

INFORMATION ONLY – DOES NOT COMMUNICATE
A MODIFICATION OR SAFETY CONDITION

53151A-01

S E R V I C E N O T E

Supersedes:
NONE

53151A Microwave Frequency Counter

Serial Numbers: [0000A00000 / 9999Z99999]

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

Parts Required:

P/N	Description	Qty.
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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 edition of the Assembly-Level Service Guide [53150-90003] had two errors on Page 2-14. Table 2-2 incorrectly identified the test point for the +5.0VDC supply as being on TB2. The correct test point is TP 10, located on the bottom of the motherboard. The +5VDC adjustment pot is R23, not R26. These errors were corrected in the latest edition of the guide, 53150-90015, which is also downloadable on the Agilent website for the 53151A.

An easy way to tell the difference between the two guides is that the original manual says Hewlett Packard and the new manual says Agilent.

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 2-13 and 2-14, except do it at TP 10. Readjust R23 for +5.0 VDC \pm 1% at TP 10.