

S E R V I C E N O T E

SUPERSEDES: None

**4156A 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 -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:			
<b>MODIFICATION RECOMMENDED</b>			
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.

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

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