

S E R V I C E N O T E

SUPERSEDES: None

34401A Multimeter

Serial Numbers: 3146A19000 / 3146A28000

Improve time stability of readings on DC current ranges (10mA and 100mA)

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

Part No.	Description	34401A Reference Designator
0699-3413	R-F 5 ohm, .125W	A1R121

Situation:

Some of the current shunt resistors installed in the 34401A (see range of serial numbers above) change value with time enough so that the product will not meet the published specifications during the specific calibration period (90 days or 1 year).

Solution/Action:

Replace the defective resistor with a good resistor.

Continued

DATE: 28 February 1994

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 1.0 Hour
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: DLL	ENTITY: 0900	AGILENT RESPONSIBLE UNTIL: 01 March 1997	
		ADDITIONAL INFORMATION:	

Identification of units needing modification: The resistor decreases in value with time. Any units within the above serial number range with readings closer to the lower specification limit should be opened-up and checked for the potentially problem resistor (see the following table for readings on the DC 100mA range with 100mA applied where the unit does not need to be opened.)

Time since last calibration	34401A readings should exceed (after 1hr. warm-up at 6 1/2 digits)
90 days or less	99.9750 mA
1 year or less	99.9550 mA

The resistors with the potential problem are “red” in color and have the word “MAR” followed by a number printed on the part.

All other resistors used to date have been “black or gray” but could be supplied as a different colored part in the future.