

(included in 087510-86052)

7. Reinstall the A1 board.
8. Turn the 87510A ON and confirm that the “REV2.11” is displayed and the “POWER ON TEST FAILED” message is NOT displayed.
9. Turn the 87510A OFF.
10. Reinstall the shield plate and the top cover.

