

## S E R V I C E   N O T E

SUPERSEDES:  
None

**HP MODEL 8671B SYNTHESIZED SIGNAL GENERATOR**

Serial Prefixes 2708A through 2823A

**IMPROVED RELIABILITY OF THE 20-30 MHz PHASE DETECTOR**

On some units it has been determined that under certain conditions the notch filter on the A2A4 Phase Detector (HP part number 08672-60211) may break into oscillations causing the 20 - 30 MHz reference loop to go unlocked. Changing the value of C21 from 47 pF to 10 pF on the A2A4 Assembly will prevent undesired oscillations.

The following part will be needed to complete the change.

10 pF capacitor    HP part number 0160-5901

**Procedure**

1. Remove the mains power from the instrument by unplugging the power cable.
2. Remove the top cover of the instrument.
3. Remove the A2A4 Phase Detector Assembly from the A2 Controller by removing 12 screws.
4. Replace C21 with HP part number 0160-5901 (10 pF  $\pm$  0.5 pF).
5. Reinstall A2A4 Phase Detector Assembly and instrument top cover.

**Adjustments**

There are no adjustment for this assembly.