

S E R V I C E N O T E

SUPERSEDES: NONE

ESG "B" Series RF Signal Generators

EMI suppression filters on the reference boards with part numbers E4400-60009 and E4400-60010 (A11 - Assembly 11), may short power supplies or cause no digital control on the ESG.

SERIAL NUMBERS:

- E4400B:-04 US40050929-US40051015
- E4420B:-03 US40050877-US40050964
- E4421B:-03 US40051418-US40051600
- E4422B:-03 US40050701-US40050809
- E4430B:-03 US40050341-US40050387
- E4431B:-03 US40050515-US40050527
- E4432B:-03 US40052793-US40053733
- E4433B:-02 US40051623-US40052040

TO BE PERFORMED BY:Agilent Technologies qualified personnel.

PARTS REQUIRED:

P/N	Description	Qty
E4400-60009	Bd Assy-Reference, OCXO (Option 1E5)	1
or		
E4400-60010	Bd Assy-Reference, TCXO	1

Continued

DATE: October 2000

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 4.0 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
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	USED PARTS:	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AUTHOR: SN	ENTITY: 5331	AGILENT RESPONSIBLE UNTIL: Support Life	
		ADDITIONAL INFORMATION:	



SITUATION:

EMI suppression filters (pn 9135-0461) on reference boards with part numbers E4400-60009 and E4400-60010 (A11), may short power supplies or cause no digital control on the ESGs mentioned above. During of some of the A11 boards, corrosive flux came in contact with the filters. As a result, when the instrument is in normal operation, the filters may short to ground. This process has now been changed to prevent the corrosion problem. If there are any failures, they should occur within two to six months of normal operation. A high temperature and low humidity environment will dry out the remaining flux and prevent the filters from being shorted to ground. It is estimated that approximately 4.0 % (12 to 16 units) will fail.

SOLUTION:

Maintenance is required on the specific failure. Service will be provided at Agilent Service Centers (for locations see the ESG Family Signal Generators User's Guide). The resolution will be to replace the reference board A11 and do all the necessary performance test in accordance with the ESG Family Signal Generators Calibration Guide.