

MODIFICATION RECOMMENDED –
CORRECTS MANUFACTURING OR DESIGN DEFECTS

3458A-06A

S E R V I C E N O T E

Supersedes:
3458A-06

3458A Multimeter

Serial Numbers: 0000A00000 / 2323A06050 (applies to A2 assemblies with ERC < 3108)

Note: The ERC (Engineering Revision Code) is printed on a label attached to the PCA.

Modification to Fix Hardware Error, “ac offset dac 10mV invalid cal value: 184”

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

Parts Required:

P/N	Description	Qty.
0757-0466	110 KOhm Resistor	1

Situation:

Sufficient charge can be injected into the main amplifier from C208 during an ACAL AC procedure to result in a hardware error: “ac offset dac 10mV invalid cal value: 184”. The injected charge from C208 creates an offset during the auto-calibration of the ac offset dac. This offset plus the circuit offset is large enough in some instruments that an “invalid cal value is generated”.

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: 0.5 Hours	
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input 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	USED PARTS: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: 31 March 1993	
AUTHOR: DLL PRODUCT LINE: 09E			
ADDITIONAL INFORMATION:			

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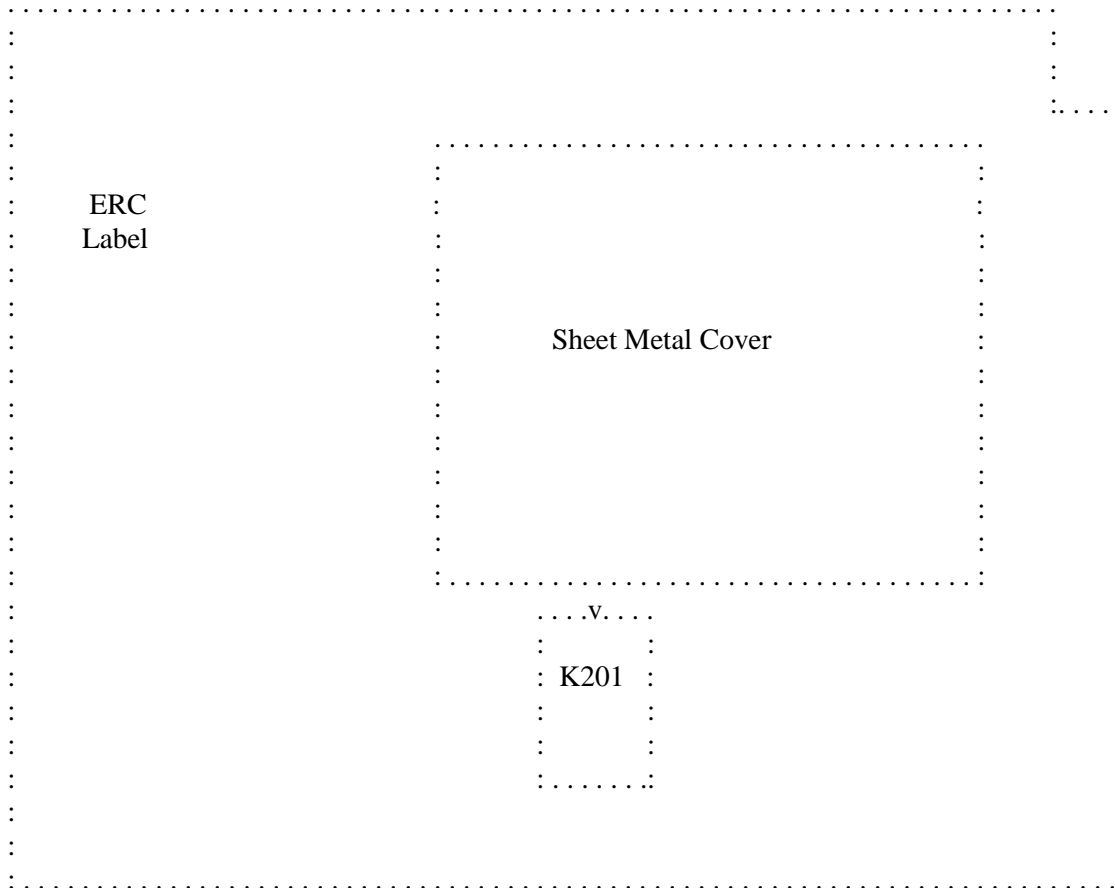
April 10, 2002

Solution/Action:

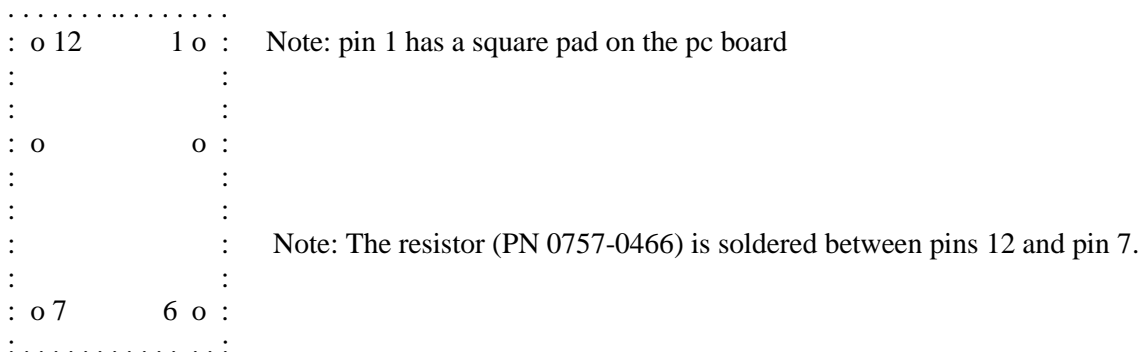
Adding a 110 KOhm resistor across relay K201 on the AC board will discharge C208 so that it does not inject charge during the ACAL AC procedure. This resistor has been added to all units produced beyond the above serial number range and does not reduce the capability of the 3458A to make precision measurements.

To perform this modification, solder the 110 KOhm resistor to the backside of the A2 assembly (03458-66502 AC PCA with an ERC < 3108) between pins 7 and 12.

Note: Observe appropriate ESD precautions when the covers of the 3458A are removed to avoid damage to components (grounded workstation, grounded wriststraps and etc.).



Component Locator diagram for A2 Assembly (ERC < 3108); PCA is 03458-66502



Bottom Side of K201 (pin-out)