

S E R V I C E N O T E

SUPERSEDES: NONE

8902A Measuring Receiver

Serial Numbers: 3920A04671/3920A04741

RF Frequency Tuning and TRFL Measurement Errors

Duplicate Service Notes: 8901B-08

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

P/N	Description	Quantity
0161-0897	Capacitor, 0.02uF/100V	10

Situation

A problem has been noted with certain Measuring Receivers (serial numbers noted above) while performing input frequency tuning or TRFL (Tuned RF Level) measurements. Symptoms include drifting and unstable power readings, or intermittent Error 01 indications. RF Power measurements with the broadband power meter are not affected. The problem is caused by defective decoupling capacitors on the A22 Low Frequency VCXO assembly 08901-60007. The LFVCXO stabilizes the LO (Local Oscillator) which is used to downconvert the input signal to an IF using the RF mixer.

Continued

DATE: November 2001

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 1.5 Hours
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 checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: November 2003	
AUTHOR: DS	ENTITY: 1000	ADDITIONAL INFORMATION: Service inventory was checked and reworked by mid-October 2001	



Solution / Action:

Identify and replace the original square, red capacitors (0160-3459), with 0161-0897 (small yellow body). There are a total of 10 parts which require replacement, C3, C5-7, C10-11, C14, C19, C23, and C25. Refer to the included component locator. Re-calibration is not required. Assembly-level replacement is not covered by this service note.