

I N T E R - O F F I C E S E R V I C E M E M O

December 15, 1980

To: ALL IPG SALES AND SERVICE MANAGERS
From: NETWORK MEASUREMENTS DIVISION, SANTA ROSA
Subject: 8743B REFLECTION-TRANSMISSION TEST UNIT
* PRODUCT SUPPORT PLAN

8743A

The 8743B Reflection-Transmission Test Unit is electrically similar to the 8743A except that two internal RF cables (W2, W6) have been made longer to correspond to the 11610B Semi-Rigid Cable electrical length. The 8743B provides the capability to obtain equal reference and test channel lengths in both reflection and transmission modes using the 11610B cable and a 10 dB attenuator rather than the 11605A Flexible Arm.

Because the electrical characteristics of the 11610B Semi-Rigid Cable are superior to the 11605A Flexible Arm, the 11610B cable is recommended for use as the transmission return device for all 8410A/B Series Network Analyzers.

NOTE

Equal reference and test channel electrical length can only be obtained in the reflection mode when using the 8743B with an 11605A Flexible Arm. In the transmission mode the 11605A with a 10 dB attenuator is too short to obtain equal length.

8743A TO 8743B UPDATE

Customers who presently have 8743A Reflection-Transmission Test Units and want to use the 11610B Semi-Rigid Cable may have their 8743A modified to be electrically equal to the 8743B.

To make arrangements to obtain this modification contact Fred Lotz at Instrument Service Center (ISC), Mt. View, California or Jean Claude Krynicki in Orsay, France. Appropriate scheduling of these updates can reduce turn-around-time. For customers having a critical application, loaner units are available from ISC for a nominal fee. Customers requesting a loaner unit should have an 11610B cable since the loaners will be updated 8743A units.

Hal Ferguson (DIV 4500)



8743A to 8743B UPDATE (Cont'd)

Only standard and Option 018 8743A units will be considered for this modification. The 8743A Option H26 or other high incident power option units will not be considered for this update.

The cost for this modification will be approximately \$350 for parts and approximately 4 hours labor. This includes testing of the unmodified unit to verify that all other performance functions meet specifications.

8743B MECHANICAL IMPROVEMENTS

New 8743B units will include a front panel, with appropriate label (i.e., 2–12.4 GHz or 2–18 GHz). The new front panel can be removed from the instrument by removing three screws holding the bottom trim strip. To remove the 8743A front panel it was necessary to remove the side rails. We consider this a significant improvement since it is necessary to remove the front panel to provide access to the directional couplers. The new front panel will not be part of the 8743A to B update.

8743B OPERATING AND SERVICE MANUAL

The 8743B Operating and Service Manual, HP Part No. 08743-90040 will be available by January 1981.

REPAIR STRATEGY

The 8743B repair strategy is the same as the 8743A (i.e., Return to HP for component level bench repair). It should be noted that if at all possible repairs should be completed at the local level. Mechanical shock during shipment can cause internal RF cables to move, resulting in an RF hold or discontinuity.