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DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR AND ORGANIZATIONAL MAINTENANCE MANUAL

TEST SET, ANTENNA AN/ARM-115

(NSN 6625-00-935-4293)

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pages from Changes 1 through 3.

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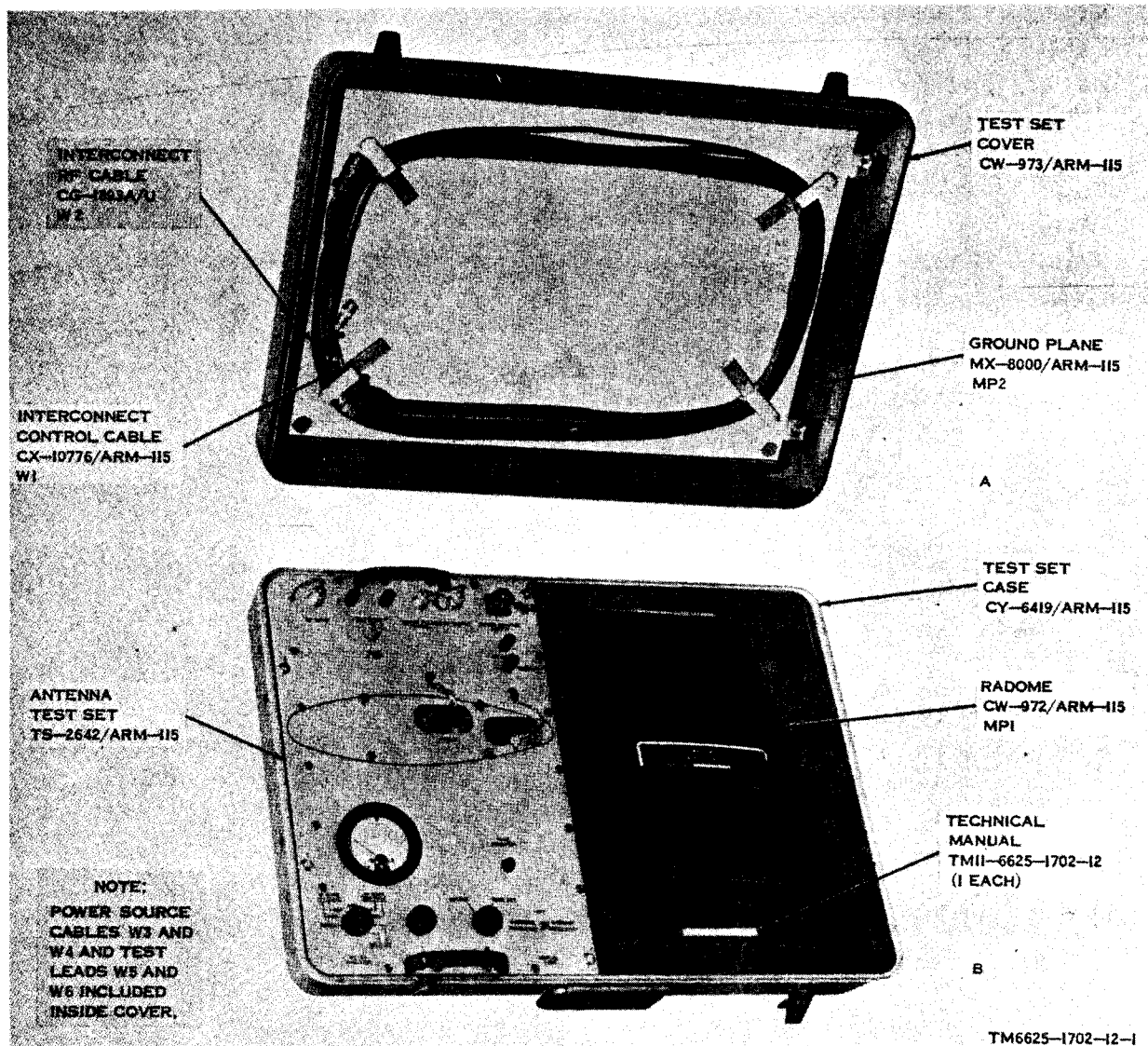


Figure 1-1. Test Set, Antenna AN/ARM-115.

CHAPTER 1

INTRODUCTION

1-1. Scope

This manual describes Test Set, Antenna AN/ARM-115 (fig. 1-1) and provides instructions for installation, operation, and operator and organizational maintenance. It includes instructions for operation, cleaning and inspection of the equipment, and replacement of parts available to the operator and organizational technician.

1-2. Indexes of Publications

a. *DA Pam 310-4.* Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

b. *DA Pam 310-7.* Refer to DA Pam 310-7 to determine whether there are modification work orders (MWO's) pertaining to the equipment.

1-3. Forms and Records

a. *Reports of Maintenance and Unsatisfactory Equipment.* Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed by TM 38-750.

b. *Report of Packaging and Handling Deficiencies.* Fill out and forward DD Form 6 (Packaging Improvement Report) as prescribed in AR 700-58/NAVSUPINST 4030.29/AFR 71-13/MCO P4030.29A, and DSAR 4145.8.

c. *Discrepancy in Shipment Report (DISREP) (SF 361).* Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as pre-

scribed in AR 55-38/NAVSUPINST 4610.33A/AFR 75-18/MCO P4610.19B and DSAR 4500.15.

1-3.1 Reporting of Errors

Report 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 Blank Forms) and forwarded direct to Commander, US Army Electronics Command, ATTN: DRSEL-MA-Q Fort Monmouth, NJ 07703.

1-3.2. Reporting Equipment Improvement Recommendations (EIR)

EIR's will be prepared using DA Form 2407, Maintenance Request. Instructions for repairing EIR's are provided in TM 38-750, The Army Maintenance Management System. EIR's should be mailed direct to Commander, US Army Electronics Command, ATTN: DRSEL-MA-Q, Fort Monmouth, NJ 07703. A reply will be furnished direct to you.

1-3.3. Administrative Storage

Administrative storage of equipment issued to and used by Army activities shall be in accordance with TM 740-90-1.

1-3.4. Destruction of Army Electronics Materiel

Destruction of Army electronics materiel to prevent enemy use shall be in accordance with TM 750-244-2.

Section II. DESCRIPTION AND DATA

1-4. Purpose and Use

a. *Purpose.* Test Set, Antenna AN/ARM-115 (fig. 1-1) is a portable test set used in conjunction with the equipment listed in paragraph 1-9 to test, troubleshoot, and align the 437S-1/1A very - high - frequency - modulated (VHF/FM) Blade Antenna (437S-1/1A antenna) (fig. 1-2). The AN/ARM-115 contains circuits and controls necessary to operate the unit under test and also provides a ground plane and a test radome (part of the AN/ARM-115 for operational tests.)

Results of tests can be read on the microammeter on the AN/ARM-115 control panel.

b. *Use.* Test Set, Antenna AN/ARM-115 is used by the technician to perform bench troubleshooting of the 437S-1/1A vhf/fm blade antenna.

1-5. Technical Characteristics

Environmental specifications:

Ambient temperature
range: