

TM 11-6625-601-12

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE MANUAL
INCLUDING REPAIR PARTS LIST

MAINTENANCE KIT, ELECTRONIC EQUIPMENT MK-733/ARC-54

This copy is a reprint which includes current
pages from Changes 1 through 3.

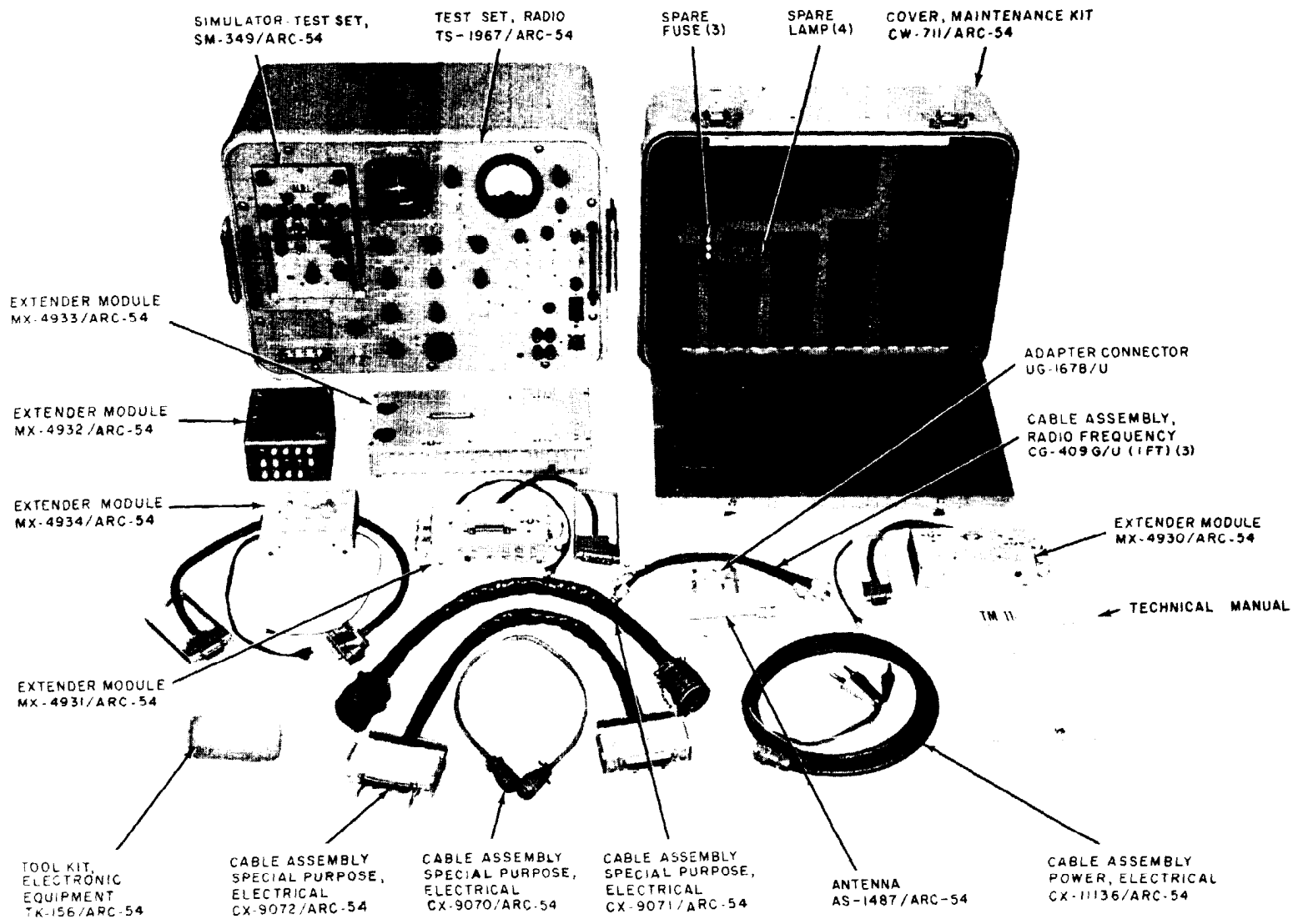
HEADQUARTERS, DEPARTMENT OF THE ARMY
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ORGANIZATIONAL MAINTENANCE MANUAL
MAINTENANCE KIT, ELECTRONIC EQUIPMENT
MK-733/ARC-54 (NSN 5821-00-901-4327)

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Figure 1-1. Maintenance Kit, Electronic Equipment MK-733/ARC-54.

CHAPTER 1 INTRODUCTION

Section I. GENERAL

1-1. Scope

This manual describes Maintenance Kit, Electronic Equipment MK-733/ARC-54 (fig. 1-1) and provides instructions for installation, operation, and operator and organizational maintenance. It includes preventive maintenance checks and services, cleaning, preservation, and replacement of parts available to the operator and organizational repairman.

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 P4030.29B, and DLAR 4145.8.

c. *Discrepancy in Shipment Report (DISREP) (SF 961).* Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed

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

1-3.1. 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 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 preparing EIR's are provided in TM 38-750, The Army Maintenance Management System (TAMMS). 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

The MK-733/ARC-54 is a portable test set that provides connections between Radio Set AN/ARC-54 and external test equipment when operational and maintenance checks are performed on the AN/ARG54. The MK-733/ARC-54 contains facilities for bench testing Receiver-Transmitter, Radio RT-348/ARC-54, Control, Radio Set G-3835/ARC-54, and Coupler, Antenna CU-942/ARC-54 (or Coupler, Antenna CU-943/ARC-54). Included in the MK-733/ARC-54 is Simulator-Test Set SM-349/ARC-54. The SM-349/ARC-54 can be substituted for the RT-348/ARC-54 in the aircraft to check out the AN/ARC-54 control functions and wiring harness.

1-5. Technical Characteristics

Environmental conditions:

Temperature:

Storage 55° C. to 71° C.
Operating -18° C. to 55° C.

Altitude:

Storage 0 to 50,000 feet.
Operating 0 to 10,000 feet.

Humidity 95 percent.

Electrical characteristics:

Power input requirements +27.5 ± 1 volt direct current

RF POWER meter:

Sensitivity 50 microamperes (ua).