

U1251B-06

Modification Recommended Service Note

Supersedes:
NONE

U1251B Handheld Digit Multimeter

Serial Numbers: "See Appendix (A)"

The Problem – Capacitance measurement may be out of specification at 100nF range and below.

Parts Required:

P/N Description Qty.

Pomona 2BC-36 double banana plug both ends cable assembly

ADMINISTRATIVE INFORMATION

ACTION	<input checked="" type="checkbox"/> ON SPECIFIED FAILURE	STANDARDS		
CATEGORY:	<input type="checkbox"/> AGREEABLE TIME	LABOR:	0.1 Hours	
LOCATION	<input checked="" type="checkbox"/> CUSTOMER INSTALLABLE	SERVICE:	<input type="checkbox"/> RETURN	
CATEGORY:	<input type="checkbox"/> ON-SITE <i>(active On-site contract required)</i>	INVENTORY:	<input type="checkbox"/> SCRAP	
	<input type="checkbox"/> SERVICE CENTER		USED	<input type="checkbox"/> RETURN
	<input type="checkbox"/> CHANNEL PARTNERS		PARTS:	<input type="checkbox"/> SCRAP
				<input checked="" type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL:	20 April 2017	
	<input type="checkbox"/> Calibration Required	PRODUCT LINE:	WC	
	<input checked="" type="checkbox"/> Calibration NOT Required	AUTHOR:	SJ	

ADDITIONAL INFORMATION:

Situation:

U1251B within the serial number range may not meet the specification for capacitance measurement in 100nF range and below. This is due to improper open adjustment performed at factory which the cable has been used to perform the open adjustment, has caused a negative offset stored in the multimeter's memory.

Solution/Action:

To verify whether the multimeter is impacted with capacitance measurement in 100nF range and below:

1. Turn the knob to the Capacitance measurement position.
2. Manual set the range to 10 nF range.
3. Plug in one end of the Pomona 2BC-36 cable assembly across the capacitance measurement terminal, leave the other end of the cable assembly open.
4. The U1251B should read between 0.8nF to 1.1nF, otherwise the "Open" calibration adjustment was performed incorrectly.

To correct the multimeter capacitance measurement in 100nF range and below:

5. Unplug any cable from the multimeter's terminal.
6. By referring to the service guide procedure, (<http://literature.cdn.keysight.com/litweb/pdf/U1251-90036.pdf>), unsecure the meter to enter into the calibration adjustment mode.
7. Turn the knob to the Capacitance measurement position.
8. Perform **ONLY** the "Open" adjustment in Capacitance measurement without any cable connected to the multimeter.
9. Exit calibration adjustment mode after the "Open" adjustment is done.
10. Verify the "Open" adjustment has been performed correctly by repeating step 1 to step 4.

Customers who have purchased the U1251B Multimeter within the serial number range stated in this service note will receive a complementary Pomona 2BC-36 cable assembly. Each customer is entitled to one free Pomona 2BC-36 cable assembly.

To request a free Pomona 2BC-36 cable assembly, please click [HERE](http://www.keysight.com/find/pomona2BCcablerequest) (<http://www.keysight.com/find/pomona2BCcablerequest>) and provide the following information on the web form:

1. Instrument Model Number
2. Serial Number
3. Name of distributor who sold this unit
4. Date of purchase
5. Delivery details:

- Receiver's Name
- Receiver's Address
- Receiver's Telephone number

Keysight will arrange for the shipment of the free Pomona 2BC-36 cable assembly to the customer.

Revision History:

Date	Service Note Revision	Author	Reason for Change
20 April 2016	01	SJ	As Published

Appendix (A):

MY54040020	MY54120105	MY54300038	MY54400012
MY54040047	MY54120113	MY54300039	MY54400018
MY54050005	MY54130129	MY54300045	MY54400023
MY54050065	MY54130135	MY54320012	MY54400024
MY54080005	MY54130166	MY54320033	MY54400025
MY54080018	MY54130169	MY54320040	
MY54080068	MY54270015	MY54320044	
MY54100004	MY54300015	MY54320050	
MY54100028	MY54300019	MY54320051	
MY54120102	MY54300035	MY54370004	