

S E R V I C E N O T E

SUPERSEDES: None

HP 5340A Frequency Counter**Performance test and adjustment procedure modification for
Option 006 Microwave Limiter****Serial Numbers:** 0000A00000 / 9999A99999**To Be Performed By:** Qualified Personnel**Situation:**

The Option 006 Microwave Limiter protects Input 1, the high frequency port, from damage due to CW signals up to +39 dBm (8 watts). However, Option 006 also provides reduced sensitivity and frequency range. As a result, the performance test and adjustment procedures need to be modified to account for these specification changes.

Solution:

The following modifications refer to HP 5340A Operating and Service Manual, part number 05340-90021 and to those units that have Option 006 installed.

- Performance Test Modifications (page 5-13):
- Delete step 10. (With option 006, there is no 10 Hz to 18 GHz RANGE position.)
- In step 11, change input level to -31 dBm for option 006. RANGE switch should be set to 500 MHz to 18GHz.
- In step 12, change input level to -24 dBm.
- Delete step 13. (With option 006, there is no 250 MHz to 18 GHz RANGE position.)

Continued

DATE:

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

INFORMATION ONLY

AUTHOR: MD	ENTITY: 0200	ADDITIONAL INFORMATION:
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Adjustment Modifications (pages 5-4 through 5-12):**Change the 50 Ohm Direct Count Adjustment to the following (page 5-4):****3. 50 Ohm Direct Count Adjustment (05340-60041)**

- a. Adjust A17A1R22 fully clockwise. (This turns the A17 Direct Count Amplifier off, which is not used with the Option 006.)
- b. Set generator output for a 500 MHz signal at -31 dBm and connect to Input 1 of the HP 5340A.
- c. Set the HP 5340A Range switch to 500 MHz to 18 GHz.
- d. Set HP 5340A RANGE switch to 500 MHz to 18 GHz.
- e. Verify that the HP 5340A displays a stable 500 MHz count.
- f. This adjustment is now complete.

Change steps a and b of the Quad Detector Adjustment to the following (page 5-10):**8. Quad Detector Adjustment**

- a. Set HP 5340A RANGE switch to 500 MHz to 18 GHz and RESOLUTION switch to 100 Hz.
- b. Connect 608 Signal Generator to Input 1. Set generator to 500 MHz at -20 dBm.
- c-e. These steps remain the same as in the manual.

Change the A22R52 Adjustment to the following (page 5-12):**11. A22R52 Adjustment**

- a. Adjust A22R52 to midrange.
- b. This adjustment is now complete.