

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

**CALIBRATION PROCEDURE FOR RECEIVER
TEST SET LITCOM MODEL NO. 4700**

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**SECTION I
GENERAL**

1. Purpose and Scope. a. This bulletin contains calibration instructions for Receiver Test Set, Litcom Model No. 4700 (receiver 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 instruction

concerning the operation and use of these equipments are not contained in this bulletin.

b. Integrated within this bulletin is an illustration (fig. 1) which shows location of controls utilized in this calibration procedure.

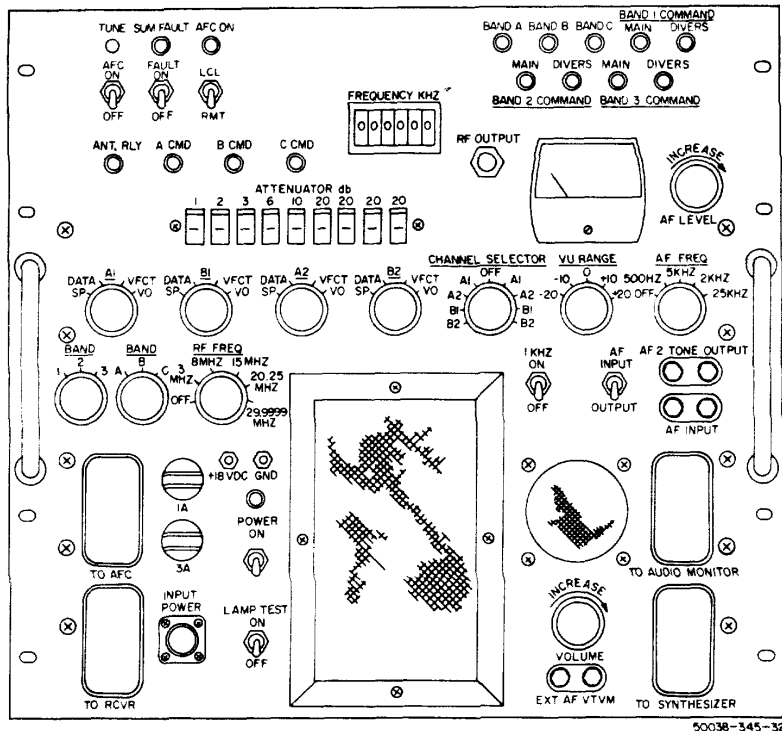


Figure 1. Receiver test set, controls and indicators.

2. Reporting of Technical Bulletin Improvements.

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 forward direct to Commanding General, U. S. Army Electronics Command, ATTN: AMSELMA-CFA, Fort Monmouth, N. J. 07703.

3. Description. a. The Receiver Test Set, Model 4700 (receiver test set) is a portable equipment that provides maintenance support for Receiving Set, Radio AN/FRR-79. The receiver test set checks five major components of the AN/FRR-79 and enables direct support maintenance personnel to test and troubleshoot the AN/FRR-79 and its components down to the card level. Each major component of the AN/FRR-79 is activated by stimuli from the receiver test set which simulates actual operating conditions. The receiver test set contains circuits which perform frequency mode selection, status display, audio (VU meter) and visual monitoring, attenuation, and remote control functions in the components of AN/ FRR-79. The transit case consists of a base and detachable cover. The cover contains a removable plate which stores the accessory items supplied with the receiver test set such as cables. The plate is secured to the cover by four fasteners. The base of the transit case contains two handles for lifting and carrying, and six latches that secure the cover to the base. Additional data is listed in a, b, and c below.

a. Identification.

Nomenclature Receiver Test Set Litcom
Model 4700.

Size 21 1/2 by 22 1/2 by 24 1/2 in.

Weight 35 lbs (approx.)

b. Specifications.

Input requirement 103.5 to 125.5 volts, 54 to 66 Hz

single phase.

Power consumption 150 watts.

Oscillator frequencies 3.0, 8.0, 15.0, 20.25, 29.99 MHz. ($\pm$ percent)

Power supply output voltage 18 volts dc. (+ 3 percent)

c. Program Data.

Calibration interval In accordance with TB 750-236

Time required for
calibration 1 hour.

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. Do not remove unit under test from its protective case unless adjustment is required.

c. Unit under test. Receiver test set will be referred to as "unit under test" throughout this procedure.