S E R V I C E N O T E

SUPERSEDES: 4284A-11

4284A Precision LCR Meter

Serial Numbers: 0000A00000 / 9999Z99999

Firmware Revision: Rev 1.11 and below

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

Duplicate Service Notes: None

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

Part No.	Qty.	Description
04284-86303	1	ROM Set Rev. 1.20

Situation:
When the 4284A (firmware revision 1.11 and below) is used with the 42841A Bias Current Source, the 42841A fuses (A4F2, A4F3, A4F4, and A4F5) may sometimes blow because of a 4284A firmware bug. When A4F2/A4F3 blow, it causes there to be no bias current in the 1 A range, and when A4F4/A4F5 blow, it causes there to be no bias current in the 5 A range.

Continued

DATE: December 1994

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

MODIFICATION RECOMMENDED

ACTION CATEGORY:	☐ IMMEDIATELY ☑ ON SPECIFIED FAILURE ☐ AGREEABLE TIME	STANDARDS: Labor 0.5 Hour			
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	AGILENT RESPONSIBLE UNTIL: July 1995			
AUTHOR: YM	ENTITY: 3355	ADDITIONAL INFORMATION:			

Agilent Technologies

Solution/Action:

(1) For 4284A

Replace the 4284A ROMs to revision 1.20 according to the following procedure.
Performance tests and adjustments are not required.

(2) For 42841A

Replace the blown fuses and the A2, A3 boards of the 42841A referring to Service Note
42841A-04B.

4284A ROM Replacement Procedure:

1. Remove the two feet located on the top of the rear panel to remove the top cover.

2. Remove the shield plate which doesn't have the warning message.

3. Remove the A7 digital control board, which has the black and violet board extractor.

4. Replace the ROMs with the new ROMS.

5. Reinstall the A7 board.

6. Turn the 4284A ON to confirm that the firmware version is 01.20. (The firmware version is displayed on the lower left side of the LCD at the start of the turn on process).

7. Replace the shield plate, the top cover, and the two feet.