

S E R V I C E N O T E

SUPERSEDES: None

4396A Network Spectrum Analyzer

Serial Numbers: 0000J00000 / 3241J00208

Duplicate Service Notes: None

“POWER ON TEST FAILED” at Low Temperature

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

Part No.	Qty.	Description
04396-66503	1	A3A1 ALC

Situation:

The above serial numbered 4396As may fail the power on self tests because the source oscillator circuit in the A3A1 assembly does not work properly at low temperature. When turning the analyzer on after keeping it at low temperature (lower than 5deg C), a “POWER ON TEST FAILED” message may appear.

Solution/Action:

When “POWER ON TEST FAILED” is displayed at power-on, press [System], {SERVICE MENU}, and {TESTS}. Then press the upper arrow keys to find the first occurrence of a FAIL message for internal tests 1 through 16.

Continued

DATE: 10 June 1993

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:					
MODIFICATION RECOMMENDED					
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	Labor 2.0 hrs		
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 checked="" type="checkbox"/> SEE TEXT	USED PARTS:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE		AGILENT RESPONSIBILITY UNTIL: 30 June 1995		
AUTHOR: TS	ENTITY: 3355		ADDITIONAL INFORMATION:		

If “13:A3A1 SOURCE OSC” is the first failed test, replace the A3A1 assembly. For the replacement procedure, see 4396A Service Manual (pn 04396-90101).

If the first failed test is not “13:A3A1 SOURCE OSC”, troubleshoot the analyzer in accordance with 4396A Service Manual (pn 04396-90101).

After replacing the A3A1, perform the following adjustments and performance tests. Use the 4396A performance test program (pn 04396-65001).

Adjustments required after replacing A3A1 assembly:

- RF OUT Level CC

Performance tests required after replacing A3A1 assembly:

- Source Level Accuracy/Flatness Test
- Non-Sweep Power Linearity Test
- Power Sweep Linearity Test
- Harmonics/Non-Harmonic Spurious Test
- Input Crosstalk Test
- Other Spurious Test
- Residual Response Test