

U1252B-06

Modification Recommended Service Note

Supersedes:
NONE

U1252B 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 (active On-site contract required)	INVENTORY:	<input type="checkbox"/> SCRAP
	<input type="checkbox"/> SERVICE CENTER		<input type="checkbox"/> SCRAP
	<input type="checkbox"/> CHANNEL PARTNERS		<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:

U1252B 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 U1252B 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 U1252B 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>) 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 2017	01	SJ	As Published

Appendix (A):

MY53480020	MY54060010	MY54150041	MY54220298	MY54250189	MY54370052	MY54380017
MY53480025	MY54070013	MY54170040	MY54220337	MY54250230	MY54370054	MY54380018
MY53510009	MY54070017	MY54170102	MY54220343	MY54250252	MY54370074	MY54380020
MY53510124	MY54080005	MY54170111	MY54220364	MY54250260	MY54370098	MY54380023
MY53520204	MY54090002	MY54170156	MY54230002	MY54260090	MY54370100	MY54380031
MY53520209	MY54090007	MY54190002	MY54240004	MY54260103	MY54370108	MY54380054
MY53520214	MY54110066	MY54200068	MY54240008	MY54260113	MY54370114	MY54380066
MY53520225	MY54120062	MY54200069	MY54240019	MY54270137	MY54370121	MY54380106
MY53520227	MY54120092	MY54200072	MY54240037	MY54270301	MY54370138	
MY53520229	MY54120162	MY54220108	MY54240050	MY54280048	MY54370139	
MY53520238	MY54120199	MY54220109	MY54250005	MY54320004	MY54370144	
MY53520246	MY54120244	MY54220112	MY54250014	MY54320103	MY54370145	
MY53520247	MY54120246	MY54220119	MY54250017	MY54320120	MY54370150	
MY53520249	MY54120273	MY54220132	MY54250043	MY54320143	MY54370152	
MY54050011	MY54130079	MY54220150	MY54250089	MY54320147	MY54370165	
MY54050016	MY54130182	MY54220152	MY54250100	MY54330085	MY54370173	
MY54050023	MY54130268	MY54220156	MY54250119	MY54370008	MY54370174	
MY54050024	MY54150015	MY54220244	MY54250146	MY54370039	MY54370176	
MY54050034	MY54150028	MY54220258	MY54250173	MY54370046	MY54380010	
MY54050035	MY54150040	MY54220271	MY54250183	MY54370047	MY54380015	