

Errata

**Title & Document Type: Using the 8340A Synthesized Sweeper
with the 8410B/C Network Analyzer, Getting Started & Quick Ref Guide**

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HP References in this Manual

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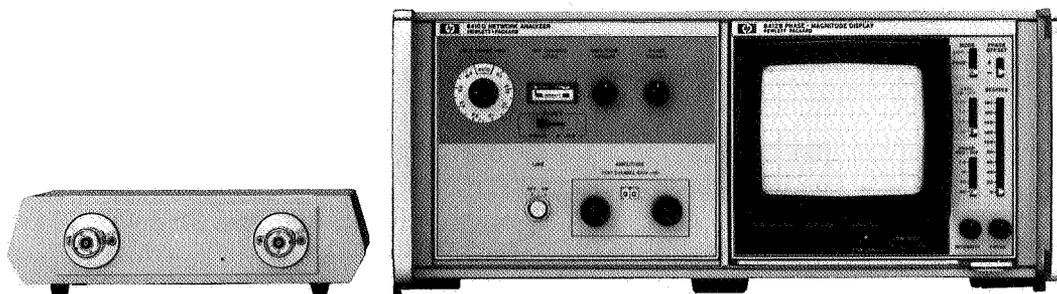
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Using the HP 8340A Synthesized Sweeper with the HP 8410B/C Network Analyzer



8410B/C NETWORK ANALYZER

The HP 8340A is compatible with the 8410B/C Network Analyzer systems and accessories. The Source Control Cable (HP P/N 08410-60146) synchronizes the two instruments to provide continuous multi-octave coaxial magnitude and phase measurement capability from 110 MHz to 18 GHz with 65 dB dynamic range. The frequency markers can be displayed in polar format as intensity dots (Z-axis).

Waveguide measurements between 18 and 26.5 GHz can be made with the K8747A Reflection/Transmission Test Unit which is designed for use with the 8410B/C. This test system utilizes two 8340A's, one as a local oscillator and the other to sweep the desired frequency range. If desired, any source covering 18 to 26.5 GHz may be substituted as the L.O.

See Figure 1 for an example measurement setup using the 8410B/C with the 8340A.

The 8410B/C **FREQ RANGE** should be set to AUTO. In addition, the sweep time on the 8340A should be slow enough and/or sweep range narrow enough to ensure phase locking of the 8410B/C receiver over the entire sweep range.

Notes on connections:

- 1 V/GHz output of the 8340A provides a frequency reference (FREQ REF) to the 8410B/C so that it may synchronize with the sweep.
- The 8410B/C display units (8412B, 8414B) require that the NEG BLANK from the 8340A be used as the blanking signal.
- Z-AXIS BLANK/MKRS (from the 8340A line) contains the Z axis markers. This line connects to the MARKERS input on the 8414B Polar Display and to the Z AXIS input on the 8412B Phase-Magnitude Display.

- SWEEP OUTPUT outputs a 0 to +10 volt signal in proportion to the swept or CW frequency output. 0 V corresponds to the lower frequency sweep limit; +10 V to the upper. Swept RF output causes a ramp voltage out; CW output causes a dc voltage out. This connection is necessary only when using the 8412B Phase-Magnitude Display.

- 8340A-8410B/C SOURCE CONTROL CABLE. Provides "handshake" lines for synchronization between the 8340A and 8410B/C (HP Part No. 08410-60146).

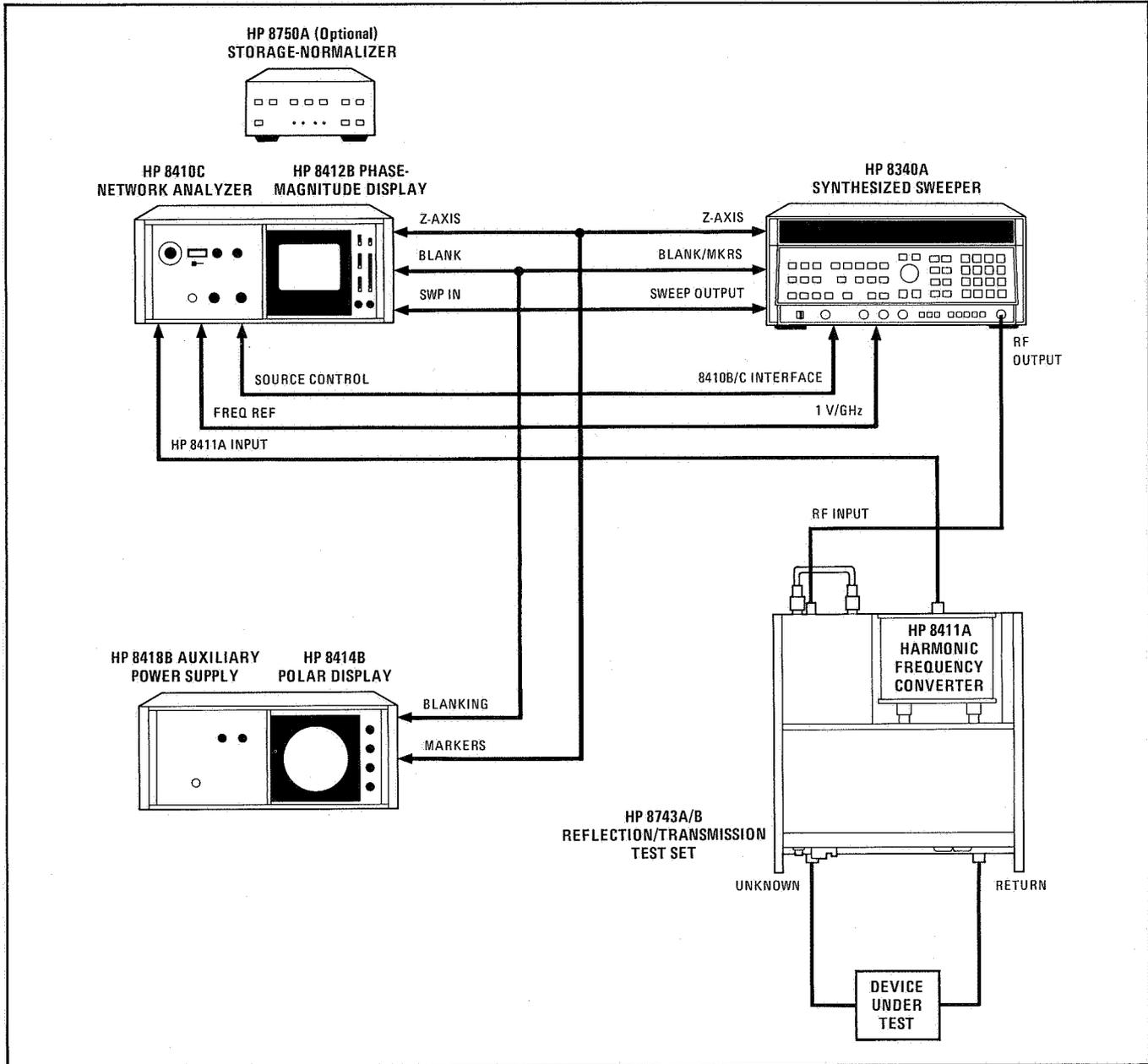


Figure 1. HP 8340A Connections to HP 8410C



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