

TM 11-6625-467-12

**TECHNICAL MANUAL
OPERATOR'S AND ORGANIZATIONAL
MAINTENANCE MANUAL
TEST SET, ELECTRONIC CIRCUIT
PLUG-IN UNIT
AN/ARM-87
(NSN 6625-00-908-0358)**

**HEADQUARTERS, DEPARTMENT OF THE ARMY
4 FEBRUARY 1981**

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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.

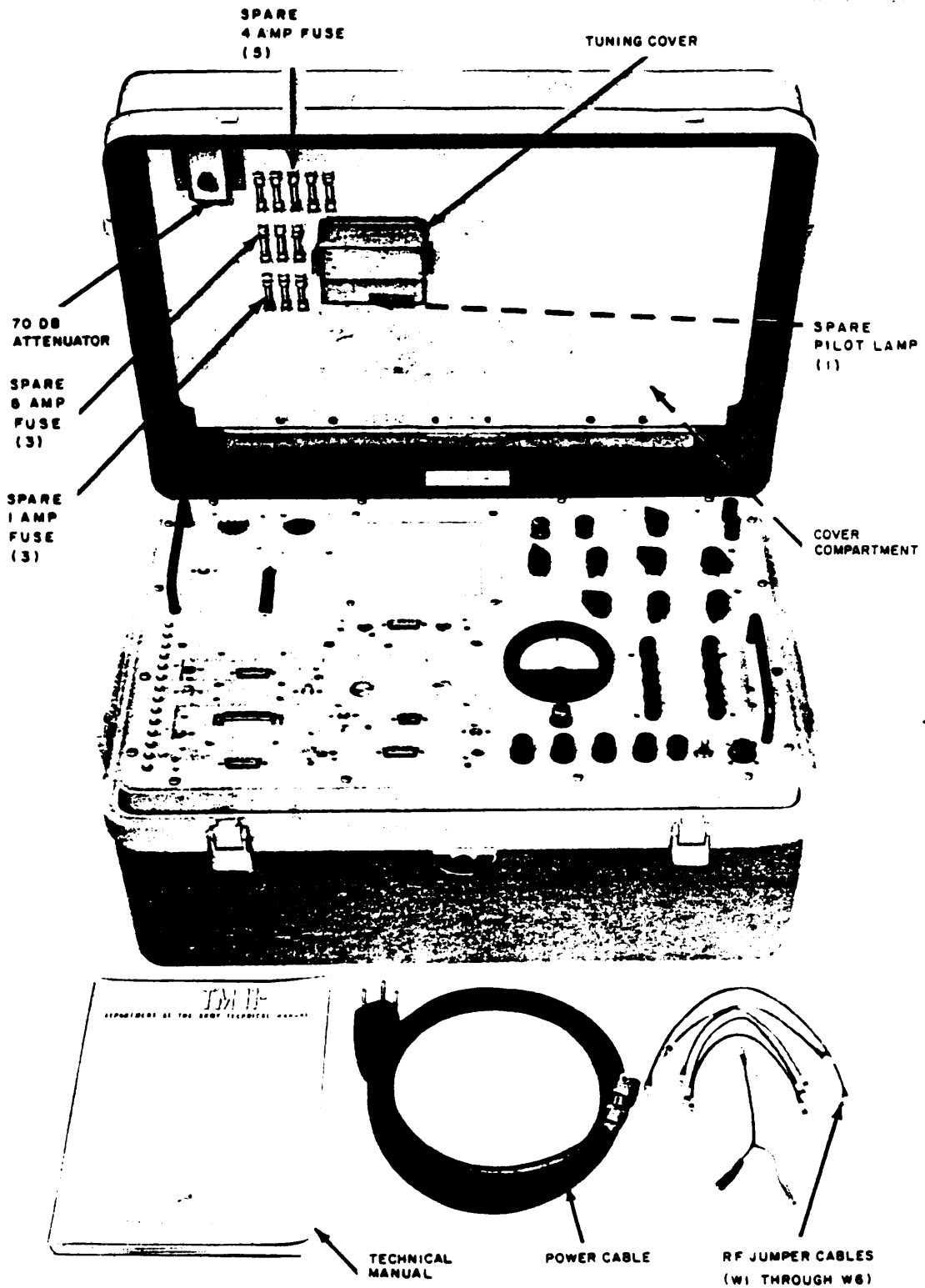
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* This manual supersedes TM 11-6625-467-12, 9 March 1965, including all changes.

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ELOHH001

Figure 1-1. Test Set, Electronic Circuit Plug-In Unit AN/ARM-87

CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

a. This manual describes Test Set, Electronic Circuit Plug-In Unit AN/ARM-87 (test set) and covers its operation and operator/crew and organizational maintenance.

b. Throughout this manual, where appropriate, references are made to other publications which cover the operation and maintenance of the test set. A complete listing of applicable reference publications is provided in appendix A.

c. The maintenance allocation chart appears in appendix D.

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. 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 Item and Packaging Discrepancies*. Fill out and forward SF 364 (Report of Discrepancy (ROD)) as prescribed in AR 735-11-2/DLAR 4140.55/NAVSUPINST 4440.127 E/AFR 400.54/MCO 4430.3E.

c. *Discrepancy in Shipment Report (DISREP) (SF*

36 l). Fill out and 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. Administrative Storage

Administrative storage of equipment issued to and used by Army activities will have preventive maintenance performed in accordance with the PMCS charts before storing. When removing the equipment from administrative storage, the PMCS should be performed to assure operational readiness. Disassembly and repacking of equipment for shipment or limited storage are covered in paragraphs 2-1 and 2-2.

1-5. Destruction of Army Electronics Materiel

Destruction of Army electronics materiel to prevent enemy use shall be in accordance with TM 760-244-2.

1-6. Reporting Equipment Improvement Recommendations (EXR)

If your test set needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design. Tell us why a procedure is hard to perform. Put it on an SF 368 (Quality Deficiency Report). Mail it to Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703. We'll send you a reply.

Section II. DESCRIPTION AND DATA

1-7. Purpose and Use

The test set (fig. 1-1) is portable and provides simulated input signals and output loads to test the modules of Radio Set AN/ARC-54. It is completely self-contained and requires no additional test equipment for operation. Power supplies within the test set provide operating power for the AN/ARC-54 modules and internal circuits. The test set has a provision for providing operating power for a complete Radio Set AN/ARC-54 and also includes a self-check feature for checking its internal

circuitry.

1-8. Description

a. The test set is 14 inches high, 22 inches wide, and 16 inches deep, and weighs 95 pounds. It contains power supplies, oscillators, loads, filters, and various circuits to simulate normal input signals and output loads of the AN/ARC-54 modules. The equipment is enclosed in a water-tight aluminum case with a snap-on cover that protects the front panel controls when the set is not in use. A