

U1252A-07

# Modification Recommended Service Note

Supersedes:  
NONE

## U1252A 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:**

U1252A 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 U1252A 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/U1251-90003.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 U1252A 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 2016	01	SJ	As Published

Appendix (A):

SG54090111	SG54150273	SG54300031	SG54360070	SG54360136	SG54360267
SG54090153	SG54160032	SG54300033	SG54360072	SG54360137	SG54360306
SG54110017	SG54160083	SG54300046	SG54360077	SG54360138	SG54360332
SG54110055	SG54160169	SG54300050	SG54360080	SG54360142	SG54360333
SG54110098	SG54160176	SG54350021	SG54360081	SG54360148	SG54360335
SG54110104	SG54160189	SG54350027	SG54360084	SG54360149	SG54380052
SG54140028	SG54160226	SG54350032	SG54360087	SG54360152	
SG54140082	SG54160253	SG54350039	SG54360089	SG54360158	
SG54140092	SG54160260	SG54350042	SG54360096	SG54360167	
SG54140115	SG54280336	SG54360008	SG54360102	SG54360173	
SG54140130	SG54280364	SG54360012	SG54360106	SG54360176	
SG54140157	SG54290020	SG54360035	SG54360108	SG54360185	
SG54150002	SG54290027	SG54360050	SG54360112	SG54360197	
SG54150013	SG54290028	SG54360051	SG54360114	SG54360198	
SG54150031	SG54290038	SG54360055	SG54360119	SG54360200	
SG54150144	SG54290043	SG54360057	SG54360128	SG54360204	
SG54150148	SG54290054	SG54360065	SG54360130	SG54360238	
SG54150201	SG54300012	SG54360066	SG54360131	SG54360239	
SG54150233	SG54300018	SG54360067	SG54360134	SG54360248	
SG54150246	SG54300026	SG54360069	SG54360135	SG54360265	