

P.C. 09-19241

SUPERSEDES
NONE**-hp- MODEL 3570A NETWORK ANALYZER**

Serial Numbers: 1331A01595 and Below

IMPROVING LOW AMPLITUDE PHASE MEASUREMENTS

A modification can be made to the A2 and A18 boards, 03570-66532, that will cure erratic phase measurements at low amplitudes (< 70 dBm) and low frequencies (< 500 kHz).

On the above board, the ac ground provided by C6 caused an instability due to ground currents. With only small changes in the board position, the instability can be significant enough to keep the instrument from meeting phase vs amplitude specification at 10 kHz. The addition of a resistor eliminates the instability.

If you experience phase measurement problems at low amplitudes and frequencies, simply add R50, 100 Ω , Part Number 0757-0401, in series with C6 on the A2 and A18 boards. One way to do this is to add pins on the PC board to the proper traces and connect R50 to these pins. However any method that is convenient will be acceptable. Do not forget to break the proper trace depending on your method.

Please add this information to your 3570A Operating and Service Manual.

CEW/kkz/WO

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FOR MORE INFORMATION, CALL YOUR LOCAL HP SALES OR SERVICE OFFICE or East (201) 265-5000 • Midwest (312) 255-9800 • South (404) 955-1500 • West (213) 970-7500 or (415) 968-9200; OR WRITE, Hewlett-Packard, 1501 Page Mill Road, Palo Alto, California 94304. IN EUROPE, CALL YOUR LOCAL HP SALES OR SERVICE OFFICE OR WRITE, Hewlett-Packard S.A., 7, rue du Bois-du-Lan, P.O. Box CH-1217 MEYRIN 2 -Geneva, Switzerland. IN JAPAN, Yokogawa-Hewlett-Packard Ltd., 9-1, Takakura-cho, Hachioji-shi, Tokyo, Japan 192.