

S E R V I C E N O T E

SUPERSEDES: NONE

HP 8720D Network Analyzer

Serial Numbers: US00000000 to US36140363

Firmware Upgrade improves Phaselock performance, Frequency Offset Performance, and adds programing mnemonic.**Parts Required:****HP P/N****Discription**

08720-60168 Firmware Upgrade kit (Revision D.06.10)

Duplicate Service Notes: 8719D-03, 8722D-03**To Be Performed By:** HP-Qualified Personnel**Situation:**

Some instruments with previous revisions of firmware had phaselock problems in the frequency offset mode. (option 089)

Continued

DATE: March 1997

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input type="checkbox"/> ON SPECIFIED FAILURE <input checked="" type="checkbox"/> AGREEABLE TIME	STANDARDS: LABOR 1.0 Hours	
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> HP LOCATION	SERVICE INVENTORY: <input checked="" type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT	USED PARTS: <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE		HP RESPONSIBLE UNTIL: March 1998
AUTHOR: EW	ENTITY: 5320	ADDITIONAL INFORMATION:	

Solution/Action:

- 1) Several minor modifications to make the phase lock and sweeping interactions more robust.
- 2) Improvements to the frequency offset mode (Option 089):
 - a) Actual LO (local oscillator) frequency can now vary from the LO FREQUENCY value set on the analyzer by 16 MHz, plus or minus.
 - b) Phase lock of the external R input relative to the internal R is now used to verify proper phase lock operation, and a message is shown if not locked.
 - c) The feature EXT R CHAN (external R channel switch on/off) is now enabled for either Option 85 or Option 89. This facilitates calibrations and related measurement issues when using option 089 analyzers when measuring mixers.
- 3) Added the HP-IB command SWEA (sweep time auto) which was in the 8720C but for some reason did not make it into the 8720D.