

66321D-08A

# Modification Recommended Service Note

Supersedes:  
66321D-08

## 66321D - MOBILE COMMUNICATION DC SOURCE, 15V/3A WITH BATTERY EMULATION, DVM

Serial Numbers: MY43005670 – MY43005770, MY52000253 – MY52000405, SG43005670 – SG43005770

The unit can exhibit power-on self-test errors, auto reboot, blank display, no output, and communication errors.

### Parts Required:

| P/N       | Description                            | Qty. |
|-----------|--|------|
| 1400-3203 | Cable Tie .062-1.25-DIA .14-Wide Nylon | 1    |

### ADMINISTRATIVE INFORMATION

|               |   |                                   |                                   |         |
|---------------|---|-----------------------------------|-----------------------------------|---------|
| ACTION        | x ON SPECIFIED FAILURE                        | STANDARDS                         |                                   |         |
| CATEGORY:     | x AGREEABLE TIME                              | LABOR:                            | 1.5 Hours                         |         |
| LOCATION      | <input type="checkbox"/> CUSTOMER INSTALLABLE | SERVICE:                          | <input type="checkbox"/> RETURN   |         |
| CATEGORY:     | x ON-SITE (active On-site contract required)  | USED                              | <input type="checkbox"/> RETURN   |         |
|               | x SERVICE CENTER                              | INVENTORY:                        | <input type="checkbox"/> SCRAP    |         |
|               | <input type="checkbox"/> CHANNEL PARTNERS     | <input type="checkbox"/> SEE TEXT | PARTS:                            | x SCRAP |
|               |   |                                   | <input type="checkbox"/> SEE TEXT |         |
| AVAILABILITY: | PRODUCT'S SUPPORT LIFE                        | NO CHARGE AVAILABLE UNTIL:        | EOS                               |         |
|               | <input type="checkbox"/> Calibration Required | PRODUCT LINE:                     | SP                                |         |
|               | x Calibration NOT Required                    | AUTHOR:                           | MJC                               |         |

### ADDITIONAL INFORMATION:

**Situation:**

Poor crimping of the connectors on a bias cable can cause intermittent communication issues.

A 5 V bias is required by the A2 Interface PCA. There is a cable with a connector that plugs into circuit reference J206 on the A2 PCA that brings that voltage in. The connector on this cable is the issue.

The instrument will exhibit the behavior when the bias voltage drops out of tolerance. Due to improper crimping.

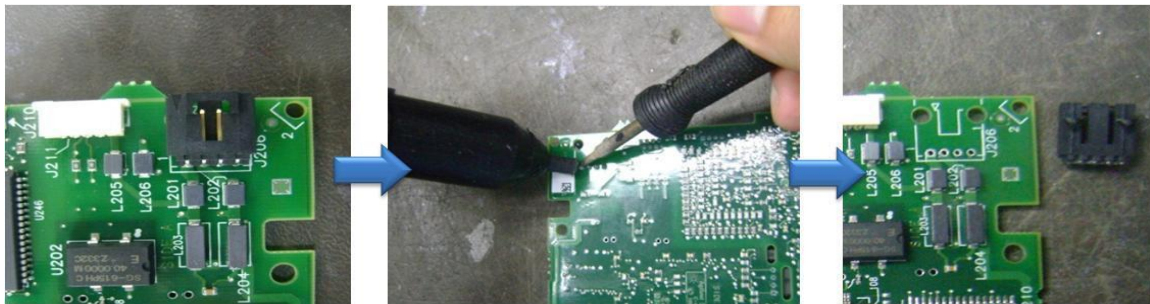
**Solution/Action:**

The solution is to solder the bias cable wires directly to the A2 Interface PCA.

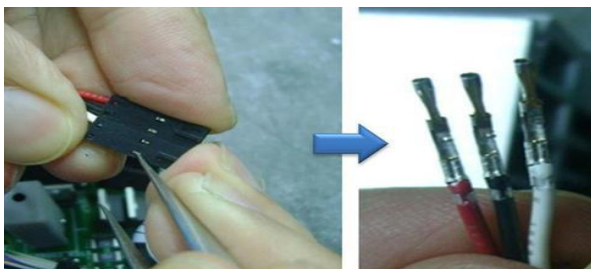
To begin, follow the disassembly procedures to remove the A2 Interface PCA in the service manual located at: <http://literature.cdn.keysight.com/litweb/pdf/5964-8176.pdf>. Note that these procedures should be done in an ESD (Electro Static Discharge) safe area.

Once the A2 Interface PCA is removed:

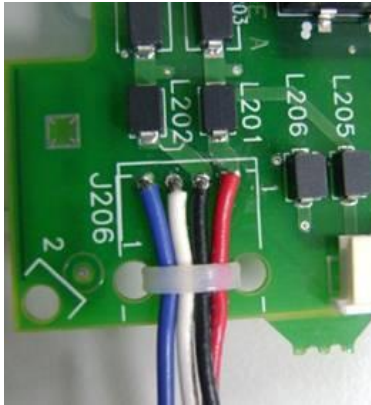
1. Remove the connector at reference J206 (Keysight part number 1252-3695) from the PCA. All 4 pins from the connector must be de-soldered. The photo below illustrates the process:



2. Remove the wires from the housing that mated with the connector at J206.



3. Cut the wires directly below the crimp and strip off some of the insulation (roughly 5 mm).
4. Solder the wires directly to the PCA where the connector was installed. Some 663xx models have three wires (red, black, and white) and some have four wires (red, black, white, and blue). A nylon cable tie is required to support the wires after the modification has been completed. Refer to the photo below for the proper wire order:



5. Reassemble and verify the unit.

**Revision History:**

| Date        | Service Note Revision | Author | Reason for Change        |
|-------------|-----------------------|--------|--------------------------|
| 23 Feb 2012 | 01                    | CP     | As Published             |
| 15 Dec 2015 | 02                    | MC     | Added new serial numbers |
|             |                       |        |                          |
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