

4156A-08

S E R V I C E N O T E

SUPERSEDES: NONE

**HP 4156A Precision Semiconductor Parameter Analyzer**

Serial Numbers: JP10A00368 / JP10A00639

04155-66501/04155-69501 CPU Assembly

**Replacing CPU board ROMs to fix firmware defects**

Duplicate Service Notes:

4155A-07 Serial Numbers: JP10A00377 / JP10A00648

4156A-08 Serial Numbers: JP10A00368 / JP10A00639

To be Performed by: HP-qualified personnel

Parts Required:

HP P/N	QTY	Description
04155-65411	1	ROM Upgrade Kit 1.04

*Continued*

DATE: June 1996

**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 1.0 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 checked="" type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	USED PARTS:	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AUTHOR: MO	ENTITY: 3300	HP RESPONSIBLE UNTIL:	
		ADDITIONAL INFORMATION:	

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**Situation:**

The firmware revision 1.04 of the HP 4155A/4156A was released. The firmware 1.04 fixes four defects found in the firmware revision 1.02. It also includes several improvements. This firmware update can be implemented in the installed base.

The ADC ROM revision did not change. (Current revision is 1.00.)

The following are the items fixed by revision 1.04:

- In the part of the model of Printer/Plotter, headers aren't printed correctly by using quarterly print.
- Date cannot sometimes be changed by HP-IB.
- Help information of File Name area of Graph Plot isn't correct.
- In SMU Vpulse Mode, Width sometimes lags 0.1ms.

**Solution/Action:**

Replace the following three ROMs on the 04155-66501/04155-69501 CPU Assembly:

<b>ROM</b>	<b>New Rev (1.04) P/N</b>
HOSTC 1/2	04155-85191
HOSTC 2/2	04155-85192
SMUC	04155-85195

The ROM upgrade kit (04155-65411) contains three new revision ROMs plus manual supplement (04155-90906), which explains the new functions available on the firmware 1.04. The ROMs are identical for the HP 4155A and HP 4156A. For replacement procedure, see "Replacement Procedures" in the HP 4155A/4156A Service Manual (HP P/N 04155-90600). To do this replacement, HP 41501A SMU/PGU Expander for the HP 4155A/4156A is not necessary.