

S E R V I C E N O T E

SUPERSEDES: None

**HP 87510A Gain-Phase Analyzer**

**Serial Numbers:** 0000J00000 / 3240J00158

(Firmware Revision 1.00 and 2.00)

**Modification eliminates the incorrect results of "OUTPLIMF?" and "OUTPLIML?"**

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

**Parts Required:**

HP Part No.	Qty.	Description
87510-86011	1	A1 ROM set Rev. 2
87510-86012	1	A2 ROM set Rev. 2 *1
87510-90100	1	Manual Change Sheet (For English user) *1
87510-97100	1	Manual Change Sheet (For Japanese user) *1

NOTE \*1 Required if the unit's firmware is revision 1.00

**Situation:**

The "OUTPLIMF?" and "OUTPLIML?" may return incorrect results and the description in the manual is also incorrect.

*Continued*

DATE: 30 November 1992

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: 2.0 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	RESPONSIBLE UNTIL:	30 November 1994
AUTHOR: YH	ENTITY: 3355	ADDITIONAL INFORMATION:	

**Solution/Action:**

This bug was fixed at the firmware revision 2.01 and above.

Replace six ROMs on the A1 board with new ROMs, If the unit's firmware is revision 1.00, also replace two ROMs on the A2 board.

**Procedure:**

1. Remove the A1 and the A2 boards according to the Replacement Procedures 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, if the unit's firmware is revision 1.00.
4. Reinstall the A1 and A2 boards.
5. Inform the end-user of the manual correction which is described below.

In page 3-44 in the HP-IB Programming Manual of the Operation Manual (PN 87510-90000, Print Date: Dec. 1991),

OUTPLIMF? : Outputs the limit test results only for the failed points.  
Data format: (stimulus, 1, upper limit, lower limit; Form4)  
If no test or no failed point, only 0 is returned.

OUTPLIML? : Outputs the limit test results for each point.  
Data format: (stimulus, result(1 for fail, 0 for pass, -1 for no test),  
upper limit, lower limit; Form4)

6. If the unit's firmware is revision 1.00, proceed the next steps a) through c). If the unit's firmware is revision 2.00, this procedure is over
  - a) Perform the Power Level Linearity Correction Constants. See the chapter 2 in the service manual.
  - b) Perform the Source Level Accuracy/Flatness Test and the Source Power Linearity Test. See the maintenance manual.
  - c) Attach the manual change sheet to the unit and return them to the end-user.