

MODIFICATION RECOMMENDED –  
CORRECTS MANUFACTURING OR DESIGN DEFECTS

**4349B-05**

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

Supersedes:  
NONE

## 4349B 4-Channel High Resistance Meter

**Serial Numbers: MY43101505 through MY43102269**

### **Remedy for OVLD display due to incomplete soldering of capacitor on A1 board**

This service note provides the information on OVLD display and other failure symptoms, which may be caused by defective soldering of a capacitor on A1 board, and the repair procedure to remedy the 4349B that exhibits these symptoms.

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

#### **Parts Required:**

<b>Part-Number</b>	<b>Description</b>	<b>Qty</b>
<b>04349-66511</b>	<b>A1 Board Assembly (4-channel input)</b>	<b>1</b>
<b>or</b>		
<b>04349-66521</b>	<b>A1 Board Assembly (2-channel input) for Option 001 only</b>	<b>1</b>

## 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 type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	SERVICE INVENTORY: <input checked="" type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT	USED PARTS: <input checked="" type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: September 30, 2008	
AUTHOR: HH	PRODUCT LINE: WN		
ADDITIONAL INFORMATION:			

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**Situation:**

The 4349B with the specified serial numbers may exhibit OVLD display or much lower resistance measurement value than real resistance of the DUT (or much larger measurement current value than real DC input current).

These 4349B units have possibility that one or some of 0.1  $\mu\text{F}$  capacitors C103, C203, C303 and C403 on the A1 board assembly is not firmly soldered to a multi-terminal on the board. If the capacitor lead is not completely soldered, the integrator at input stage malfunctions.

**Solution/Action:**

When the 4349B exhibits the aforementioned symptom, check the capacitors C103, C203, C303 and C403 on the A1 board for defective soldering. Try to pull up the capacitor located in the faulty measurement channel. If the capacitor lead is pulled out or not firmly soldered, replace the A1 board with new one.

(See Figure 1 for an example of capacitor, which was easily pulled out with this check.)

Note: Re-soldering the capacitor should be avoided because the capacitor lead may not be easily soldered. In some cases, the length of capacitor lead may be too short.

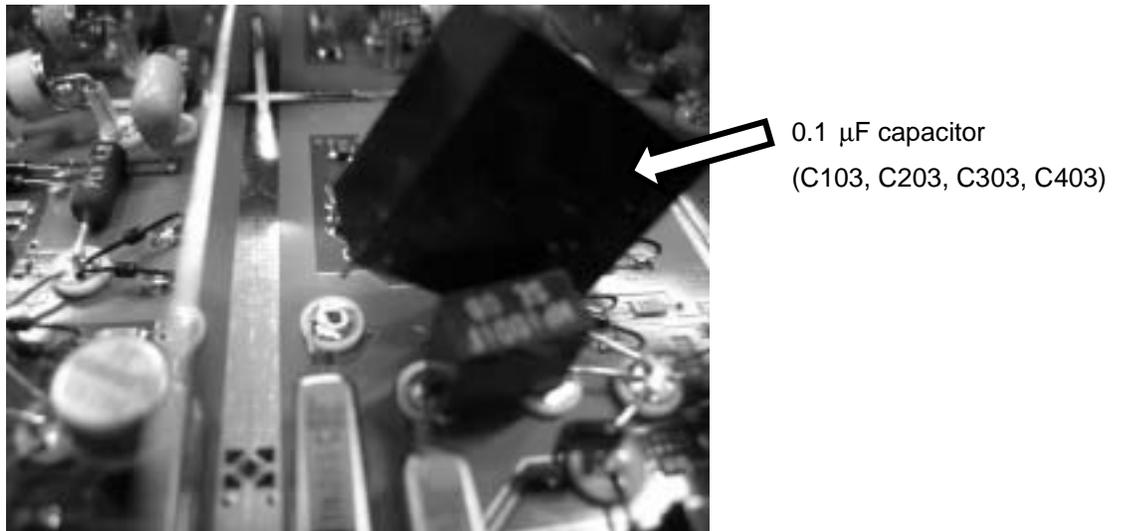


Figure 1. Example of capacitor which was easily pulled out with the check.