

## S E R V I C E N O T E

SUPERSEDES: None

**87510A Gain-Phase Analyzer****Serial Numbers:**

3240J00453, 3240J00456 / 3240J00464, 3240J00478 / 3240J00495,  
 3240J00497, 3240J00498, 2340J00532, 3240J00535 / 3240J00539,  
 3240J00541, 3240J00570 / 3240J00572, 3240J00576 / 3240J00591,  
 3240J00593

**Firmware Revision:** Rev 2.04 only**Modification to fix the power-on test failure in internal test No. 18****To Be Performed By:** Agilent-Qualified Personnel**Parts Required:**

Part No.	Qty.	Description
87510-86041	1	A1 ROM SET REV2.10
87510-86042	1	A2 ROM SET REV2.10

**Situation:**

When a series of power-on selftests are performed after turning on the instrument, the Internal Test No. 18 may fail in spite of the normal operation.

*Continued*

DATE: February 1995

## 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: February 1997	
		ADDITIONAL INFORMATION:	

**Solution/Action:**

If the internal test No. 18 fails when a series of power-on selftests are executed, perform individual test by the following procedure:

1. Press [SYSTEM] hardkey and {SERVICE MENU} {TESTS} softkeys.
2. Enter the test number by pressing [1][8][x1] hardkeys.
3. Execute the test by pressing {EXECUTE TEST} softkey.
4. Check the test result.
  - If the test result “FAILED” is displayed, the 87510A actually has some problem in the tested function. Refer to Service Manual for troubleshooting.
  - If the test result “PASSED” is displayed, the problem might be caused by a firmware bug of the 87510A revision 2.04. Replace the A1 and A2 ROMs according to the following procedure.

**Procedure:**

1. Remove the A1 and the A2 boards according to the Replacement Procedure in the Service Manual.
2. Replace the six ROMs on the A1U43 through A1U48 of the A1 board.
3. Replace the two ROMs on the A2U1 and A2U2 of the A2 board.
4. Reinstall the A1 and A2 boards.
5. Turn the 87510A On and confirm that the Internal Test 18 does NOT fail.