

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

SUPERSEDES: None

**8720C Vector Network Analyzers**

Serial Numbers: 0000A00000 / 3124A00215

**Duplicate Service Notes:**

8719C-01

8722A-01

**Bias Tee Connector Reversed on Some 8719C, 8720C, and 8722As****Parts Required:**

Part No.	Description	Qty.
Any	Ohmmeter	1
Any	T-10 Torx driver	1
Any	Short 3.5 mm short for test port (2.4 mm for the 8722A)	1

**Situation:**

A couple of instruments in the new 8720C family (8719C, 8720C, and 8722A) have been found to have the connector on J12 of the A51 Test Set Interface Board connected backwards. This causes discontinuity between the rear bias input connectors and the front panel ports.

*Continued*

DATE: 04 March 1992

## 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: 0.7 Hours	
LOCATION CATEGORY:	<input checked="" type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input 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 type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE		AGILENT RESPONSIBLE UNTIL: Product's support life
AUTHOR: JK	ENTITY: 4500	ADDITIONAL INFORMATION:	

**Solution/Action:****CAUTION**

Front panel test port connectors are easily damaged! Never connect any dirty, damaged, or out of tolerance cables or connectors to the test ports. Use proper ESD precautions such as an anti-static mat and grounded wrist strap when performing this check.

Check the wiring by measuring the resistance between the inner and outer conductor of the port-1 cable with an ohmmeter. To avoid damage do not touch the center conductor directly with the ohmmeter cable. Make the measurement on a non-critical cable or adapter that has been carefully connected to the test port. If the resistance is less than 10 ohms, the connector on J12 of the A51 board is probably backwards.

To reverse the orientation of the connector on J12, remove top and side covers as described on the Replacement Procedures tab in the Service Manual. Gain access to the bottom box by removing the four screws on the side rails that secure the top to the bottom and pivoting the instrument open. Check the orientation of the connector on J12 of the A51 board. The A51 is the board that is oriented vertically about half way between the front and back of the instrument. J12 is at the extreme lower right hand corner of the A51 board as viewed from the front. The wire colors on the connector should be, from left to right: gray, white, black.

If the connector wire colors are reversed, remove the connector from the A51 board by pulling straight away from the board while holding the board in place to reduce stress on the board. Remove the orientation key from J12 in the same manner as the connector and re-install it with the protruding key on top of the contacts. Plug the connector back in and the wire colors should be as described above. Recheck continuity and if correct, reassemble the instrument in the reverse order of disassembly.

As a post repair check, perform service test 21 and 22 as described in the Verification section of the Service Manual.