

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

CALIBRATION PROCEDURE FOR
TELEPHONE TEST SET TA-885/U AND
HEWLETT-PACKARD, MODEL 3555B

Headquarters, Department of the Army, Washington, DC
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REPORTING OF ERRORS

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*This bulletin supersedes TB 11-6625-2779-35, 12 December 1977, including all changes.

SECTION I

IDENTIFICATION AND DESCRIPTION

1. Test Instrument Identification. This bulletin provides instructions for the calibration of Telephone Test Set TA-885/U and Hewlett-Packard, Model 3555B. The manufacturer's 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. None.

b. Time and Technique. The time required for this calibration is approximately 7 hours, using the dc and low frequency technique.

2. DA Form 2416 (Calibration Data Card)

a. Forms, records, and reports required or calibration personnel at all levels are described by TB 750-25. DA Form 2416 must be annotated in accordance with TB 750-25 for each calibration performed.

b. 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) follows the designated adjustment. Report only those adjustments made and designated with (R).

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

Table 1. Calibration Description

Test instrument parameters	Performance specifications
Carrier level (30 Hz to 3 MHz) 75 ohms unbalanced 600 ohms balanced 135 ohms balanced	Range: -61 dBm to +11 dBm Accuracy: +0.2 dB, 100 Hz to 600 kHz ±0.5 dB, 30 Hz to 1 MHz ±0.5 dB +10% of meter reading; 1 to 3 MHz ±0.2 dB, 10 to 100 kHz ±0.5 dB, 1 to 150 kHz ±0.2 dB, 10 to 300 kHz ±0.5 dB, 1 to 600 kHz
Voice level (20 Hz to 20 kHz)	Range: -80 dBm to +31 dBm Accuracy: ±0.2 dB, 40 Hz to 15 kHz (levels greater than -60 dBm) ±0.5 dB, 20 Hz to 20 kHz
Bridging loss Voice level Carrier level	Less than 0.3 dB at 1 kHz Less than 0.05 dB at 10 kHz

SECTION II

EQUIPMENT REQUIREMENTS

4. Equipment Required. Table 2 identifies the specific equipment to be used in this calibration procedure. This equipment is

issued with Secondary Transfer Calibration standards Set AN/GSM-286. Alternate items may be used by the calibrating