

B2901A-01

S E R V I C E N O T E

Supersedes:
NONE

B2901A Precision Source/Measure Unit, 1ch

Serial Numbers: MY51140284 / MY51140508

[Note 1: Not all instruments in this range are affected. Refer to page 3 of this Service Note.]

Factory Pre-shipment Adjustment/Calibration Issue

Parts Required:

NONE

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		
MODIFICATION RECOMMENDED		
ACTION <input type="checkbox"/> ON SPECIFIED FAILURE CATEGORY: X AGREEABLE TIME	STANDARDS LABOR (CALIBRATION): 2.0 Hours	
LOCATION <input type="checkbox"/> CUSTOMER INSTALLABLE CATEGORY: <input type="checkbox"/> ON-SITE (active On-site contract required) X SERVICE CENTER <input type="checkbox"/> CHANNEL PARTNER	SERVICE <input type="checkbox"/> RETURN INVENTORY: <input type="checkbox"/> SCRAP X SEE TEXT	USED <input type="checkbox"/> RETURN PARTS: <input type="checkbox"/> SCRAP X SEE TEXT
AVAILABILITY: PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL: (July 31, 2014)	
X Calibration Required <input type="checkbox"/> Calibration NOT Required	PRODUCT LINE: 1H AUTHOR: HT	
ADDITIONAL INFORMATION:		

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PRINTED IN U.S.A.

June 20, 2013

Rev. 21



Situation:

This Service Note addresses a manufacturing issue that was introduced to the B2901A “Precision Source/Measure Unit, 1ch, 100fA resolution, 210V, 3A DC/10.5A pulse”. The issue was that wrong values for the resistance standard were used for the factory pre-shipment adjustment and the calibration.

Due to this issue, we observed the out of specification at the 1 μ A and 100 nA current ranges and the calibration may fail in these ranges. The errors we observed are up to 0.4% of the range.

Re-adjustment in Agilent Service Center will fix this issue.

So, no parts are needed and no actions needed for the service parts inventory and there will be no used parts by the corrective actions specified by this Service Note.

Solution/Action:

Step 1: Determine whether or not the instrument is affected by this issue.

(NOTE: This can be checked by the customer prior to contacting Agilent.)

- (a) Check to see if the instrument serial number is included in the serial number list in the top page.
- (b) If the serial number is included in the list, then B2901A is at risk of failing and it must be returned to the Agilent Service Center to get re-adjustment and re-calibration.

Step 2: Perform Adjustment and Calibration.

(NOTE: This can only be done at the Agilent Service Center.)

- (a) Perform the adjustment and the calibration.

Affected Instruments in the Serial Number Range MY51140284 / MY51140508

The serial number range on the front page of this Service Note refers to instruments that were newly shipped, but only a subset of these were actually affected by this issue. The instruments listed below are confirmed to be affected:

MY51140284	MY51140393	MY51140415	MY51140442	MY51140464	MY51140486
MY51140358	MY51140394	MY51140416	MY51140443	MY51140465	MY51140487
MY51140359	MY51140395	MY51140417	MY51140444	MY51140466	MY51140488
MY51140360	MY51140396	MY51140418	MY51140445	MY51140467	MY51140489
MY51140362	MY51140397	MY51140419	MY51140446	MY51140468	MY51140490
MY51140363	MY51140398	MY51140420	MY51140447	MY51140469	MY51140491
MY51140364	MY51140399	MY51140421	MY51140448	MY51140470	MY51140492
MY51140366	MY51140400	MY51140422	MY51140449	MY51140471	MY51140493
MY51140378	MY51140401	MY51140426	MY51140450	MY51140472	MY51140494
MY51140380	MY51140402	MY51140427	MY51140451	MY51140473	MY51140495
MY51140381	MY51140403	MY51140428	MY51140452	MY51140474	MY51140497
MY51140382	MY51140404	MY51140429	MY51140453	MY51140475	MY51140498
MY51140383	MY51140405	MY51140430	MY51140454	MY51140476	MY51140499
MY51140384	MY51140406	MY51140433	MY51140455	MY51140477	MY51140500
MY51140385	MY51140407	MY51140434	MY51140456	MY51140478	MY51140501
MY51140386	MY51140408	MY51140435	MY51140457	MY51140479	MY51140502
MY51140387	MY51140409	MY51140436	MY51140458	MY51140480	MY51140503
MY51140388	MY51140410	MY51140437	MY51140459	MY51140481	MY51140505
MY51140389	MY51140411	MY51140438	MY51140460	MY51140482	MY51140506
MY51140390	MY51140412	MY51140439	MY51140461	MY51140483	MY51140507
MY51140391	MY51140413	MY51140440	MY51140462	MY51140484	MY51140508
MY51140392	MY51140414	MY51140441	MY51140463	MY51140485	

Revision History:

Revision Number	Date	Author	Reason For Change
1.0	June 18, 2013	HT	Initial release.