								415	6A-1	1A
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041	55-665	501/041	55-695	01 CI	PU Ass	embly				
Seri	al Numb	oers: 0000	0A00000	/JP10A	01174					
Rep	olacing	CPU b	oard R	OMs to	o fix firı	mware	defects			
Dup	licate Se	ervice No	tes: 4155	5A-10A						
To k	oe Perfoi	rmed by:	HP-qual	ified pe	ersonnel					
Part	ts Requi	red:								
HP	P/N		Descri	ption			Quantity			
0415	55-65431		ROM	Upgrad	e Kit 1.06	5	1			
Situ	ation:									
fixes	s 13 defe	cts found	in the fir	mware						
The	ADC RO	OM revisi	on did no	t chang	e. (Curre	ent revisi	on is 1.00.)			
									Continue	ed
							DATE: Augus	st 1998		
	HP 041 Seri Reg Dup To b Part HP 0415 Situ The fixes impl	HP 4156A 04155-665 Serial Numb Replacing Duplicate Se To be Perfor Parts Requi HP P/N 04155-65431 Situation: The firmward fixes 13 defe implemented	HP 4156A Semic 04155-66501/041 Serial Numbers: 0000 Replacing CPU bo Duplicate Service No To be Performed by: Parts Required: HP P/N 04155-65431 Situation: The firmware revision fixes 13 defects found implemented in the ins	HP 4156A Semiconduct 04155-66501/04155-695 Serial Numbers: 0000A00000 Replacing CPU board RO Duplicate Service Notes: 4155 To be Performed by: HP-qual Parts Required: HP P/N Descrit 04155-65431 ROM T Situation: The firmware revision 1.06 of t fixes 13 defects found in the firminglemented in the installed ba	HP 4156A Semiconductor Pa 04155-66501/04155-69501 Cl Serial Numbers: 0000A00000/JP10A Replacing CPU board ROMs to Duplicate Service Notes: 4155A-10A To be Performed by: HP-qualified per Parts Required: HP P/N Description 04155-65431 ROM Upgrad Situation: The firmware revision 1.06 of the HP 4 fixes 13 defects found in the firmware implemented in the installed base.	HP 4156A Semiconductor Paramete 04155-66501/04155-69501 CPU Ass Serial Numbers: 0000A00000/JP10A01174 Replacing CPU board ROMs to fix firm Duplicate Service Notes: 4155A-10A To be Performed by: HP-qualified personnel Parts Required: HP P/N Description 04155-65431 ROM Upgrade Kit 1.06 Situation: The firmware revision 1.06 of the HP 4155A/41 fixes 13 defects found in the firmware revision 1 implemented in the installed base.	HP 4156A Semiconductor Parameter Ana 04155-66501/04155-69501 CPU Assembly Serial Numbers: 0000A00000/JP10A01174 Replacing CPU board ROMs to fix firmware Duplicate Service Notes: 4155A-10A To be Performed by: HP-qualified personnel Parts Required: HP P/N Description 04155-65431 ROM Upgrade Kit 1.06 Situation: The firmware revision 1.06 of the HP 4155A/4156A was fixes 13 defects found in the firmware revision 1.04/1.05 implemented in the installed base.	SUPERSEDE BUPERSEDE BUPERSEDE BUPERSEDE O4155-66501/04155-69501 CPU Assembly Serial Numbers: 0000A00000/JP10A01174 Replacing CPU board ROMs to fix firmware defects Duplicate Service Notes: 4155A-10A To be Performed by: HP-qualified personnel Parts Required: HP P/N Description Quantity 04155-65431 ROM Upgrade Kit 1.06 1 Situation: The firmware revision 1.06 of the HP 4155A/4156A was released. The fixes 13 defects found in the firmware revision 1.04/1.05. This firmware implemented in the installed base. The ADC ROM revision did not change. (Current revision is 1.00.)	S E R V I C E N O SUPERSEDES: 41564 HP 4156A Semiconductor Parameter Analyzer O4155-66501/04155-69501 CPU Assembly O4155-66501/04155-69501 CPU Assembly Serial Numbers: 0000A00000/JP10A01174 Replacing CPU board ROMs to fix firmware defects Duplicate Service Notes: 4155A-10A To be Performed by: HP-qualified personnel Parts Required: HP P/N Description Quantity 04155-65431 ROM Upgrade Kit 1.06 1 Situation: The firmware revision 1.06 of the HP 4155A/4156A was released. The firmware I fixes 13 defects found in the firmware revision 1.04/1.05. This firmware update calimplemented in the installed base.	SUPERSEDES: 4156A-11 HP 4156A Semiconductor Parameter Analyzer 04155-66501/04155-69501 CPU Assembly Serial Numbers: 0000A00000/JP10A01174 Replacing CPU board ROMs to fix firmware defects Duplicate Service Notes: 4155A-10A To be Performed by: HP-qualified personnel Parts Required: HP P/N Description Quantity 04155-65431 ROM Upgrade Kit 1.06 Stuation: The firmware revision 1.06 of the HP 4155A/4156A was released. The firmware 1.06 fixes 13 defects found in the firmware revision 1.04/1.05. This firmware update can be implemented in the installed base. The ADC ROM revision did not change. (Current revision is 1.00.)

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

MODIFICATION RECOMMENDED

ACTION CATEGORY:	IMMEDIATELY ON SPECIFIED FAILURE AGREEABLE TIME	STANDARDS:	LABOR 1.0 Hot	urs	
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: 3301		ADDITIONAL INFORMATION:			

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The following are the items fixed by revision 1.06:

Knob Sweep Measurements

- Result curve on the screen sometimes lies on the Y axis.
- When using HP SMU, VAR1 50 mA range setting cannot be applied to the actual source output properly.
- Using VMU1/VMU2 in the differential voltage measurement mode sometimes causes improper measurement results.
- When using R-box, measurement setup change causes improper measurement results.
- Unexpected status message is sometimes displayed on the screen.

SCPI Commands

- If the :DISP OFF command and any :PAGE command invalid for the present screen page are entered in this order, the LOCAL softkey sometimes makes the PAGE CONTROL front panel keys void.
- If the :DISP OFF command and :PAGE:GLIS:LIST command are entered in this order, measurement trigger sometimes causes unexpected operation or hang up.
- The fixed screen mode by the :DISP OFF command cannot sometimes be released normally.

Other Defects

- Direct cursor MIN/MAX softkey cannot sometimes work properly.
- In the current pulse sweep measurements with 0 A base value setting, the negative output setting results the output containing offset current.
- In the sampling measurements with simultaneous output sequence, the standby outputs fall to 0 V for the repeated measurements.
- In the thinned-out sampling measurements, improper sampling interval is used for the measurements if the total sampling time is changed from any value to NO LIMIT.
- When an HP-IB peripheral (in power on state) is connected, the external trigger is sometimes not effective and just causes the remote state.

Solution/Action:

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

ROM	New Revision P/N
HOSTC 1/2	04155-85211 (1.06)
HOSTC 2/2	04155-85212 (1.06)
SMUC	04155-85215 (1.08)

The ROM upgrade kit (04155-65431) contains three new revision ROMs plus Firmware Release Note for customer (04155-90907), which explains the items fixed on the firmware 1.06. 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).

Be sure to give the Firmware Release Note and the previous (before the update) firmware revision number information to the customer.

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