

S E R V I C E N O T E

SUPERSEDES: NONE

4073A Ultra Advanced Parametric Tester

Serial Numbers:

E3101A JP10D00301/JP40D00588
 E3101B JP10D10101
 E3102A JP10G20101/JP20G20316
 E3103A JP10H30101/JP10H30140

Power Fail Occurred after Over Current when Using HPSMU.

Duplicate Service Notes:

E3101A-16A
 E3102A-04A
 E3103A-03A

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

P/N	Description	Quantity
E3132-69091	HPSMU board	up to 2

Continued

DATE: August 2001

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
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 checked="" type="checkbox"/> ON-SITE <input 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: TW	ENTITY: 3300	AGILENT RESPONSIBLE UNTIL: August 2003	
		ADDITIONAL INFORMATION:	



Situation:

This problem may happen when measuring the breakdown voltage by using HPSMU.

The over current occurred, and the following error message is displayed.

FATAL ERROR 7-10002 Over Current or Voltage occurred.

Then after displaying the following error message, the testhead sometimes power fails.

FATAL ERROR 7-10001 Power Fail occurred.

This problem results from oscillation with a certain combination of some measurement devices and HPSMU. Not all of HPSMUs have this problem.

The circuit design improvement fixes this problem.

Solution / Action:

When the above symptom is observed, Agilent CE visits at the customer site and replaces the old HPSMU board (E3132-60001/E3132-69001) with new HPSMU board (E3132-69091).

Note:

This part (E3132-69091) can be used for this service note only.
Do not use this part for the repair purpose.

After replacing the HPSMU board, check the operation and performance of the HPSMU by using the diagnostics and performance verification software.

Necessary parts are supplied from GTLS.

If you have any question, please send your message to "HSTD,SVC-SUPPORT".