MODIFICATION RECOMMENDED –
CORRECTS MANUFACTURING OR DESIGN DEFECTS

6573A-05A

S E R V I C E N O T E

Supersedes:
6573A-05

6573A DC POWER SUPPLY MANUALLY CONTROLLED

Serial Numbers: US36330351/US36330551 & MY41000101/MY41000375

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.
NONE		

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION: **MODIFICATION RECOMMENDED**			
ACTION CATEGORY:	[[]] IMMEDIATELY X ON SPECIFIED FAILURE [[]] AGREEABLE TIME	STANDARDS: LABOR: 2.0 Hours	
LOCATION CATEGORY:	X CUSTOMER INSTALLABLE x ON-SITE X SERVICE CENTER	SERVICE INVENTORY: [[]] RETURN [[]] SCRAP [[]] SEE TEXT	USED PARTS: [[]] RETURN X SCRAP [[]] SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: 7/24/2006	
AUTHOR: cp	PRODUCT LINE: 33		
ADDITIONAL INFORMATION:			

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Situation:

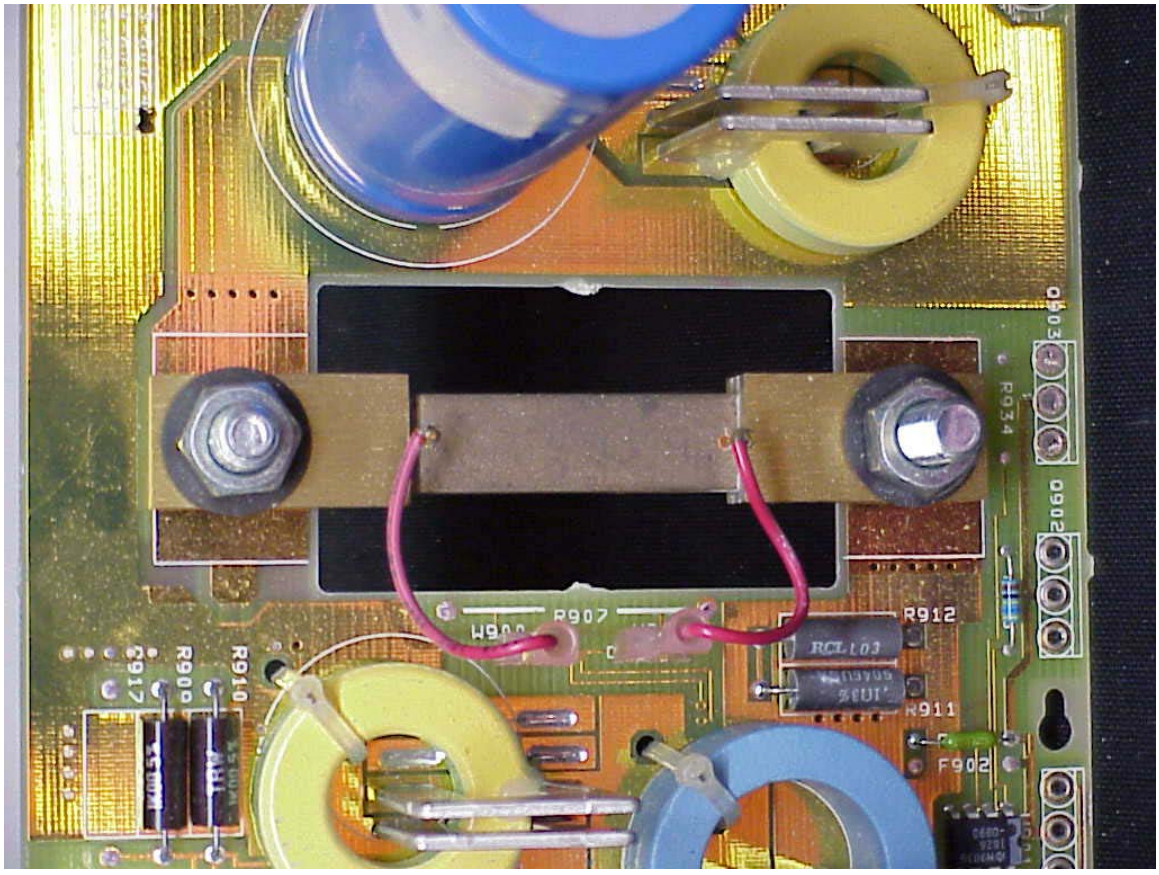
When the push-on connectors become intermittent the output current will become unstable. Loose push-on connectors can cause the output current to change dramatically. The current can change from any set current, and may go to the maximum rated output current of the instrument.

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 (65/6673A, 74A, 75A & E4356A)
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. There are two holes marked R907 that should be used. Do not cross the wires when making this modification. See picture below for details. This picture shows the required modification.