

INFORMATION ONLY – DOES NOT COMMUNICATE  
A MODIFICATION OR SAFETY CONDITION

**53148A-03**

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

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Supersedes:  
NONE

**53148A Microwave Frequency Counter/Power Meter/DVM**

**Serial Numbers:** [0000A00000 / 9999Z99999]

**The internal DC power supply voltage may have been mis-adjusted if the unit was returned for servicing.**

**Parts Required:**

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

**ADMINISTRATIVE INFORMATION**

SERVICE NOTE CLASSIFICATION:

**INFORMATION ONLY**

AUTHOR: CJF      PRODUCT LINE: 9E

ADDITIONAL INFORMATION:

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**Situation:**

The first three editions of the Assembly-Level Service Guide [53147-90003, 53147-90007, & 53147-90010] have an error on Page 2-29. Table 2-3 incorrectly identifies the test point for the +5.0VDC supply as being on TB2. The correct test point is TP 13, located on the bottom of the motherboard. This error will be corrected in the next edition of the guide, which is also downloadable on the Agilent website for the 53148A.

All models were correctly adjusted at the factory. The voltage can only be measured and adjusted if the cover is taken off the unit, so nothing has to be done if the unit was never serviced.

**Solution/Action:**

If the unit was ever serviced using the old manual as a guide, it is possible that the +5 VDC was measured at the power supply and not the test point, and if R23 was readjusted, the voltage may now be too low. This can cause loss of margin in meeting specifications over the entire operating temperature range, and may stress some components by requiring them to draw extra current.

Remove the cover using the directions at the start of Chapter 3, and check the +5.0VDC as instructed on Pages 2-28 and 2-29, except do it at TP 13. Readjust R23 for +5.0 VDC  $\pm$  1% at TP 13.