

MODIFICATION RECOMMENDED –
CORRECTS MANUFACTURING OR DESIGN DEFECTS

6671A-08A

S E R V I C E N O T E

Supersedes:
6671A-08

6671A DC POWER SUPPLY GPIB CONTROLLED

**Serial Numbers: US366400345/US365400554 MY41000101/MY41000681 &
SG41000101/SG41000263**

The Current Shunt (Circuit Reference “R907”) may have intermittent sense wires, which may cause instability of Current regulation, Current read back and Current programming.

To Be Performed By: Agilent-Qualified Personnel or Customer

Parts Required:

P/N	Description	Qty.
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NONE

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	LABOR: 2.0 Hours
LOCATION CATEGORY:	<input checked="" type="checkbox"/> CUSTOMER INSTALLABLE <input checked="" type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	SERVICE INVENTORY:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	USED PARTS:	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AUTHOR: CP	PRODUCT LINE: 33	AGILENT RESPONSIBLE UNTIL: &/24/2006	
ADDITIONAL INFORMATION:			

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October 17, 2003

Situation:

When the push-on connectors become intermittent the output current will become unstable. Loose push-on connectors can cause the output current to change dramatically. The current can change from any set current, and may go to the maximum rated output current of the instrument.

When the upgrade has been completed, Perform Performance verification tests as per the Service manual. Calibration is only required if the instrument does not meet it's published Performance Specifications.

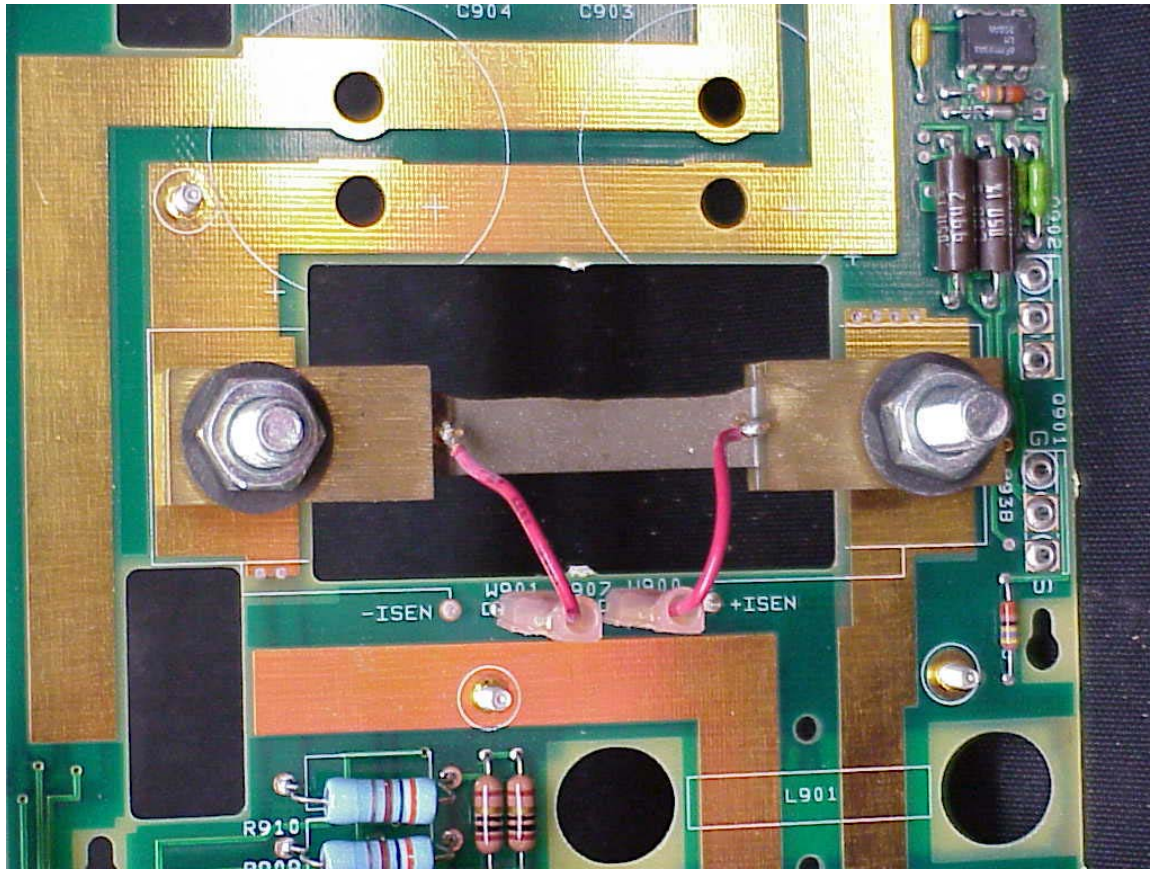
It is recommended as best practice, if an instrument is repaired or upgraded Performance verification testing be done.

Solution/Action:

A6 Output Assembly for Models (65/6671A, 65/6672A)

This picture shows how the Shunt R907 is connected using the term-crimp connectors.

The Shunt R907 is connected to "W900" & "W901"

**NOTE**

After the Agilent Responsible time has ended as described above. If there is an instrument that has this defect and the instrument has a serial number described above the instrument should be upgraded as per this service note.

Cut the terminal-crimp connectors off of both wires and discard the connectors. Make this cut as close to the terminal-crimp connector as possible. The required strip length should be 5mm. This strip length will be used to prevent the wire length being too long and shorting to the instrument chassis. If replacement of this wire is required any color (22 AWG, 300V 105C) wire type can be used.

This modification can be done from the top of the board. Carefully strip and solder the wires, and avoid burning the wire insulation and the printed circuit board.

The wires should be connected as shown below. The two holes marked -ISEN & +ISEN should be used. Do not cross the wires when making this modification. See picture below for details. This picture shows the required modification.

