

MODIFICATION RECOMMENDED

**B1500A-05**

**S E R V I C E N O T E**

Supersedes:  
NONE

**B1500A Semiconductor Device Analyzer**

Serial Numbers: **JP10N00101/JP40N00615 (B1500A Mainframe)**  
**JP10N00901/JP10N00911 (B1517A HRSMU module for B1500A)**  
**JP10N00101/JP20M00429 (B1511A MPSMU module for B1500A)**

**Unexpected noise output from HRSMU/MPSUM on specified condition**

**Parts Required:**

P/N	Description	Qty.
B1517-61011	HRSMU module	up to 10
B1511-61011	MPSMU module	up to 10

To be performed by Agilent-Qualified personnel.

**ADMINISTRATIVE INFORMATION**

SERVICE NOTE CLASSIFICATION:			
<b>MODIFICATION RECOMMENDED</b>			
ACTION CATEGORY:	<input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS	LABOR: 2.0 Hours
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER <input type="checkbox"/> CHANNEL PARTNER	SERVICE INVENTORY: <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT	USED PARTS: <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL: 31 <sup>st</sup> Oct. 2010	
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ADDITIONAL INFORMATION:			

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**Situation:**

The B1500A within the listed serial number range may have the problem that the installed MPSPMU/HRSPMU modules generate unexpected noise.

**Solution/Action:****FE/AE:**

Involve the AE (Application Engineer) to confirm if customer's SMU modules generate the unexpected noise with customer's application. If customer has problem SMU modules, send whole mainframe with SMU modules installed to nearest Agilent repair bench.

**SSU Bench Technician:**

Replace the failure SMU module with new PN of one.

After replace the SMU modules, perform the following calibration items.

- Assign the module parts number (See Service Note B1500A-02)
- Calibration for SMU range resistor
- Performance Verification: SMU voltage test, SMU current pre-test, SMU current test, and SMU CMR test

For more detail about Performance Verification, please see Service Guide.