

## Errata

**Title & Document Type: Using the 8340A Synthesized Sweeper  
with the 8410B/C Network Analyzer, Getting Started & Quick Ref Guide  
Manual Part Number: 08340-90043**

**Revision Date: 1982-08-01**

---

### HP References in this Manual

This manual may contain references to HP or Hewlett-Packard. Please note that Hewlett-Packard's former test and measurement, semiconductor products and chemical analysis businesses are now part of Agilent Technologies. We have made no changes to this manual copy. The HP XXXX referred to in this document is now the Agilent XXXX. For example, model number HP8648A is now model number Agilent 8648A.

### About this Manual

We've added this manual to the Agilent website in an effort to help you support your product. This manual provides the best information we could find. It may be incomplete or contain dated information, and the scan quality may not be ideal. If we find a better copy in the future, we will add it to the Agilent website.

### Support for Your Product

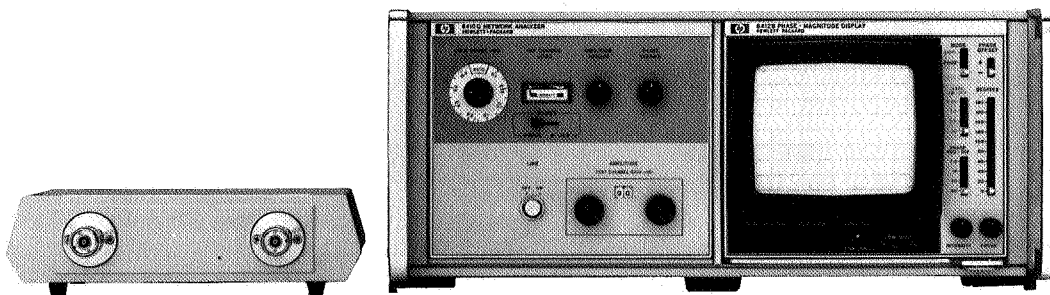
Agilent no longer sells or supports this product. You will find any other available product information on the Agilent Test & Measurement website:

[www.tm.agilent.com](http://www.tm.agilent.com)

Search for the model number of this product, and the resulting product page will guide you to any available information. Our service centers may be able to perform calibration if no repair parts are needed, but no other support from Agilent is available.



# 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.

© HEWLETT-PACKARD CO. 1982

Printed: AUGUST 1982

 **HEWLETT  
PACKARD**

- 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).

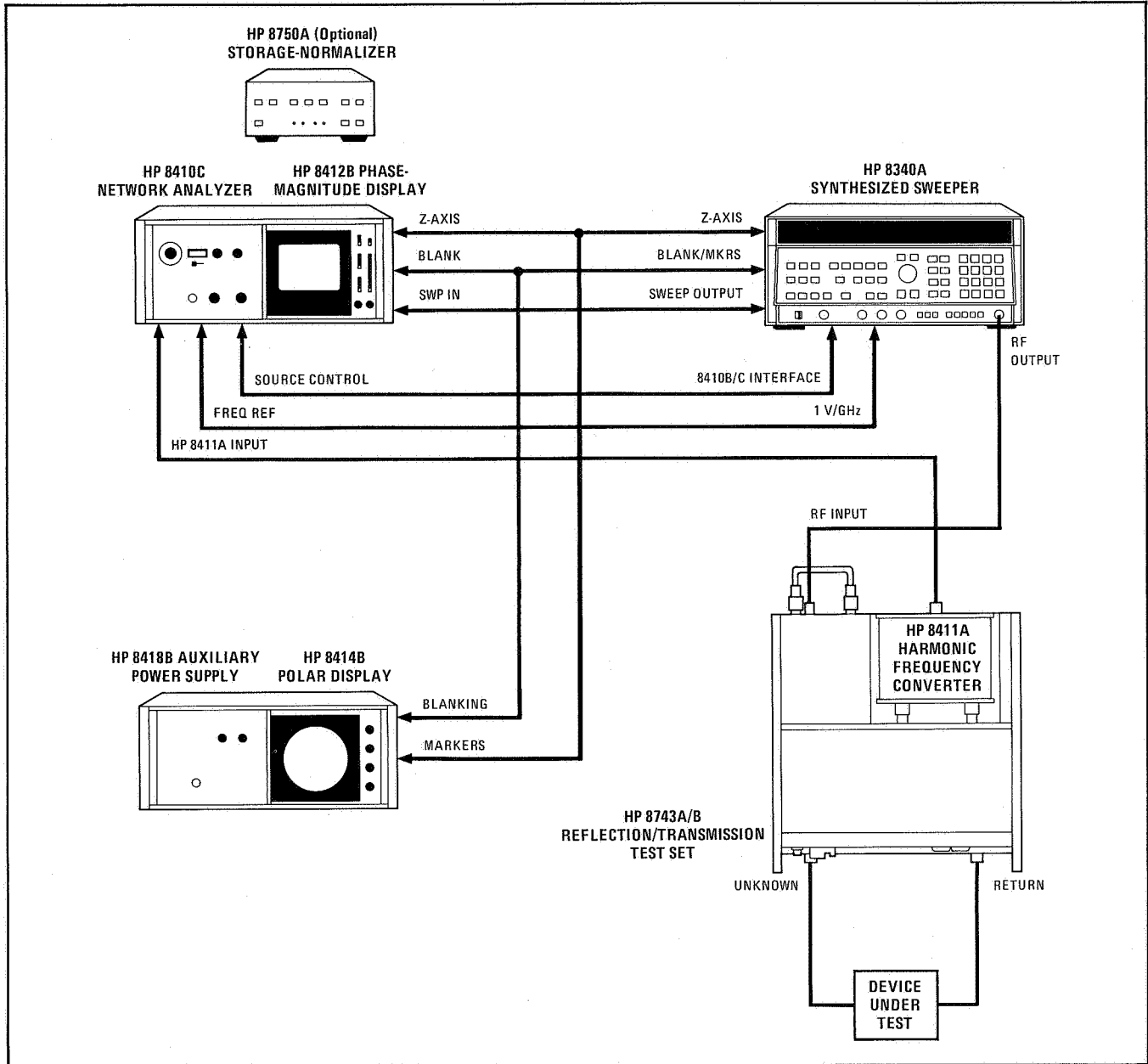


Figure 1. HP 8340A Connections to HP 8410C



For more information, call your local HP Sales Office or nearest Regional Office: Eastern (201) 265-5000; Midwestern (312) 255-9800; Southern (404) 955-1500; Western (213) 970-7500; Canadian (416) 678-9430. Ask the operator for instrument sales. Or write Hewlett-Packard, 1501 Page Mill Road, Palo Alto, CA 94304. In Europe: 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., 29-21, Takaido-Higashi 3-chome, Suginami-ku, Tokyo 168.

HP Part Number 08340-90043

Printed in U.S.A.

## Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>