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T E C H N I C A L M A N U A L

OPERATION AND SERVICE/Organizational, GS
AND DEPOT MAINTENANCE MANUAL
WITH
ILLUSTRATED PARTS BREAKDOWN

SIMULATOR TEST SET
AN/APM-245A

HAZELTINE CORPORATION

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This technical manual and the equipment covered herein is configured for inter-service use and maintainability by direction of the Department of Defense AIMS System Program Office (DOD-AIMS SPO). No changes shall be made to the equipment or the Technical Manual without the approval of the DOD AIMS SPO.

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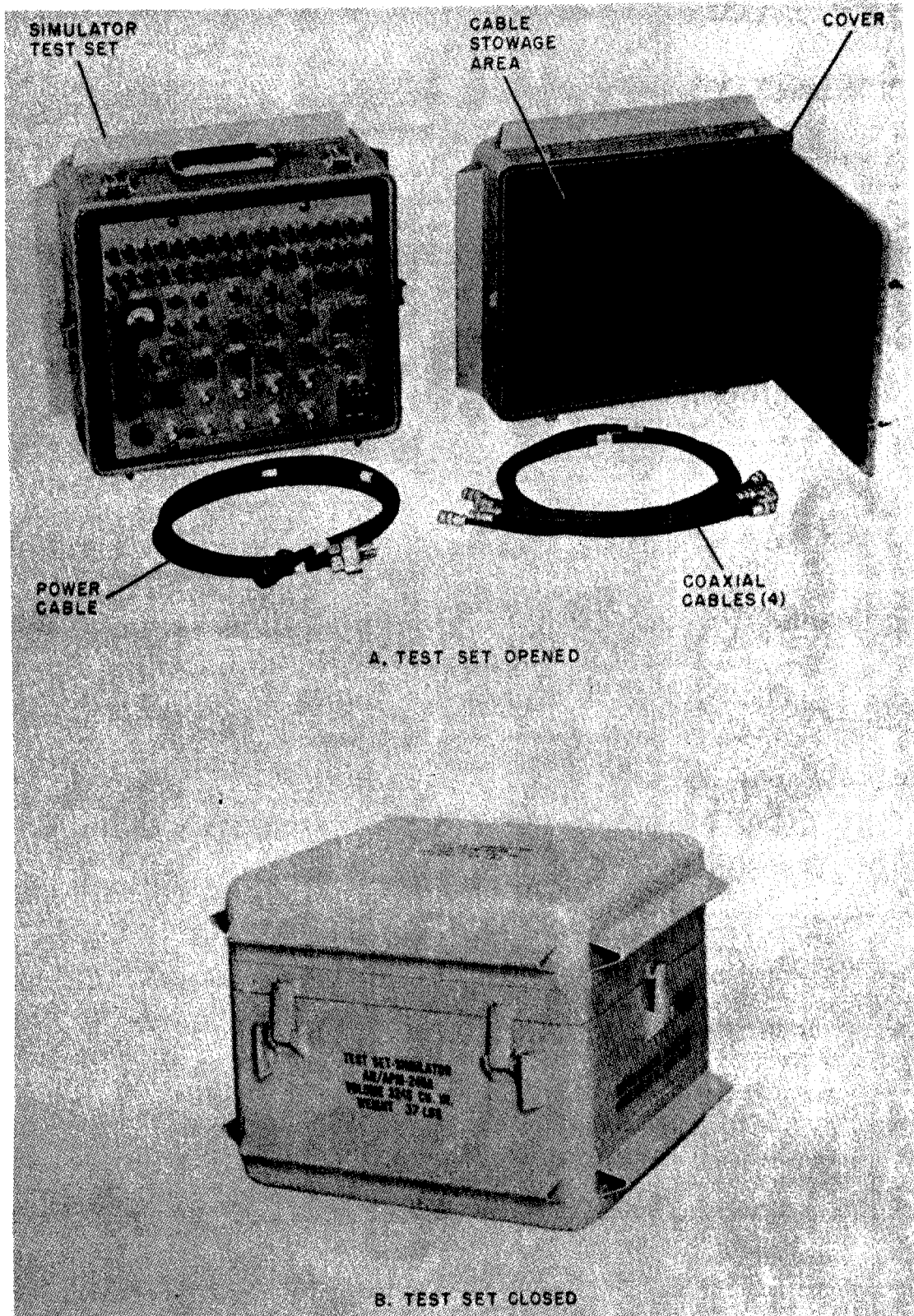


Figure 1-1. Simulator Test Set AN/APM-245A

SECTION I

INTRODUCTION AND GENERAL INFORMATION

1-1. SCOPE.

1-2. This manual contains general operation, operators and organizational maintenance, intermediate maintenance, and depot overhaul maintenance instructions for Simulator Test Set AN/APM-245A. (See figure 1-1.) Operating procedures are described in Section IV. Organizational, intermediate, and depot maintenance instructions are provided in Sections V, VI, and VII, respectively, and include instructions for troubleshooting, testing, and aligning the equipment. Also included in this manual are a description of the theory of operation (Section IV), a parts list (Section IX), and equipment schematics and test data (Section VIII).

NOTE

This technical manual and the equipment covered herein are configured for interservice use and maintainability by direction of the Department of Defense AIMS System Program Office (DOD AIMS SPO). No changes shall be made to the equipment or the technical manual without the approval of the DOD AIMS SPO.

1-3. MAINTENANCE FORMS AND RECORDS.

1-4. REPORTS OF MAINTENANCE AND UNSATISFACTORY EQUIPMENT. Department of the Army forms and Procedures used for equipment maintenance will be those prescribed in TM 38-750.

1-5. REPORT OF PACKAGING AND HANDLING DEFICIENCIES. Fill out and forward DD Form 6 (Report of Packaging and Handling Deficiencies) as prescribed in AR 700-58 (Army), NAVSUP Pub 378 (Navy), and AFR 71-4 (Air Force).

1-6. REPORTING OF ERRORS. 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 DA Publications) and forwarded direct to Commanding General, U.S. Army Electronics Command, Attn: AMSEL-MA-S, Fort Monmouth, N. J. 07703.

1-7. PURPOSE OF EQUIPMENT.

Simulator Test Set AN/APM-245A (hereafter referred to as the simulator test set) is a portable facility used for maintenance support of transponder and interrogator units. The simulator test set provides the mode 4 signals necessary for bench testing and adjusting these units.

1-9. GENERAL DESCRIPTION.

1-10. The simulator test set is contained in a portable aluminum carrying case. All controls, switches, connectors, and indicators are located on the front panel with coaxial cables, power cable, and accessories located under the cover.

1-11. CHARACTERISTICS.

1-12. The electrical and mechanical characteristics of the simulator test set are listed in table 1-1.

1-13. EQUIPMENT SUPPLIED.

1-14. The equipment supplied with the simulator test set are listed in table 1-2.

1-15. INDEX OF EQUIPMENT PUBLICATIONS.

1-16. Refer to the latest issue of DA Pam 310-4 (Army), NAVSUP 2002 Section VIII (Navy), or publications pertaining to the equipment.

1-17. Refer to DA Pam 310-7 (Army) to determine whether there are Modification Work Orders (MWO'S) pertaining to the equipment.