

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

SUPERSEDES: None

**83752A H95 Synthesized Sweeper  
(Used in the 11758V H95 System)****Serial Numbers:** 0000A00000 / 3160A00752**Inspection and replace H95 external detector cable (rear panel cable).****To Be Performed By:** Agilent-Qualified Personnel**Parts Required:**

Part No.	Description
70340-60012	Cable

**Situation:**

When using the H95 feature the instruments provides too much power (20 dBm) to the rear RF output connector. The current external detector cable uses an SMB connector to connect to A26 crystal detector. The SMB connector spring tension may relax and fail to make solid connection to the detector and appear as an open to the ALC loop. An open to the ALC loop can result in too much power.

*Continued*

DATE: August 1996

## ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
<b>MODIFICATION RECOMMENDED</b>			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input type="checkbox"/> ON SPECIFIED FAILURE <input checked="" type="checkbox"/> AGREEABLE TIME	STANDARDS: Labor 2.0 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	USED PARTS: <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE		AGILENT RESPONSIBLE UNTIL: August 1998
AUTHOR: DM	ENTITY: 5320	ADDITIONAL INFORMATION:	

**Solution/Action:**

To replace W36 part number 8120-5040 (SMB connector) with 70340-60012 (SMC connector). W36 connects to A26 Negative Detector and the rear panel. The 70340-60012 SMC connector screws onto the detector providing a solid connection.

The instrument should be inspected and the cable replaced during normal servicing.

The price of the material should be charged to extended warranty. If the parts are installed at a Agilent Technologies Service Center, labor charges are also covered by extended warranty.

**Procedure:**

Here are the steps required to replace the aux RF detector output cable from P/N 8120-5040 to the P/N 70340-60012. (REF DESG W36)

**Tools required:**

- T15 torx screwdriver
  - 1/4 inch Nutdriver
  - 6mm or 15/64" open end wrench
1. Remove the 4 feet using the T15 torx screwdriver.
  2. Remove instruments top cover, bottom cover and the side cover on the RF Deck side using the T15 torx screwdriver.
  3. Remove the SMB cable connector (REF DESG W36) from the rear panel hold labeled "ALC out" using the 1/4 inch Nutdriver.
  4. Remove the other end of the cable (REF DESG W36) from the AUX detector (REF DESG A26) using the 6mm or 15/64" open end wrench.
  5. Screw the cable P/N 70340-60012 SMC connector onto the AUX detector and torque connector approx. 10 in.lb. using the 6mm or 15/64" open end wrench. Position connector so that it will not interfere with installing the side cover.
  6. Route cable P/N 70340-60012 over RF Deck to rear panel and install the SMB connector into the hold labeled "ALC out" and secure with lockwasher and nut supplied with cable. Torque to 8 in.lb. using 1/4 inch Nutdriver.
  7. Install side cover, bottom cover and top cover.
  8. Install the 4 feet.

**Verification:**

No adjustments are needed. Only verification of AUX RF OUTPUT leveling.

1. Set the 83752A-H95 as follows:

START FREQ: .....2 GHz  
STOP FREQ: .....20 GHz  
ALC: .....Diode  
POWER LVL: .....0 dBm  
SWEEP: .....AUTO

2. Verify the ALC unleveled annunciator remains OFF during sweep.
3. Connect a network or scalar analyzer to the 83752A-H95 rear panel “AUX RF OUTPUT” and verify the power is leveled. Change power level and verify the AUX RF OUTPUT power level changes accordingly.

This completes the 83752A-H95 W36 replacement cable procedure.