53220A-02

S E R V I C E N O T E

Supersedes:
NONE

53220A 350 MHz Universal Frequency Counter/Timer

Serial Numbers: ALL

Changes to 53220A Warm-up Time Prior to Verification and Adjustment. 53220A is adjust-always.

Parts Required:

P/N	Description	Qty.
NONE		

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION: **INFORMATION ONLY**	
[[]] Calibration Required X Calibration NOT Required	PRODUCT LINE: SP AUTHOR: JD
ADDITIONAL INFORMATION:	

July 31, 2013

Agilent Technologies

Situation:
The recommended warm-up time for the 53220A counter prior to verification and adjustment have been updated.

The 53220A is adjust-always**.**

Solution/Action:
Recommended warm-up times are as follows:

If the instrument is currently located in the calibration environment with the power removed, turn on the instrument and allow a 45 minute warm-up period before starting the Performance Test procedures.

Upon receipt and delivery to the calibration environment, turn on the instrument and allow a 2 ½ hour warm-up/stabilization period before starting the procedures.

If it is known that the instrument has been in storage or decommissioned (unused) for several months, turn on the instrument and allow it to stabilize for 72 hours. Periodically monitor the aging (drift) rate relative to the counter's 24-hour specification. If the aging rate exceeds the 24-hour specification, allow an additional stabilization period and continue to monitor the rate relative to the specification. The counter has stabilized when aging remains within the 24-hour rate. Otherwise, the 45 minute or 2 ½ hour warm-up period applies.

An instrument that has not, or will not be used for several months should be stored in the same ambient environment and orientation in which it will eventually be used.

Aging is referenced to the last instrument adjustment (calibration). Electronic adjustment re-establishes the zero-error from which aging (drift) accumulates over the next calibration cycle.

Revision History:

Revision Number	Date	Author	Reason For Change
1.0	7-31-13	JD	As published