

S E R V I C E N O T E

SUPERSEDES: 4194A-10A

4194A Impedance/Gain-Phase Analyzer

Duplicate Service Notes: None

Modification to remedy blinking Overload lamp for Test Channel Input

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

Part No.	Description	Qty.
0757-0420	Resistor 750 ohm	2
0698-0084	Resistor 2.15 kohm	2
0757-0440	Resistor 7.5 kohm	2

Situation:

The 4194A may exhibit a blinking overload lamp on the Test Channel Input, although the signal level is actually under the overload level. The typical symptom can be confirmed by the following procedure.

Continued

DATE: 23 January 1992

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	☐ IMMEDIATELY ☒ ON SPECIFIED FAILURE ☐ AGREEABLE TIME	STANDARDS: Labor 1.0 hrs	
LOCATION CATEGORY:	☐ CUSTOMER INSTALLABLE ☐ ON-SITE ☒ SERVICE CENTER	SERVICE INVENTORY: ☐ RETURN ☐ SCRAP ☐ SEE TEXT	USED PARTS: ☐ RETURN ☐ SCRAP ☐ SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE		RESPONSIBLE ENTITY: 3301 UNTIL: 23 January 1994
AUTHOR: MT	ENTITY: 3301	ADDITIONAL INFORMATION:	



Procedure:

1. Connect one of dual output to Reference Channel input with BNC-to-BNC cable.
2. Connect another dual output to Test Channel input with BNC-to-BNC cable.
3. Set the controls as follows and observe if the overload lamp is blinking.

Function:	GAIN-PHASE, Tch/Rch (dB)-Theta
Osc Level:	-1 dBm
Frequency;	START = 30 kHz, STOP = 150 kHz
Integ Time:	MED
Averaging Time:	4
OUTPUT:	DUAL
Input Attenuation:	0 dB (Reference Channel/Test Channel)

Solution/Action:

1. Disassemble the A26 Measurement Unit Keyboard from the Measurement Unit

NOTE

Refer to 8-11 DISASSEMBLY, the SERVICE MANUAL
(P/N 04194-90100) Page 8-10.

2. Replace both A26R18 and A26R19 with P/N 0757-0420 750 ohm resistors.
3. If the overload lamp is still blinking, replace A26R19 with P/N 0698-0084 2.15 kohm resistors.
4. If the overload lamp is still blinking, replace A26R19 with P/N 0757-04400 7.5 kohm resistors.
5. Reassemble the A26 Measurement Unit Keyboard.