TB 11-6625-620-35-2

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

CALIBRATION PROCEDURE FOR TELETYPEWRITER TEST SET TS-800/UGM-l

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SECTION I
INTRODUCTION AND DESCRIPTION

1-1. Purpose and Scope. This bulletin Provides for the periodic calibration of Teletypewriter Test Set TS-80/UGM-1. It is to be used by personnel trained and qualified in the use of calibration equipment. Since calibration personnel are trained and qualified in the usage of test and measuring equipment, detailed instructions concerning the operation and use of these equipments are not contained in this bulletin.

1-2. Reporting of Technical Bulletin Improvements. The reporting of errors, omissions, and recommendations for improving this bulletin 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 Electronics Command, ATTN: AMSEL-MA-DS, Fort Monmouth, NJ 07703.

1-3. Descriptive Data. The Teletypewriter Test Set TS-80/UGM-1 (distortion analyzer) indicates the amount of distortion present in a start-stop telegraph signal and compares the position of the input signal transitions to an accurate time-base signal that is generated in the time base circuits, and indicates whether the signal transitions are occurring at the correct time, early, or late. Additional data is listed in *a, b,* and *c* as follows:

a. Identification.

Nomenclature	Test Set, Teletypewriter TS-800/UGM-1
Federal stock number	6625-965-0197
Size	8-23/32x17-1/8x8-7/16 in.
Weight	17-1/2 lbs
References	TM 114625-62045-2, TM 11-6625-620-12

b. Specifications.

(1) *Types of input current.*

Neutral operation	20 mA; 60 mA
Polar operation	30 mA; polar
Input rate acceptance	7-unit code at 45 and 150 bauts; 7.5-unit code at 45, 50, 74 and 75 bauds; dot cycles at 23, 37, 37.5, 75, or 100 Hz

(2) ***Types of distortion indicated.*** Types of distortion are total peak, early peak, late peak and average for mark-to-space or space-to-mark transitions.

(3) ***Distortion indicators.*** The percent distortion meter is a 250° front panel milliammeter calibrated 0% to 50% (±2%) with a 1 mA sensitivity at 53 millivolts. Meter resistance is 53 ohms. There is one EARLY indicator lamp and one LATE indicator lamp.

(4) *Power requirements.*

Voltage	115 or 230 ± 10 volts ac, single phase
Frequency	50 to 400 Hz
Power consumption	16.5 watts

c. Calibration.

Interval	In accordance with TB 43-180.
Time required	2 hrs
Technique	DC-low frequency

1-4. General Instructions. ***a. Calibration Reporting.***

(1) Forms, records, and reports required for calibration personnel at all levels are prescribed by TM 38-750. DA Form 2416 (Calibration Data) must be annotated in accordance with TM 38-750 for each calibration performed.

(2) Adjustments to be reported on DA Form 2416 are designated (R) at the end of the sentence in which they appear. When adjustments are in tables, the (R) will follow the designated adjustment. Report only those adjustments made and designated with (R).

b. Test Instrument. Teletypewriter Test Set TS-800/UGM-1 will be referred to as the Test Instrument.

SECTION 11
EQUIPMENT REQUIREMENTS

NOTE

Minimum use specifications are the principal parameters required for performance of the calibration, and are included to assist in the selection of alternate equipment, which may be used at the discretion of the calibrating activity. Satisfactory performance of alternate items shall be verified prior to use. All applicable equipment must bear evidence of current calibration.