

**33521A-01**

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

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Supersedes:  
None

**33521A – 30 MHz Function/Arbitrary Waveform Generator**

**Serial Numbers: ALL**

**External clock reference indicator may be incorrect when exceeding the published specifications.**

**Parts Required:**

<b>P/N</b>	<b>Description</b>	<b>Qty.</b>
None		

**ADMINISTRATIVE INFORMATION**

SERVICE NOTE CLASSIFICATION:	
<b>INFORMATION ONLY</b>	
AUTHOR: LH	PRODUCT LINE: SP
ADDITIONAL INFORMATION:	

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**Situation:**

The 33521A has a frequency reference input with the ability to synchronize to a 10 MHz signal. The standard TCXO frequency reference will synchronize to  $10\text{ MHz} \pm 20\text{ Hz}$ . The optional ultra-high stability OCXO frequency reference will synchronize to  $10\text{ MHz} \pm 1\text{ Hz}$ .

If the external frequency reference is far beyond this range and exceeds  $10\text{ MHz} \pm 300\text{ Hz}$  (typical), the instrument may incorrectly indicate a “Locked” state.

**Solution/Action:**

Using an external 10 MHz signal within the range of the published specifications will reliably indicate “Locked”, “Unlocked” and “Detected” states.