

SAFETY – IMPLEMENTED DURING NORMAL COURSE  
OF PROVIDING SUPPORT

**N6705A-05B-S**

# **S E R V I C E N O T E**

Supersedes:  
N6705A-05A-S

## N6705A DC Power Analyzer

Serial Numbers: MY47000603, MY47000608, MY47000610-11, MY47000613-622, MY47000624-30, MY47000635, MY47000639, MY47000641, MY47000649-50, MY47000652-54, MY4700056, MY47000658-59, MY47000662, MY47000666-67, MY47000669, SG47000135

### POSSIBLE SHOCK HAZARD

**WARNING**

**HAZARD CLASS 2**

The safety ground connectors for specific serial numbers need to be verified for proper installation.

#### Parts Required:

| P/N | Description | Qty. |
|-----|-------------|------|
|-----|-------------|------|

NONE

### ADMINISTRATIVE INFORMATION

|   |  |   |
|---|--|---|
| SERVICE NOTE CLASSIFICATION:  |  |   |
| <b>SAFETY</b>   |  |   |
| ACTION CATEGORY: <input type="checkbox"/> ON SPECIFIED FAILURE<br><input checked="" type="checkbox"/> AGREEABLE TIME  | STANDARDS  | LABOR: 0.6 Hours  |
| LOCATION CATEGORY: <input checked="" type="checkbox"/> CUSTOMER INSTALLABLE<br><input type="checkbox"/> ON-SITE<br><input checked="" type="checkbox"/> SERVICE CENTER<br><input type="checkbox"/> CHANNEL PARTNER | SERVICE <input type="checkbox"/> RETURN<br>INVENTORY: <input type="checkbox"/> SCRAP<br><input checked="" type="checkbox"/> SEE TEXT | USED PARTS: <input type="checkbox"/> RETURN<br><input type="checkbox"/> SCRAP<br><input checked="" type="checkbox"/> SEE TEXT |
| AVAILABILITY: End of Support  | NO CHARGE AVAILABLE UNTIL: End of Support  |   |
| AUTHOR: WIU   | PRODUCT LINE: SP   |   |
| ADDITIONAL INFORMATION:   |  |   |

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**Situation:**

The safety ground connectors in the AC Input Filter Module (P/N 9135-5209) for specific serial numbers need to be verified for proper installation. When not properly connected half the line voltage will be present on the chassis to ground as well as on the outputs. This poses a shock hazard from a capacitive discharge and not directly from the line voltage.

Connect the chassis ground binding post, which is located on the front panel, to earth ground. This will ensure safe operation of the unit, until you can schedule a verification time with Agilent.

**Figure 1.** Location of chassis ground binding post



**Affected N6705A Serial Numbers:**

|            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|
| MY47000603 | MY47000616 | MY47000622 | MY47000629 | MY47000650 | MY47000659 |
| MY47000608 | MY47000617 | MY47000624 | MY47000630 | MY47000652 | MY47000662 |
| MY47000610 | MY47000618 | MY47000625 | MY47000635 | MY47000653 | MY47000666 |
| MY47000611 | MY47000619 | MY47000626 | MY47000639 | MY47000654 | MY47000667 |
| MY47000613 | MY47000620 | MY47000627 | MY47000641 | MY47000656 | MY47000669 |
| MY47000614 | MY47000621 | MY47000628 | MY47000649 | MY47000658 | SG47000135 |
| MY47000615 |            |            |            |            |            |

**Solution/Action:**

The hex nut, which secures the safety ground to the AC Input Filter Module (P/N 9135-5209) needs to be verified to have been installed with 9 inch-lbs.

**Testing Note**

After the update has been completed turn on the unit and allow the instrument to complete self-test.

This update will not affect the calibrating or performance specifications.

Also notify the N6705A Support Engineer the serial number that was verified at

[plsp-power\\_prod\\_support@agilent.com](mailto:plsp-power_prod_support@agilent.com).

**Electrostatic Discharge (ESD) Precautions**

Electrical components can be damaged by electrostatic discharge (ESD) during handling. Component damage can occur at electrostatic discharge voltages as low as 50 volts. The following guidelines will help prevent ESD damage when servicing the instrument or any electronic device.

