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DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

CALIBRATION PROCEDURE FOR

ELECTRONIC COUNTER,

HEWLETT-PACKARD

MODEL 5223L AND C10-5223L

Headquarters, Department of the Army, Washington, DC
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SECTION I

INTRODUCTION AND DESCRIPTION

1. Purpose and Scope. This bulletin provides instructions for the calibration of Electronic Counter, Hewlett-Packard Model 5326L and C10-5326L. It is to be used by personnel that are trained and qualified in the usage of calibration standards and equipment. Electronic Counter, Hewlett-Packard Model 5326L and C10-5326L will be referred to as the "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 8 hours, using the dc and low frequency technique.

2. Calibration Data Card (DA Form 2416). Maintenance forms, records, and reports which are to be used by calibration personnel at all calibration levels are listed in and prescribed by TM 38-750. Reportable adjustments are followed by (R).

3. Reporting of Errors. The reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forwarded direct to Commander, US Army Electronic Command, ATTN: AMSEL-MA-DS, Fort Monmouth, NJ 07703.

4. Calibration Description. Test instrument parameters and performance specifications which pertain to this calibration are listed in table 1.

Table 1. Calibration Description

Test instrument parameter	Performance specification
Power input requirements	115 or 230 v ± 10%, 48 to 63 Hz, 80 v
Frequency	Range: 0 to 200 kHz Accuracy: ±1 count ± time base accuracy
Time base	Internal frequency 100 kHz Aging rate: Less than ±2 parts in 10^9/week
Input sensitivity and frequency response	Range: dc coupled, 0 to 200 kHz; ac coupled, 10 Hz to 200 kHz Sensitivity: 0.1 v rms sine wave, 1 v pulse, 1 μsec min pulse width

SECTION II

EQUIPMENT REQUIREMENTS

(A AND C LEVEL)

5. Equipment Required. Tables 2 and 4 identify the specific equipment used in the calibration procedures in sections IV and VI, respectively. The equipment in tables 2 and 4 are issued with secondary transfer calibration standards set 4931-681-7677 and AN/TSM-165A(v) Transportable Maintenance Calibration Facility, respectively, and is to be used in performing this procedure. Alternate