

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

**CALIBRATION PROCEDURE FOR
TRANSMITTER TEST SET
LITCOM MODEL NO. 4400**

Headquarters, Department of the Army, Washington, D. C.
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Section I. GENERAL

1. Purpose and Scope

a. This bulletin contains calibration instructions for Transmitter Test Set, Litcom Model No. 4400 (transmitter test set), and is used by maintenance calibration personnel. Since maintenance calibration personnel are trained and qualified in the use of test and measuring equipment, detailed instructions concerning the operation and use of these equipments are not contained in this bulletin.

b. Integrated within this bulletin is an illustration which shows front panel controls and indicators.

2. Reporting of Technical Bulletin Improvements

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 forwarded direct to Commanding General, US Army Electronics Command, ATTN: AMSEL-MA-CFA, Fort Monmouth, N. J. 07703.

3. Description

The transmitter test set is a portable equipment that provides maintenance support for subassemblies contained in Transmitting Set, Radio AN/FRT-76 and Transmitting Set, Radio AN/FRT-77. The transmitter test set enables direct support maintenance

personnel to test and troubleshoot servomotors and overload protection circuits in the AN. FRT-76 and AN FRT-77. The subassemblies under test are activated by stimuli, generated in the transmitter test set, which simulate actual operating conditions. A front panel meter and indicator are provided for monitoring. The transmitter test set overall assembly is housed in an aluminum transit case. The transit case consists of a base and detachable cover. The cover contains a removable plate which stores the accessory items supplied with the transmitter test set such as cables. The plate is secured to the cover by four fasteners. All operating controls of the transmitter test set are mounted on the front panel assembly. Two handles are provided on the front panel assembly for convenience in removal of the transmitter test set overall assembly from the transit case for servicing. The front panel controls and indicators of the transmitter test set are illustrated in figure 1. Additional data is listed in a, b, and c below.

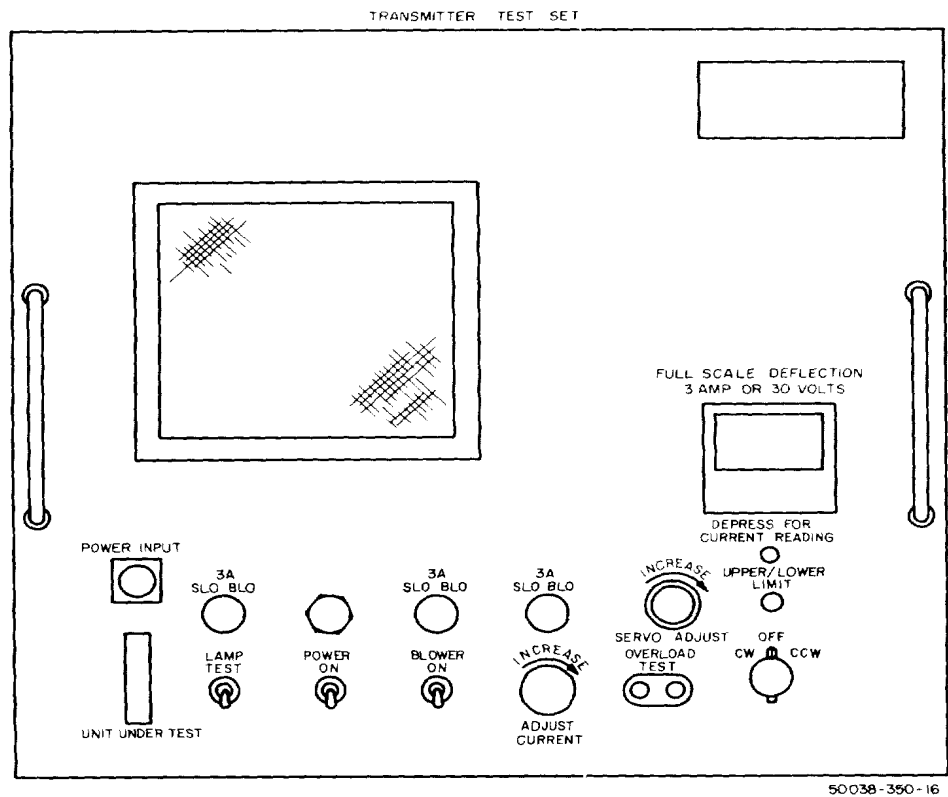


Figure 1. Transmitter test set controls and indicators.

a. Identification.	
Nomenclature.....	Transmitter Test Set
Size	Litcom model 4400.
Weight	21 1/2 by 22 1/2 by 24 1/2
	70 lbs (approx)
b. Specifications.	
Input requirement.....	103.5 to 126.5 volts ac, 54 to 66
	Hz, single-phase.
Power supply output voltage	+24 volts, de (+ 2 percent)
c. Program Data.	
Calibration interval	In accordance with TB 750-236
Time required for calibration	30 minutes.
Calibration level	Maintenance

4. General Instructions

- a. Calibration Reporting. During the performance of the calibration procedures included in this manual, annotate DA Form 2416 (Calibration Data Card) in accordance with TM 38-750.
- b. Removal. Remove unit under test main assembly from its protective case to perform calibration procedures.
- c. Unit Under Test. Transmitter test set will be referred to as "unit under test" throughout this procedure.