

S E R V I C E N O T E

SUPERSEDES: None

HP 8591A Spectrum Analyzer

Serial Numbers: 0000A00000 / 9999A99999

"Batman Ears" Signal Distortion

Duplicate Service Notes: 8590B-01

To Be Performed By: HP-Qualified Personnel or Customer-Qualified Personnel**Situation:**

When an HP 8590B or HP 8591A spectrum analyzer firmware is upgraded to Revision F firmware (datecode 17.7.91), discontinuities may be seen on both the LC and XTAL resolution bandwidths. The RBW's should be inspected in a 1 dB/div Reference Level for these discontinuities to be seen. Use the Cal Output signal for test. A typical setup would be:

FREQUENCY	300 MHz
SPAN	5 MHz
RES BW	3 MHz
VBW	1 MHz
SWEEP	20 msec

Continued

DATE: July 1997

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

INFORMATION ONLY

AUTHOR:

PS

ENTITY:

5300

ADDITIONAL INFORMATION:

If discontinuities are seen, check the first five calibration corrections under the ERR column in the Display Cal Data screen. These are the constants for the 1, 2, 4, 8, and 16 dB Cal Attenuator Error Corrections. The first two corrections should be preceded by a minus sign. i.e. -0.08. The last three are most likely positive but are not a problem.

Replace the absolute value using the correct sign. Use the entry procedure in the Service Manual Adjustment Procedure for "Cal Attenuator Error Corrections". Change the entry procedure to indicate that the correction sign is to be reversed when entering the data from the Table.