

S E R V I C E N O T E

SUPERSEDES: NONE

**HP 4156B Semiconductor Parameter Analyzer
04155-66541/04155-69541 CPU Assembly**

Serial Numbers: See below.

Firmware update to fix SMU glitch problem

Duplicate Service Notes:

4155B-03 Serial Numbers: 0000A00000/JP10E00215
 JP10E00220/JP10E00224
 4156B-03 Serial Numbers: 0000A00000/JP10E00251
 JP10E00256/JP10E00267

To be Performed by: HP-qualified personnel

Parts Required: No

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: August 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"/> HP LOCATION	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	HP RESPONSIBLE UNTIL: August 2000	
		ADDITIONAL INFORMATION:	

Solution/Action:

Update the SMU controller (SMUC) firmware to 3.05 by using the following procedure:

1. Go to the following location:

`ftp://hpyidmk.jp.hp.com/dist/dc_para/4155B/firmware/Rev02.02/`

2. Save the 'h02_02-s03_05.zip' file to a local temporary directory. (Use the BINARY transfer mode to get the file.)
3. Extract directories and files from the 'h02_02-s03_05.zip' file, which is a 'zip' type compressed file. Four directories (disk1, disk2, disk3, and disk4) are created.

The contents of the four directories are also available on the ftp server:

`ftp://hpyidmk.jp.hp.com/dist/dc_para/4155B/firmware/Rev02.02/DISK1/
DISK2/
DISK3/
DISK4/`

4. Copy the files in each directory to a 3.5-inch disk and label the disk. For example, after you have copied the files in the 'disk1' directory, label it "disk1".
5. Turn off the HP 4155B/4156B.
6. Insert "disk1" into the HP 4155B/4156B and turn on the HP 4155B/4156B.
7. Press the {Yes} primary softkey to start the firmware update.
8. Replace the disks according to the displayed instructions. You use the disks in the following sequence:

`disk1 -> disk 2 -> disk3 -> disk1 -> disk4`

Note that "disk1" is used twice.

9. Wait until the update process completes.
10. Remove the disk and cycle the power.
11. Check the HOSTC and SMUC revisions on the [System]->{Config} page.

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