

MODIFICATION RECOMMENDED –  
CORRECTS MANUFACTURING OR DESIGN DEFECTS

**E3649A-01**

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

Supersedes:  
NONE

**E3649A Dual Output Programmable DC Power Supply**

**Serial Numbers: MY00000000/MY00000000**

**The Capacitors used in the circuit reference (C107, C108, C173 & C174) has been found to have cold solder connections.**

**To Be Performed By: Agilent-Qualified Personnel or Customer**

**Parts Required:**

<b>P/N</b>	<b>Description</b>	<b>Qty.</b>
None		

**ADMINISTRATIVE INFORMATION**

SERVICE NOTE CLASSIFICATION:			
<b>MODIFICATION RECOMMENDED</b>			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	LABOR: 1.0 Hours
LOCATION CATEGORY:	<input checked="" type="checkbox"/> CUSTOMER INSTALLABLE ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	SERVICE INVENTORY: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT	USED PARTS: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL:	
AUTHOR: cp	PRODUCT LINE: 33		
ADDITIONAL INFORMATION:			

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April 6, 2004

**Situation:**

It has been determined that one or more of the capacitors loaded into one or more of the circuit locations described, may become intermittent due to poorly soldered leads. The contract manufacturer soldering the parts that are loaded in one or more of the following circuit locations (C107, C108, C173, C174) had a process problem.

The models E3646A, E3647A, E3648A & E3649A all use the same printed circuit board P/N 5022-4237. When these models are manufactured different capacitors will be loaded depending on the model. There will be two parts loaded in any combination of the following circuit references (C107, C108, C173, C174). These parts can be found in side of the instrument near the rear output connectors. The part that is loaded is model dependent. It is recommended that all of these parts be inspected, and resoldered if required.

**Solution/Action:**

It is recommended that all of the SPO/GTLS world wide inventory be inspected. It may be difficult to determine if the solder joint is good. So it is recommended that any part loaded into the circuit references described above be resoldered. The printed circuit board has very heavy traces. It is recommended that a 100watt iron be used to do this rework. Care should be taken when this rework is done. It is important not to apply too much heat. Too much heat may result in damage to the printed circuit board.

After the part is resoldered the instrument should be turned on and checked. There is NO Calibration required.

## Duplicate Service Notes

E3646A-01

E3647A-01

E3648A-01

E3649A-01