

S E R V I C E N O T E

SUPERSEDES: None

**HP 85106C Millimeter-wave Network Analyzer System
 HP 85105A Millimeter-wave Controller
 HP 85109B On-wafer Network Analyzer System**

Serial Numbers: HP 85106C 3012A00101 / 3012A00104
 HP 85109B 3002A00003 / 310A00102

All systems that contain an HP 83650A or 83651A synthesized source must be modified.

To Be Performed By: Customer or HP-Qualified Personnel

Situation:

The HP 85105A Millimeter-wave Controller, which is a part of the HP 85106C and the HP 85109B systems, requires 0.5 V/GHz which is supplied by the RF source in the system. The HP 83650A and 83651A synthesized sources come set for 0.25 V/GHz. Using one of these sources in an HP 85106C or HP 85109B system can result in several dB of power slope and output power inaccuracy in the system.

Solution:

A modification to the HP 83650A and 83651A will change the 0.25 V/GHz to 0.5 V/GHz. This modification is customer installable because it only requires 2 switch positions in the HP 83650A or 836501 to be changed.

1. Disconnect the AC power line from the synthesizer.

Continued

DATE: 01 October 1991

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	<input checked="" type="checkbox"/> IMMEDIATELY <input type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	LABOR
LOCATION CATEGORY:	<input checked="" type="checkbox"/> CUSTOMER INSTALLABLE <input checked="" type="checkbox"/> ON-SITE <input type="checkbox"/> HP LOCATION	SERVICE INVENTORY:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	RESPONSIBLE ENTITY: 4500	USED PARTS: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> SEE TEXT
AUTHOR: LH	ENTITY: 4500	UNTIL: 01 October 1992	
		ADDITIONAL INFORMATION:	

2. To prevent damage to the source, be sure you are properly grounded during this procedure.
3. Using a T-10 Torx screwdriver, remove the top cover of the HP 83650A or HP 83651A.
4. Locate the A12 Multiplier/Filter Driver Assembly. The board has one brown tab on the left and one red tab on the right hand side of the board.
5. There is a switch, S1, located directly under the brown tab. Move switch positions 3 and 4 to the closed position. This will now produce a 0.5 V/GHz signal.
6. Replace the top cover.