- Disassemble instruments *only* in a static-free work area.
- Use a conductive work area to reduce static charges.
- Use a conductive wrist strap to reduce static accumulation.
- Minimize handling.
- Keep replacement parts in original static-free packaging.
- Remove all plastic, foam, vinyl, paper, and other static-generating materials from the immediate work area.

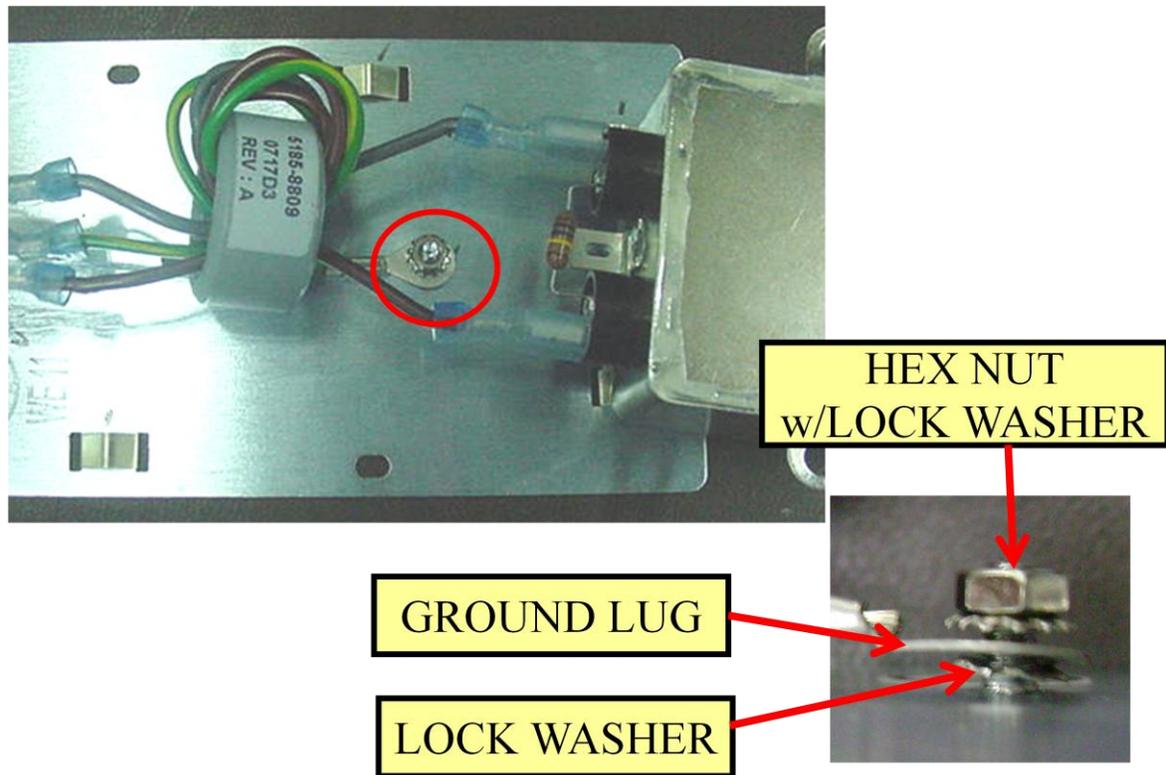


Disconnect the AC input to the instrument before doing this verification

### Disassembly

Follow the instructions on page 55 of the N6705A Service Manual to remove the AC Input Filter Module (P/N 9135-5209).

**Figure 2.** Demonstration of properly installed safety ground connector



#### Part List:

|                            |                |
|----------------------------|----------------|
| Lock Washer 1X             | P/N: 2190-0644 |
| M3 Hex Nut w/lockwasher 1X | P/N: 0535-0031 |

### Description

1. Secure Green/Yellow wire of the AC Input Cable to the Shroud Top using a M3 Hex Nut w/ Lock Washer (P/N 0535-0031).

**Note : Ensure hardware is installed in the following sequence. Lock Washer – Ground Lug – Hex Nut**

2. Torque to 9 inch-lbs.

### Reassembly

Make sure that all other cables are fully inserted before reassembly. Follow the instructions on page 55-56 of the N6705A Service Manual to install the AC Input Filter Module (P/N 9135-5209).