

S E R V I C E N O T E

SUPERSEDES: NONE

HP 4156A Semiconductor Parameter Analyzer**04155-66501/04155-69501 CPU Assembly****Serial Numbers:** See below.**SMU controller firmware update to fix SMU glitch problem****Duplicate Service Notes:**

4155A-11 Serial Numbers: 0000A00000/JP10A01100
 4156A-12 Serial Numbers: 0000A00000/JP10A01189

To be Performed by: HP-qualified personnel**Parts Required:**

HP P/N	Description	Quantity
04155-85225	SMUC ROM 1.09	1

Situation:

Unexpected voltage is forced when sampling/sweep measurement is done with the following conditions.

- Current is forced before the measurement.
- Current output is less than 10 uA after the measurement.
- Voltage compliance value and output voltage are more than 20 V.

Continued

DATE: August 1998

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

MODIFICATION RECOMMENDED

ACTION CATEGORY:	IMMEDIATELY ON SPECIFIED FAILURE AGREEABLE TIME	STANDARDS:	LABOR 1.0 Hours		
LOCATION CATEGORY:	CUSTOMER INSTALLABLE ON-SITE HP LOCATION	SERVICE INVENTORY:	RETURN SCRAP SEE TEXT	USED PARTS:	RETURN SCRAP SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	HP RESPONSIBLE UNTIL: August 2000			
AUTHOR: MO	ENTITY: 3300	ADDITIONAL INFORMATION:			

Solution/Action:

Update the SMU controller (SMUC) firmware to 1.09 by replacing the SMUC ROM on the 04155-66501/04155-69501 CPU Assembly. For replacement procedure, see "Replacement Procedures" in the HP 4155A/4156A Service Manual (HP P/N 04155-90600). The HOSTC firmware revision need not be changed.

ROM	New Revision P/N
SMUC	04155-85225 (1.09)

To do this replacement, HP 41501A SMU/PGU Expander for the HP 4155A/4156A is not necessary.