4396A-06

S	5	Е	R	V	I	С	Е	Ν	0	Т	Е	
	4396	6A Netv	work S	Spectr	um A	nalyze	r	SUPERSED	ES: None			
	Serial Numbers: 0000J00000 / 3241J00146											
	Duplicate Service Notes: None											
	"POWER ON TEST FAILED" or "PHASE LOOK LOOP UNLOCKED" at Low Temperature											
	To Be	e Perforn	ned By:	Agilent	-Qualif	ied Perso	onnel					
	Part 1	Require No. 5-69513	ed: Qt			iption 2nd LO	(Re-Buil	t Assembly)				
	LO do ing it	bove seri bes not w at low te	ork proj mperatu	perly at l re (lowe	ow ten r than :	perature	. Ŵhen ti a "POWI	on self tests bec urning the analy ER ON TEST Fa opear.	zer on afte	r keep-		
									_	ontinued		
								DATE: 10 Jur	1993 ne			

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:								
MODIFICATION RECOMMENDED								
ACTION CATEGORY:	 IMMEDIATELY ON SPECIFIED FAILURE AGREEABLE TIME 	STANDARDS: Labor 3.0 hrs						
LOCATION CATEGORY:	 CUSTOMER INSTALLABLE ON-SITE SERVICE CENTER 	SERVICE RETURN USED RETURN INVENTORY: SCRAP PARTS: SCRAP SEE TEXT SEE TEXT						
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: 30 June 1995						
AUTHOR: TS	ENTITY: 3355	ADDITIONAL INFORMATION:						

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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. If "10:A3A2 2ND LO" is the first failed test, replace the A3A2 assembly. For the replacement procedure, see 4396A Service Manual (pn 04396-90101).

If the first failed test is not "10:A3A2 2ND LO", troubleshoot the analyzer in accordance with 4396A Service Manual.

When "PHASE LOOK LOOP UNLOCKED" is displayed:

Press [System], {SERVICE MENU}, and {TESTS}, [0], [x1], and {EXECUTE TEST} to run the internal test 0:ALL INT. Then press the upper arrow keys to find the first occurrence of a FAIL message for internal tests 1 through 16. If "10:A3A2 2ND LO" is the first failed test, replace the A3A2 assembly. For the replacement procedure, see 4396A Service Manual (pn 04396-90101).

If the first failed test is not "10:A3A2 2ND LO", troubleshoot the analyzer in accordance with 4396A Service Manual.

After replacing the A3A2, perform the following adjustments and performance tests. Use the 4396A performance test program (pn 04396-65001).

Adjustments required after replacing A3A2 assembly:

- Second Local PLL Lock Adjustment
- Source Mixer Local Leakage Adjustment
- RF OUT Level CC (Correction Constants)
- Spectrum Analyzer Absolute Magnitude CC
- Network Analyzer Absolute Magnitude CC

Performance tests required after replacing A3A2 assembly:

- Source Level Accuracy/Flatness Test
- Non-Sweep Power Linearity Test
- Power Sweep Linearity Test
- Harmonics/Non-Harmonic Spurious Test
- Input Crosstalk Test
- Absolute Amplitude Accuracy Test
- Noise Sideband Test
- Frequency Response Test
- Other Spurious Test
- Residual Response Test