

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

**CALIBRATION PROCEDURE FOR
OSCILLATOR I MODULATOR TEST SET
LITCOM MODEL NO. 4401**

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SECTION I

GENERAL

1. Purpose and Scope. *a.* This bulletin contains calibration instructions for Oscillator/Modulator Test Set, Litcom Model No. 4401 (oscillator/modulator 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 which shows front panel 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 (Recommend Changes to Publications) and forwarded direct to Commanding General, US Army Electronics Command, ATTN: AMSEL-MA-CFA, Fort Monmouth, NJ 07703.

3. Description. The oscillator/modulator test set is a portable equipment that provides maintenance support for Transmitting Set, Radio AN/FRT-76 and -77. The oscillator/modulator test set enables direct

support maintenance personnel to test and troubleshoot the AN/FRT-76 and -77 and its components down to the card level. Each major component of the AN/FRT-76 and -77 is activated by stimuli from the oscillator/modulator test set which simulates actual operating conditions. The oscillator/modulator test set contains circuits which perform frequency mode selection, status display, audio monitoring (VU meter), attenuation, and remote control functions in the AN/FRT-76 and -77. The oscillator/modulator 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 oscillator/modulator test set such as cables. The plate is secured to the cover by four fasteners. All operating controls of the oscillator/modulator test set are mounted on the front panel assembly. Two handles are provided on the front panel assembly for convenience in removal of the oscillator/modulator test set overall assembly from the transit case for servicing. The front panel controls and indicators of the oscillator/modulator test set are illustrated in figure 1. Additional data is listed in *a*, *b*, and *c* below.