

B2901A-03

Modification Recommended Service Note

Supersedes:
NONE

B2901A Precision Source/Measure Unit, 1ch, 100fA resolution, 210V,
3A DC/10.5A pulse

Serial Numbers: All

The Problem – When a repair is made by replacing the SMU board, the maximum sweep point is limited to 2,500 even if it was 100,000 before repair, and the board revision code needs to be changed to have 100,000 sweep points.

Parts Required:

NONE.

ADMINISTRATIVE INFORMATION

ACTION	<input type="checkbox"/> ON SPECIFIED FAILURE	STANDARDS	
CATEGORY:	X AGREEABLE TIME	LABOR:	0.5 Hours
LOCATION	<input type="checkbox"/> CUSTOMER INSTALLABLE	SERVICE:	<input type="checkbox"/> RETURN
CATEGORY:	<input type="checkbox"/> ON-SITE (active On-site contract required)	INVENTORY:	<input type="checkbox"/> SCRAP
	X SERVICE CENTER		X SEE TEXT
	<input type="checkbox"/> CHANNEL PARTNERS		
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL:	PRODUCT'S SUPPORT LIFE
	<input type="checkbox"/> Calibration Required	PRODUCT LINE:	1H
	X Calibration NOT Required	AUTHOR:	HT

ADDITIONAL INFORMATION:

Situation:

The revision code for the replacement SMU board; B2911-65005 is set to “65535” and it sets the sweep points to 2,500. The customer unit may have 100,000 sweep points before repair, so the revision code needs to be changed to “4”, which enables the 100,000 sweep points.

Solution/Action:

Procedure

Step 1: Connect B2901A with the PC and start Keysight Connection Expert.

Step 2: Send the following commands to change the board revision to “4”

(a) :DIAG:CARD1:NVM:MOD "0","0",4

(b) :DIAG:CARD1:NVM:MOD:CRC

Step 3: Cycle Power.

Step 4: Send the following command(s) to confirm the response. (expected response; +100000)

(c) :SOUR1:SWE:POIN? MAX

Revision History:

Date	Service Note Revision	Author	Reason for Change
11 March 2020	01	Hiromasa Tsunemoto	As Published