

## S E R V I C E N O T E

SUPERSEDES: None

**8720D Network Analyzer****Serial Numbers:**

8719D-01: US36140101 / US36140132

8720D-01: US36140101 / US36140181

8722D-01: US36140101 / US36140143

**Improved phase lock performance****To Be Performed By:** Agilent-Qualified Personnel**Parts Required:****Part No.**

08720-60168

**Description**

Firmware Upgrade Kit D.06.06

**Situation:**

Intermittent Phaselock errors occurred when changing any source settings (Frequency or Power) with prior firmware revisions. (C.06.02 and C.06.04)

*Continued*

DATE: October 1996

## ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
<b>MODIFICATION RECOMMENDED</b>			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input type="checkbox"/> ON SPECIFIED FAILURE <input checked="" type="checkbox"/> AGREEABLE TIME	STANDARDS: Labor 1.0 Hour	
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	SERVICE INVENTORY: <input 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		AGILENT RESPONSIBLE UNTIL: End of Support Life
AUTHOR: EW	ENTITY: 5320	ADDITIONAL INFORMATION:	

**Solution/Action:**

Changes to improve the phase lock performance can be accomplished by installing the firmware upgrade kit. (08720-60168)

A change in the Blanking Adjustment procedure is required due to change in the sweep algorithm.

**Blanking Adjustment (Test 54)**

Required Equipment and Tools (8719D/20D Only)

Power meter	436A, 437B/438A
Power sensor	8485A
3.5 mm (f) to 3.5 mm (f) adapter	85052-60012 (part of 85052B/D)

Required Equipment and Tools (8722D Only)

Power meter	436A, 437B/438A
Power sensor	8487A
2.4 mm (f) to 2.4 mm (f) adapter	11900B (part of 85056B/D)

!!Analyzer warm-up time:!! 30 minutes.

This adjustment sets the output power level during retrace. If incorrectly adjusted, the first data points in a sweep may not be stable.

\* Remove the instrument top cover and source assembly cover.

\* Press [[PRESET]] {{PRESET:FACTORY}} [[MENU]]  
 {{CW FREQ}} [[50.5]] [[M/u}} \*Press [[SYSTEM]]  
 {{SERVICE MENU}} {{TESTS}} [[54]] [[x1]].

\* When the display reads “BLANKING ADJ”, press {{EXECUTE TEST}}.

\* Calibrate the power meter and connect it to port 1.

\* Refer to Figure 3-5 in the Service Manual and use the blanking adjustment to obtain the value indicated on the analyzer display.

\* Press {{CONTINUE}}.

If you are unable to perform this adjustment, refer to the “Source Troubleshooting” chapter of the Service Manual.