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DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

CALIBRATION PROCEDURE FOR SIGNAL GENERATOR SG-769/U AND WAVETEK MODEL 111 AND 111B

Headquarters, Department of the Army, Washington, DC
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*This bulletin supersedes TB 9-6625-1347-50, 26 September 1969.

SECTION I
IDENTIFICATION AND DESCRIPTION

1. Test Instrument Identification. This bulletin provides instructions for the calibration of Signal Generator SG-769M and Wavetek Model 111 and 111B. The manufacturer's instruction manual was used as the prime data source in compiling these instructions. The equipment being calibrated will be referred to as the TI (test instrument) throughout this bulletin.

a. Model Variations. Variations among models are described in text.

b. Time and Technique. The time required for this calibration is approximately 6 hours, using the dc and low frequency technique.

2. Calibration Data (DA Form 2416)

a. Forms, records, and reports required for calibration personnel at all levels are prescribed by TM 38-750. DA Form 2416 must be annotated in accordance with TM 38-750 for each calibration performed. Reportable adjustments are followed by (R) in this procedure. Report only those adjustments made on the DA Form 2416.

3. Calibration Description. TI parameters and performance specifications which pertain to this calibration are listed in table 1.

Table 1. Calibration Description - Test Instrument, Serial Numbers of 017781 or Lower

Test instrument parameters	Performance specifications
Power input requirements*	115 V ac ±10% or 230 V ac ±10% 50 to 400 Hz at approx. 10 w
Frequency	Range: 0.0015 Hz to 1 MHz in 8 ranges Accuracy: ±1% fs from 0.0015 Hz to 100 kHz; ±2% of fs from 100 kHz to 1 MHz
Stability*	Drift less than ±0.05% of setting for 10 min; less than ±0.25% of setting for 6 hours
Output waveforms	Sine wave, square wave, triangle, ramp, and sine pulse
Sine wave, square wave, and triangle output (selectable):	Amplitude: 0 to 32.5 V p-p open circuit, 90 to 10 V p-p into 50Ω; 0 to 30 V p-p into 600Ω Accuracy: ±1% at 32.5 V p-p

See footnote at end of table.