

Modification Recommended Service Note

Supersedes:
NONE

B2902B Precision Source/Measure Unit, 2ch, 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	<input type="checkbox"/> ON SPECIFIED FAILURE	STANDARDS	
CATEGORY:	X AGREEABLE TIME	LABOR:	1.0 Hours
LOCATION	X CUSTOMER INSTALLABLE (No Parts involved)	SERVICE:	<input type="checkbox"/> RETURN
	<input type="checkbox"/> SERVICE CENTER	INVENTORY:	<input type="checkbox"/> SCRAP
CATEGORY:	<input type="checkbox"/> ON-SITE (active On-site contract required)		<input type="checkbox"/> SEE TEXT
	<input type="checkbox"/> CHANNEL PARTNERS	USED	<input type="checkbox"/> RETURN
		PARTS:	<input type="checkbox"/> SCRAP
			<input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL:	April 30,2025
	<input type="checkbox"/> Calibration Required	PRODUCT LINE:	1H
	X Calibration NOT Required	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:

MY63320101 - MY63320107
MY63320109
MY63320113 - MY63320148
MY63320155
MY63320157 - MY63320161
MY63320165 - MY63320212
MY63320215 - MY63320220
MY63320234 - MY63320236
MY63320239 - MY63320240
MY63320242 - MY63320245
MY63320248 - MY63320273
MY63320275 - MY63320294
MY63320296 - MY63320318
MY63320320 - MY63320334
MY63320338
MY63320341 - MY63320341
MY63320343 - MY63320343
MY63320363 - MY63320365

Revision History:

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