

S E R V I C E N O T E

SUPERSEDES: None

**4156A Precision Semiconductor Parameter Analyzer**

**Serial Numbers:** JP10A00101 / JP10A00240  
or JP10A00242 / JP10A00247

**Power supply module replacement to prevent shut-down failures.**

**Duplicate Service Notes:**

4155A-02  
41501A-01

**To be Performed by:** Agilent-Qualified Personnel

**Parts Required:**

Part No.	Qty.	Description
04155-69003	1	Power Supply Module (for the 4155A/4156A)

*Continued*

DATE: August 1994

**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 0.5 Hour
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: IT	ENTITY: 3301	AGILENT RESPONSIBLE UNTIL: September 1997	
		ADDITIONAL INFORMATION:	

**Situation:**

The 4155A/4156A/41501A units within the listed serial number range, and having a power supply module with an EDC (Engineering Data Code) less than 3424, may have a power supply shut-down problem. This problem shows the following phenomena.

- Units hang up during the power on selftest.
- CAUTION 308: Unknown emergency (SMUC time out) is displayed intermittently during the operation.
- During the operation, power of the units is cycling and all LEDs on the front panel will be flashing.

**Solution/Action:**

Replace a faulty power supply module of the units using an exchange program. Power supply modules with an EDC equal to 3424 or greater have been modified at the factory, and SMO/SME already stocks the modified supply modules as an exchange part.

An EDC is in the form YYWW and is usually found on a white label on the side panel of power supply modules.

Where: YY=YEAR-1960 (Example: If YY=33, the year is 1993)

WW=WEEK (Example: If WW=20, it indicates the 20th week of YY)

Following shows an example of a label that lists an EDC.

04155-60003  
33-3424 << 3424 is the EDC  
00484-3427  
MADE IN JAPAN

If the 4155A/4156A has the 41501A expander, it is required to replace both power supply of the 4155A/4156A and 41501A.