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DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

CALIBRATION PROCEDURE FOR TEST SET, CONTROL MONITOR-RECORDING HEAD AN/AYM-9

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SECTION I GENERAL

1. Purpose and Scope. a. This bulletin provides information for the periodic calibration of Test Set, Control Monitor-Recording Head AN/AYM-9 which is used by maintenance calibration personnel. Since calibration personnel are trained and qualified in the use of calibration test and measuring equipment, detailed instructions concerning the operation and use of these equipments are not contained in this bulletin.

b. This bulletin contains illustrations that locate all controls and components used in this calibration procedure. Equipment ground connections are not necessarily shown in the diagrams.

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 (&commended Changes to Publications) and forwarded direct to Commander, U S Army Electronics Command, ATTN: AMSEL-MA-CRA, Fort Monmouth, NJ 07703.

3. Description. a. Test Set, Control Monitor-Recording Head AN/AYM-9 (hereinafter referred to as the CM-RH test set), is used to test and record operational serviceability of Control-Monitor C-8338/AYA-10 (hereinafter referred as the control-monitor) of an AN/AYA-10 Airborne Data Annotation System. Bench testing includes an operational check of the CRT monitor assembly, testing switch circuitry, and testing recording head assemblies used in airborne sensor and camera systems. Ensure that calibration procedures are performed in the environmental conditions shown in table 1.

Table 1. Calibration Environmental Conditions

Environment	Condition
Temperature	55 to 91°F or 13 to 33°C
Atmospheric Pressure	28.5 to 33.0 inches of Mercury
Relative Humidity	20 to 80 percent

b. The test set consists of two hand carried combination cases. Case 1, Monitor Input Simulator SM-627/AYM-9 (hereinafter referred to as monitor input simulator) contains all electronic circuits mounted on a removable chassis. The major portion of the signal generating circuits are contained on seven printed circuit cards. The remaining circuitry consists of the panel controls, indicators, and power transformer. Case 2, Test Set Case CY-7117/AYM-9 contains a camera, recording head assembly holding fixture, cable assemblies, and accessories.

4. General Instructions. a. Calibration Reporting. During the performance of the calibration procedures included in this bulletin, annotate DA Form 2416 (Calibration Data Card) in accordance with TM 38-750.

b. Removal. Do not remove any of the subassemblies to be calibrated from its protective case unless necessitated by equipment connections and/or components to be adjusted which cannot be reached from the external parts of the CM-RH test set.

c. Test Instrument. The CM-RH test set will be referred to as "test instrument" throughout this procedure.

d. Program Data.

Calibration interval	In accordance with TB 750-236
Time required for calibration	2.5 hours (approx.)
Calibration level -	Maintenance

SECTION II CALIBRATION

5. Equipment Required. a. Table Explanation. Table 2 contains calibration equipment accessories required to properly calibrate the CM-RH test set. The item column gives a reference item number and the generic name; the minimum use specifications column gives the parameters, range, and accuracy required by the calibration procedures; the calibration equipment column contains examples of

equipment that meets or exceeds the criteria shown in the minimum use specifications column.

NOTE

Minimum use specifications are the principal parameters required for performance of the calibration, and are included to assist in the selection of alternate equipment,