

S E R V I C E N O T E

SUPERSEDES:

HP MODEL 8690B SWEEP OSCILLATOR

HP MODEL 8698B AND 8699B RF UNITS

ALL SERIALS

TIGHTEN 8690B VOLTAGE ADJUSTMENT TOLERANCES

Tighter voltage tolerances must be kept when adjusting the 8690B Sweep Oscillator mainframe for use With the new 8698B and 8699B RF Units. These new tolerances are necessary in order for the 8698B/8699B to meet their performances specifications.

All 8690B Sweep Ramp Voltage Adjustment tolerances measured at A4 Test Point 4 must be held to ± 0.01 Vdc. Refer to the Maintenance Section of 8690B Operating and Service Manual with the latest Manual Changes.

8690B power supply tolerances, at rated line, for use with 8699B:

Supply	Tolerance	Variation with HI-LO Line ($\pm 10\%$)
-300V	$\pm 0.1V$	$< \pm 0.02V$
+275	± 0.2	$< \pm 0.02$
+20	± 0.1	$< \pm 0.01$

The 8690B ΔF Bandwidth Calibration adjustment tolerance must be tightened to achieve the full ΔF bandwidth accuracy specification for the 8698B. Refer to 8690B Manual. The ΔF BANDWIDTH ADJUST, A2R25 must be set for a voltage change of 7.0 ± 0.1 Vdc at A4 Test Point 4 when the MANUAL SWEEP control is rotated from MAX CCW to MAX CW.

JD/lb/wn

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