

S E R V I C E N O T E

SUPERSEDES: NONE

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

**Serial Numbers:** See below.

**CPU board replacement to prevent startup failures**

**Duplicate Service Notes:**

4155B-05      Serial Numbers: JP10E00240/JP10E00279  
4156B-05      Serial Numbers: JP10E00290/JP10E00331

**To be Performed by:** Agilent-qualified personnel

**Parts Required:** 04155-69541

**Situation:**

The unit does not start up and the following message may be displayed:

INSERT UPDATE MASTER DISK, THEN CYCLE POWER.

*Continued*

DATE: January 1999

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
<b>MODIFICATION RECOMMENDED</b>			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input type="checkbox"/> ON SPECIFIED FAILURE <input checked="" 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"/> SERVICE CENTER	SERVICE INVENTORY:	<input checked="" type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	USED PARTS:	<input checked="" type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AUTHOR: MO	ENTITY: 3300	AGILENT RESPONSIBLE UNTIL: January 2001	
		ADDITIONAL INFORMATION:	

**Solution/Action:**

Replace the CPU board assembly (P/N 04155-69541). Do NOT try to reload the firmware.

The above problem is caused by defective flash ROMs on the CPU board. Therefore, the problem may recur if you reload the firmware.

Flash ROMs that may cause the problem are identified by the revision and date code information on the ROMs. Remove the shield plates of the CPU board and check the information.

AM29F040 ... Good

AM29F040B ... Check the date code ... 9752GBM J (9752 is a date code of the defective lots.)  
The date codes 9804 and later are good.

When an 4155B or 4156B in the above serial number bands is returned to an Agilent service center, check the flash ROM revision and date code. If the flash ROMs are in a defective lot, replace it with a good board (AM29F040, or AM29F040B with date code 9804 or later). If you find a replacement CPU board in a defective lot, do not use it and return it.

Perform this service note in "Agreeable Time" category for the above serial number bands even if the symptom is not observed.