

S E R V I C E N O T E

SUPERSEDES: 42841A-04A

42841A Bias Current Source

Serial Numbers: 42841A: 0000A00000 / 9999Z99999
 (4284A: Firmware Revision 1.11 and below)
 (4285A: Firmware Revision 1.10 and below)

Duplicate Service Notes: None

Modification to prevent the 42841A Bias Current Source A4 board's fuses from blowing

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

P/N	Description	Qty.
42841-69502	Bias Current Sink (Re-built)	1
42841-69503	Bias Current Source (Re-built)	1

Situation:

When the 42841A is used with the 4284A/4285A Precision LCR Meter, the 42841A fuses (A4F2, A4F3, A4F4, and A4F5) may sometimes blow because of the deteriorated relays on the A2 and A3 boards. The deterioration of the relays may be caused by a 4284A (revision 1.11 and below)/4285A (revision 1.10 and below) firmware bug.

Continued

DATE: December 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 1.5 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
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	USED PARTS:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> SEE TEXT
AUTHOR: YM	ENTITY: 3355	AGILENT RESPONSIBLE UNTIL: July 1995	
		ADDITIONAL INFORMATION:	

When A4F2 or A4F3 blows, it causes there to be no bias current in the 1A range. When the A4F4 or A4F5 blows, it causes there to be no bias current in the 5A range.

Solution/Action:

1. Replace the blown fuses.
2. Replace the A2 board with P/N 42841-69502.
3. Replace the A3 board with P/N 42841-69503.
4. Perform adjustment referring to the 42841A Service Manual.
5. When the 42841A is used with the 4284A, replace 4284A ROMs to version 1.20 referring to Service Note 4284A-11A. When the 42841A is used with the 4285A, replace the 4285A ROMs to 2.00 referring to Service Note 4285A-09A.

NOTE

This service note is effective only for the case of using 4284A firmware revision 1.11 and below, or 4285A firmware revision 1.10 and below.