

S E R V I C E N O T E

SUPERSEDES: None

HP 4349A 4-channel High Resistance Meter

Serial Numbers:

3128J00101 / 3128J00115
 3148J00155 / 3148J00198

Duplicate Service Notes: None

Modification to upgrade firmware to revision 02.00 in an old revision HP 4349A

Parts Required:

HP Part No.	Qty.	Description
04349-87105	1	Label
04349-85401	1	ROM, Rev.02.00
See NOTE	1	Manual Changes

Situation:

HP 4349A firmware has been upgraded to add the new measurement speed modes. This Service Note provides a procedure to upgrade firmware revision to 02.00.

Continued

DATE: 24 September 1992

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		
MODIFICATION AVAILABLE		
ACTION CATEGORY:	AGREEABLE TIME	<input checked="" type="checkbox"/> PERFORMANCE ENHANCEMENT <input type="checkbox"/> SERVICE/RELIABILITY ENHANCEMENT
LOCATION CATEGORY:	<input checked="" type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> HP LOCATION	AVAILABLE UNTIL: Support Life
AUTHOR: YO	ENTITY: 3355	ADDITIONAL INFORMATION:

Solution/Action:

Perform the following procedure:

CAUTION:**SUSCEPTIBLE TO DAMAGE FROM ESD**

Perform the following procedures only at a static-safety workstation and wear a grounding strap.

1. Remove the cover by removing two screws on the back of the HP 4349A.
2. Replace the A2U11 ROM on A2 board with the new ROM by referring to Figure 1.
3. Attach the cover and tighten two screws.
4. Stick the label on the front panel by referring to Figure 2.
5. Turn on the HP 4349A and check the measurement time changes properly with pressing the [Meas Time] key.
6. Perform the performance test procedure only at the following test points by referring to the Manual Changes.

Current Measurement Accuracy Test

Test Current	Resistor Setting	Voltage Setting	Measurement Time
100 pA	10^{10}	1 V	100 ms
100 pA	10^{10}	1 V	400 ms
1 nA	10^9	1 V	400 ms

Resistance Measurement Accuracy Test

Resistor Setting	Voltage Setting	Measurement Time
10^8	100 V	400 ms

NOTE:

Contact the manufacturing division through your nearest HP office to get the Manual Changes, and pass it to the end user after modification. The Manual Changes is also use\$ in step 6 to check the enhanced performance.

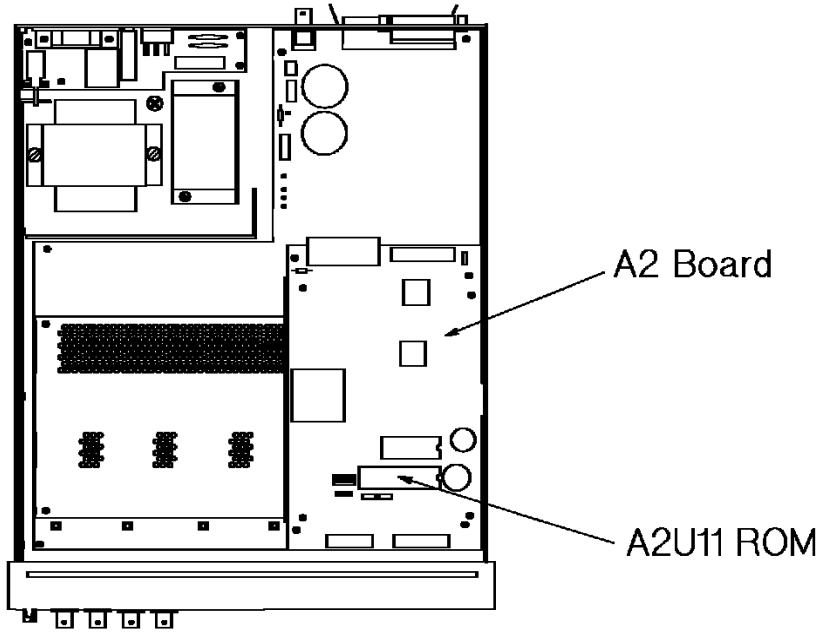
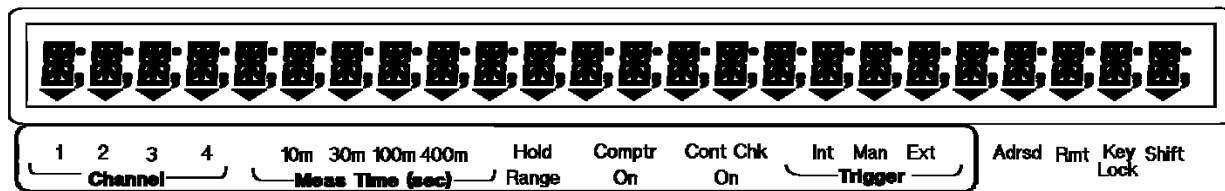


Figure 1.



Stick the label here

Figure 2.