

TM 11-6625-1636-14

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**TECHNICAL MANUAL**

**OPERATOR'S ORGANIZATIONAL, DIRECT SUPPORT,  
AND GENERAL SUPPORT MAINTENANCE MANUAL**

**TEST SET, ANTENNA COUPLER  
AN/ARM-109  
NSN 6625-00-903-6385**

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**HEADQUARTERS, DEPARTMENT OF THE ARMY**

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 DEPARTMENT OF THE ARMY  
 WASHINGTON, DC, 10 June 1976**

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\*This manual supersedes so much of TM 11-6625-1636-15, 15 June 1967, as pertains to operator's, organizational, direct support, and general support maintenance.

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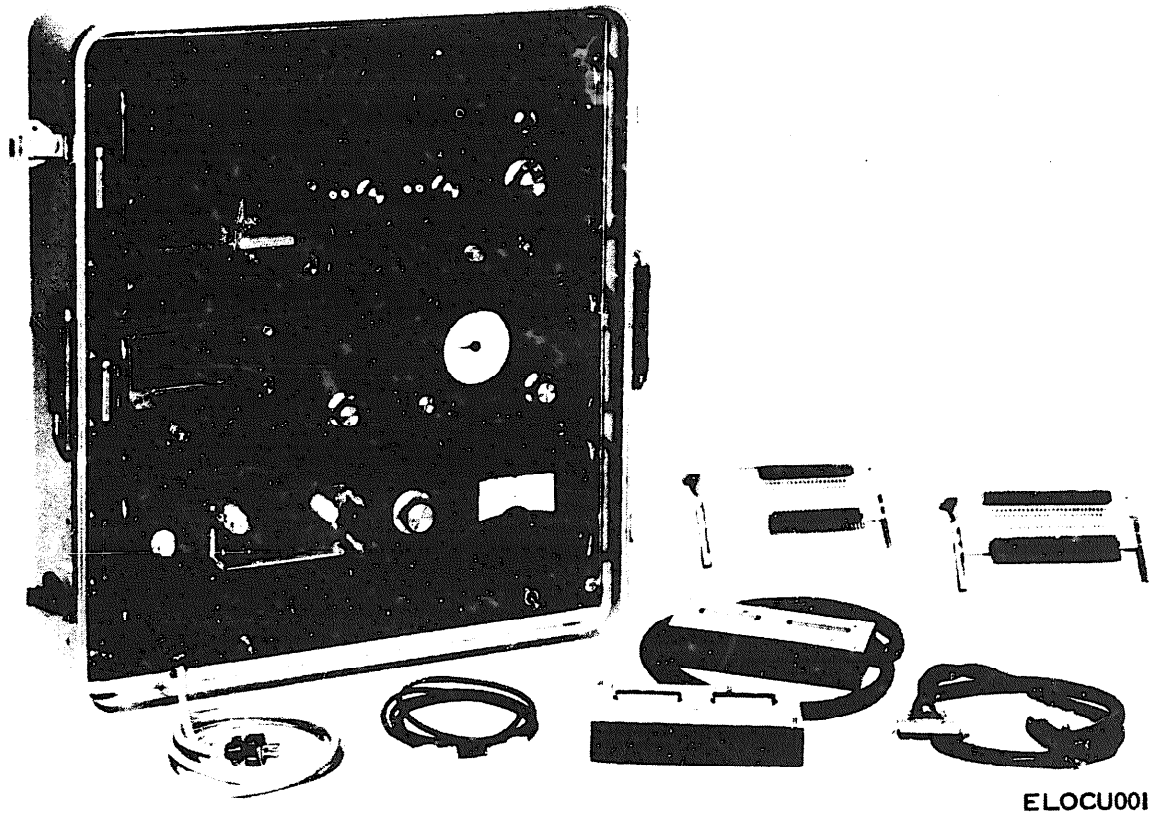


Figure 1-1. Test Set. Antenna Coupler AN/ARM-109.

## CHAPTER 1

## INTRODUCTION

## Section I. GENERAL DESCRIPTION

## 1-1. Scope

**a. This manual** provides instructions for the installation, operation, testing and mechanical overhaul of the 878L-15 Coupler Control Tester, the 878L-16 Electronic Control Amplifier Tester, and the 878L-17 Discriminator Tester. When the testers are referenced collectively, they will be referred to as the 878L-15/16/17 module tester, Test Set Antenna Coupler AN/ARM-189. The test set **completely checks** Antenna Coupler CU-1658/A (Collins 490T-1). **This manual is** presented in the following functional sections: **general description, installation, operation, principles** of operation, maintenance, parts list, and illustrations.

**b.** The lowest level at which maintenance, other than preventive maintenance, is authorized, is **general** support; therefore, there are no direct **support** maintenance procedures.

## 1-2. Indexes of Publication

**a. DA Pam 310-4.** Refer to the latest 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. Maintenance Forms, Records, and Reports

**a. Reports of Maintenance and Unsatisfactory Equipment.** Department of the Army forms and

procedures used for equipment maintenance will be those prescribed by **TM 38-750**, The Army Maintenance Management System.

**b. Report of Packaging and Handling Deficiencies** Fill out and forward DD Form 6 (Packaging Improvement Report) as prescribed in AR 735-11-2/NAVSUPINST 4440.127E/AFR 400-54/MCO 4430.3E and DSAR **4140.55**.

**c. Discrepancy in Shipment Report (DISREP)** (SF 361). Fill out **forward** Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38/NAVSUPINST 4610.33B/AFR 75-18/MCO P4610.19C and DLAR 4500.15.

## 1-4. Reporting Errors and Recommending

## Improvements

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in back of this manual direct to Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703. In either case, a reply will be furnished direct to you.

## 1-5. Military Nomenclature and Commercial

## Designations

Throughout this manual, equipment **commercial designations** are used. Some of the equipments have been assigned Military nomenclature; these are listed in table 1-1.