

S E R V I C E N O T E

SUPERSEDES: None

**4155A Semiconductor Parameter Analyzer
04155-66501/04155-69501 CPU Assembly**

Serial Numbers: See below.

Firmware update to fix SMU glitch problem

Duplicate Service Notes:

4155A-13 Serial Numbers: 0000A00000/9999Z99999
4156A-14 Serial Numbers: 0000A00000/9999Z99999

To be Performed by: Agilent-qualified personnel

Parts Required:

| P/N | Description | Quantity |
|-------------|---------------|----------|
| 04155-85235 | SMUC ROM 1.11 | 1 |

Situation:

Unexpected voltage may be forced after sweep measurement with the following conditions.

- Voltage sweep is from 0 V to a voltage lower than n-2.0 V.
- Auto range or limited auto range is used.
- 10 nA or lower range is used when voltage sweep is finished.

Continued

DATE: September 1998

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 0.5 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 type="checkbox"/> SEE TEXT |
| AVAILABILITY: | PRODUCT'S SUPPORT LIFE | USED PARTS: | <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT |
| AUTHOR: MO | ENTITY: 3300 | AGILENT RESPONSIBLE UNTIL: July 2000 | |
| | | ADDITIONAL INFORMATION: None | |

Solution/Action:

Update the SMU controller (SMUC) firmware to 1.11 by replacing the SMUC ROM on the 04155-66501/04155-69501 CPU Assembly. For replacement procedure, see "Replacement Procedures" in the 4155A/4156A Service Manual (P/N 04155-90600). The HOSTC firmware revision need not be changed.

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|------|--------------------|
| ROM | New Revision P/N |
| SMUC | 04155-85235 (1.11) |

To do this replacement, 41501A,B SMU/PGU Expander is not necessary.