

**B2902A-01**

**S E R V I C E N O T E**

Supersedes:  
NONE

**B2902A Precision Source/Measure Unit, 2ch**

**Serial Numbers: MY51140106 / MY51140743**

[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:		
<b>MODIFICATION RECOMMENDED</b>		
ACTION <input type="checkbox"/> ON SPECIFIED FAILURE CATEGORY: X AGREEABLE TIME	STANDARDS LABOR (CALIBRATION): 2.5 Hours	
LOCATION <input type="checkbox"/> CUSTOMER INSTALLABLE CATEGORY: <input type="checkbox"/> ON-SITE ( <b>active On-site contract required</b> ) 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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**Situation:**

This Service Note addresses a manufacturing issue that was introduced to the B2902A “Precision Source/Measure Unit, 2 ch, 100 fA resolution, 210 V, 3 A DC/10.5 A 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  $\mu$ 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 B2902A 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 MY51140106 / MY51140743

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:

MY51140106	MY51140552	MY51140595	MY51140638	MY51140671	MY51140707
MY51140112	MY51140553	MY51140596	MY51140639	MY51140672	MY51140708
MY51140113	MY51140554	MY51140606	MY51140640	MY51140673	MY51140709
MY51140114	MY51140555	MY51140607	MY51140641	MY51140674	MY51140710
MY51140115	MY51140559	MY51140608	MY51140642	MY51140675	MY51140711
MY51140116	MY51140560	MY51140609	MY51140643	MY51140676	MY51140715
MY51140117	MY51140561	MY51140610	MY51140644	MY51140677	MY51140718
MY51140119	MY51140562	MY51140611	MY51140645	MY51140678	MY51140720
MY51140120	MY51140563	MY51140612	MY51140646	MY51140679	MY51140721
MY51140125	MY51140564	MY51140613	MY51140647	MY51140680	MY51140722
MY51140130	MY51140565	MY51140614	MY51140648	MY51140682	MY51140723
MY51140131	MY51140566	MY51140615	MY51140649	MY51140683	MY51140724
MY51140132	MY51140567	MY51140616	MY51140650	MY51140684	MY51140725
MY51140133	MY51140569	MY51140617	MY51140651	MY51140685	MY51140726
MY51140139	MY51140571	MY51140618	MY51140652	MY51140686	MY51140727
MY51140143	MY51140572	MY51140619	MY51140653	MY51140687	MY51140728
MY51140145	MY51140574	MY51140620	MY51140654	MY51140689	MY51140729
MY51140304	MY51140575	MY51140621	MY51140655	MY51140690	MY51140730
MY51140447	MY51140576	MY51140622	MY51140656	MY51140691	MY51140731
MY51140473	MY51140577	MY51140624	MY51140657	MY51140692	MY51140732
MY51140535	MY51140578	MY51140625	MY51140658	MY51140693	MY51140733
MY51140537	MY51140579	MY51140626	MY51140659	MY51140694	MY51140734
MY51140538	MY51140580	MY51140627	MY51140660	MY51140696	MY51140736
MY51140539	MY51140581	MY51140628	MY51140661	MY51140697	MY51140737
MY51140541	MY51140583	MY51140629	MY51140662	MY51140698	MY51140738
MY51140544	MY51140585	MY51140630	MY51140663	MY51140699	MY51140739
MY51140545	MY51140586	MY51140631	MY51140664	MY51140700	MY51140740
MY51140546	MY51140587	MY51140632	MY51140665	MY51140701	MY51140741
MY51140547	MY51140590	MY51140633	MY51140666	MY51140702	MY51140742
MY51140548	MY51140591	MY51140634	MY51140667	MY51140703	MY51140743
MY51140549	MY51140592	MY51140635	MY51140668	MY51140704	
MY51140550	MY51140593	MY51140636	MY51140669	MY51140705	
MY51140551	MY51140594	MY51140637	MY51140670	MY51140706	

#### Revision History:

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