

N8736A-05

# Modification Recommended Service Note

Supersedes:  
NONE

## N8736A – DC System Power Supply, 40V, 85A, 3.4kW

Serial Numbers: US14G00001-US99999999 (shipments began ~ June/July 2014)

All “B” prefixed firmware versions prior to B.00.07 need to be updated to B.00.07 (8/5/2015), or later. This update addresses a recently discovered quality issue which is not related to the safety of the user or the product. Under certain specific/unique conditions, the product *may not* turn-on to Factory Default values as indicated in the User’s Guide.

A formal Keysight “Quality Issue Notification” has been mailed to all individual customers of record, whose instruments might contain early, “B” version firmware. The User’s Guide now includes an appropriate CAUTION statement for this unique corner condition.

### ADMINISTRATIVE INFORMATION

|                                               |                                               |                                               |                                       |
|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|---------------------------------------|
| ACTION                                        |                                               | STANDARDS                                     |                                       |
| CATEGORY:                                     | <input type="checkbox"/> ON SPECIFIED FAILURE |                                               |                                       |
|                                               | X AGREEABLE TIME                              | LABOR: 0.25 Hours                             |                                       |
| LOCATION<br>CATEGORY:                         | X CUSTOMER INSTALLABLE                        | SERVICE<br>INVENTORY:                         | USED <input type="checkbox"/> RETURN  |
|                                               | X ON-SITE (active On-site contract required)  |                                               | PARTS: <input type="checkbox"/> SCRAP |
|                                               | X SERVICE CENTER                              |                                               | <input type="checkbox"/> SEE TEXT     |
|                                               | X CHANNEL PARTNERS                            |                                               | <input type="checkbox"/> SEE TEXT     |
| AVAILABILITY: PRODUCT’S SUPPORT LIFE          |                                               | NO CHARGE AVAILABLE UNTIL: <b>Oct 1, 2016</b> |                                       |
| <input type="checkbox"/> Calibration Required |                                               | PRODUCT LINE: SP                              |                                       |
| X Calibration NOT Required                    |                                               | AUTHOR: P.F.                                  |                                       |

ADDITIONAL INFORMATION:

**Parts Required:**  
**NONE**

The required B.00.07 version Firmware and Installation Utility are both available from the Web @ <http://www.keysight.com/find/n5700firmware>

**Situation:**

ONLY in the Safe-Start turn-on mode; after initial AC turn-on *and immediately* following boot-up completion, a short duration (~3.5 seconds) time-exposure window begins. Within this window, if the [OUT ON] Key is struck; the described quality issue *could* become realized.

IF the described conditions have been set in motion, in the order and timeframe described, the DC output voltage *could* assume a level other than zero for the remainder of the exposure window. This quality issue can only occur once, during a single AC turn-on user session.

IF the [OUT ON] Key is struck, any time after the close of the exposure window, product behavior will be as described in the User's Guide (i.e., factory default, "\*RST" conditions, output voltage zero).

**Solution/Action:**

Visually, instruments with scrolling "8's" during boot-up are potential candidates for this firmware update. "\*IDN?" should be used to confirm the actual requirement for this update. Instruments that boot-up with "IEEE" will not demonstrate this quality issue.

Update firmware, as required, from Web site <http://www.keysight.com/find/n5700firmware>. This web site contains BOTH the necessary firmware and a utility which will determine the existing firmware version and provide/install the required update, as necessary.

A "CAUTION" note regarding this behavior has been added to the Keysight Series N8700 User's Guide (N8700-90001), on the appropriate pages.

**Revision History:**

| Date        | Service Note Revision | Author | Reason for Change |
|-------------|-----------------------|--------|-------------------|
| 09 Oct 2015 | 01                    | JOC/PF | As Published      |
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