Modification Recommended Service Note

Supersedes:
NONE

B2901B Precision Source/Measure Unit, 1ch, 100fA resolution, 210V, 3A DC/10.5A pulse

Serial Numbers: See table on the page 2.

The Problem – Distortion occurs in the output waveform when creating a sweep waveform.

Parts Required:
NONE

ADMINISTRATIVE INFORMATION

ACTION CATEGORY:	[[]] ON SPECIFIED FAILURE X AGREEABLE TIME	STANDARDS LABOR: 1.0 Hours		
LOCATION CATEGORY:	X CUSTOMER INSTALLABLE (**No Parts involved**) [[]] SERVICE CENTER [[]] ON-SITE (active On-site contract required) [[]] CHANNEL PARTNERS	SERVICE: [[]] RETURN INVENTORY: [[]] SCRAP [[]] SEE TEXT	USED PARTS:	[[]] RETURN [[]] SCRAP [[]] SEE TEXT
AVAILABILITY: PRODUCT'S SUPPORT LIFE		NO CHARGE AVAILABLE UNTIL: April 30,2025		
	[[]] Calibration Required X Calibration NOT Required	PRODUCT LINE: 1H AUTHOR: HT		

ADDITIONAL INFORMATION:

Situation:

When a sweep waveform is created, the output waveform is distorted, and the expected waveform cannot be output.

Solution/Action:

This has been fixed using the latest FPGA version. Obtain the FPGA Update Software (FpgaUpdate588451.exe) from the Keysight.com website provided below and install it. On the site, you will find instructions that you can follow. Once you start the update, it will finish unattended.

[Keysight B2900B FPGA Update | Keysight](#)

You can check the FPGA revision by following the steps below:

- Press the Front Panel Function key as follows.

    More... > System > More... > Info. > Revision

NOTE: The SMU/FPGA revision is displayed as follows for the channel 1 and 2, respectively. If SMU/FPGA revision is 12.41 or higher, the FPGA update is not needed.

    SMU/FPGA revision (1) : 12.xx
    SMU/FPGA revision (2) : 12.xx

Affected Instruments:

The instruments with the serial numbers listed below are confirmed to be affected:

MY63320102	-	MY63320108
MY63320118	-	MY63320121
MY63320128	-	MY63320158
MY63320160	-	MY63320180
MY63320185	-	MY63320186
MY63320188	-	MY63320193
MY63320196	-	MY63320197

Revision History:

Date	Service Note Revision	Author	Reason for Change
26 Mar 2024	01	HT	As Published