

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

**CALIBRATION PROCEDURE FOR
 AUDIO TEST SET
 TS-3156/U AND TS-3171/U
 (NORTHEAST ELECTRONICS MODELS TTS-37B AND
 TTS-37BR)**

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

You can help improve this manual by calling attention to errors and by recommending improvements and stating your reasons for the recommendations. Your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) should be mailed direct to Commander, US Army Electronics Command, ATTN: DRSELIMA-Q, Fort Monmouth, New Jersey 07703. A reply will be furnished direct to you.

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SECTION I
INTRODUCTION AND DESCRIPTION

1. Test Instrument Identification. This bulletin provides instructions for the calibration of Audio Test Set TS-3156/0 and TS-3171/U, Northeast Electronics Models TTS-37B and TTS-37BR. 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 the text.

b. Time and Technique. The time required for this calibration is approximately 2 hours, using the d. c. and low frequency technique.

2. Calibration Data Card (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. b. Adjustments to be reported on DA Form 2416 are designated (R) at the end of the sentence in which they appear. 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
Meter tracking: Range: Accuracy:	+3 to -3 on TI meter +0.15 db
Attenuation: Range: Accuracy: S/N 1 to 4300 S/N 4300andup	0 to 10 db and 0 to 90 db +0.15 db + 10 to -60 db; +03 db +20 to -10 and -60 to -70 db. +0.15db, +20dbto -70db.
Frequency responses: Range: Accuracy:	300 to 700 Hz -0.15 db, 300 to 1500 Hz (3 kHz) and 300 to 5000 Hz (15 kHz); -3 db, 625 to 675 Hz and 2800 to 3100 Hz: -40 db, 85 to 115 Hz and 6000 to 7(00 Hz (C-MSG).