DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

CALIBRATION PROCEDURE FOR THREE-PHASE INPUT POWER CONTROL (Raytheon Part No. 490132-1)

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SECTION I

GENERAL

1. Introduction and Description. *a.* This manual contains the information necessary to calibrate the ac voltmeter and ammeter in the Three-Phase Input Power Control (Raytheon Part Number 490132-1). The Three-Phase Input Power Control (fig. 1) is a portable test set used to provide a variable ac power source for the frequency changer and power supply-battery charger used in Communications Central AN/TSC-38B. The test set includes an ac control panel which provides three ac measurement and control circuits, one each for phases A, B, and C of the 3-phase 208-Vac voltage supplied to the frequency changer and power supply-battery charger. The three ac control circuits are monitored by an ac voltmeter and an ac ammeter under control of two separate meter function switches. The procedure for calibrating the ac voltmeter and ammeter can be performed using the phase A, phase B, or phase C switch position. Phase B is used in this procedure for convenience.

b. Integrated within this bulletin are illustrations showing the location of all operational controls and components used in the calibration procedure, as well as diagrams showing equipment setups.

2. Reporting of Technical Bulletin Improvements. The reporting of errors, ommissions, 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 Blank Forms) and forwarded direct to Commander, U.S. Army Electronics Command, ATTN: AMSEL-MA-DS, Fort Monmouth, NJ 07703.

3. General Instructions. The following instructions are applicable to the calibration and reporting requirements for: the Three-Phase Input Power Control, Raytheon Part Number 49132-1.

a. Calibration Reporting. During the performance of the calibration in accordance with this procedure, annotate DA Form 2416 (Calibration Data Card) in accordance with TM 38-750.

b. Equipment and Accessory Identification. The measurement and calibration equipment and the supporting accessory items referred to throughout this bulletin are identified in table 1.

c. Terms. The Three-Phase Input Power Control will be referred to as the "unit under test."

d. Equipment Setup Changes. Disconnection instructions are given following each calibration procedure. Complete setup instructions are given prior to each calibration procedure.

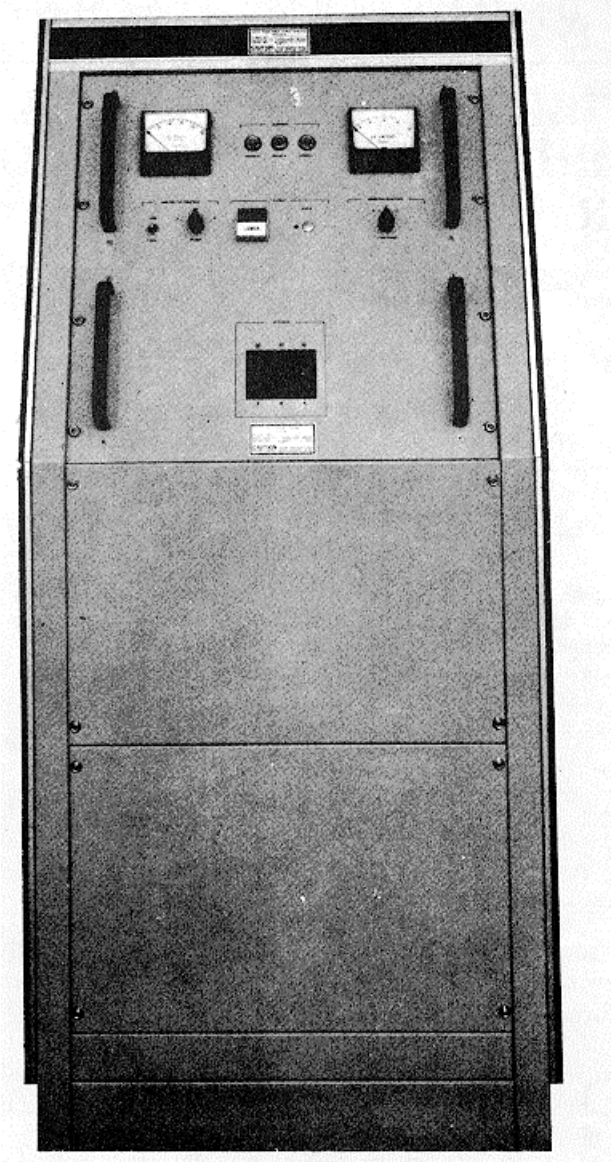

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Figure 1. Three-phase input power control-front panel view.