

## S E R V I C E N O T E

SUPERSEDES: NONE

**HP 4155B Semiconductor Parameter Analyzer  
04155-66541/04155-69541 CPU Assembly**

Serial Numbers: 0000A00000/JP10E00144

**SMU controller firmware update to fix SMU glitch problem**

Duplicate Service Notes: 4156B-01

To be Performed by: HP-qualified personnel

**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  $\mu$ A after the measurement.
- Voltage compliance value and output voltage are more than 20 V.

*Continued*

DATE: July 1998

## ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

**MODIFICATION RECOMMENDED**

ACTION CATEGORY:	IMMEDIATELY ON SPECIFIED FAILURE AGREEABLE TIME	STANDARDS:	LABOR 0.5 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: July 2000			
AUTHOR: MO	ENTITY: 3300	ADDITIONAL INFORMATION:			

**Solution/Action:**

Update the SMU controller (SMUC) firmware to 3.03 by using the following procedure:

1. Get the 'disk1.exe' file from the ftp server 'hpyidmk.jpn.hp.com'. (Use the BINARY transfer mode to get the file.)  
  
ftp://hpyidmk.jpn.hp.com/dist/dc\_para/4155B/firmware/SMUC3.03/disk1.exe
2. The 'disk1.exe' file is an MS-DOS self-extracting file. Save the file in a temporary directory and execute the file. 11 files are extracted.
3. Delete the 'disk1.exe' file and save the 11 files to an MS-DOS formatted 1.44 MB diskette.
4. Turn off the HP 4155B/4156B. 5. Insert the diskette into the HP 4155B/4156B and turn on the HP 4155B/4156B.
6. Press the {Yes} primary softkey to start the firmware update.
7. Wait until the update process completes. This takes about six minutes.
8. Remove the diskette and cycle the power.
9. Check the SMUC revision on the [System]→{Config} page. The above procedure updates the SMUC firmware only. (The HOSTC firmware revision need not be changed.)

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