

# TM 11-6625-564-12

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

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**OPERATOR AND ORGANIZATIONAL  
MAINTENANCE MANUAL:  
MAINTENANCE KIT, ELECTRONIC  
EQUIPMENT MK-731/ARC-51X**

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HEADQUARTERS  
 DEPARTMENT OF THE ARMY  
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**Operator and Organizational Maintenance Manual  
 MAINTENANCE KITS ELECTRONIC EQUIPMENT  
 MK-731/ARC-51X AND MK-731A/ARG-51X**

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# CHAPTER 1 INTRODUCTION

## Section I. GENERAL

### 1-1. Scope

Note: Maintenance Kit, Electronic Equipment MK-731A/ARC-51X is similar to Maintenance Kit MK-731/ARC-51X. Information in the manual applies to both maintenance kits unless otherwise specified.

This manual describes Maintenance Kit, Electronic Equipment MK-731/ARC-51X and MK-731A/ARC-51X (referred to as the maintenance kit) (fig. 1-1) and covers its operation and organizational maintenance. The maintenance includes preventive maintenance checks and services, cleaning, preservation, and replacement of indicator lamps.

### 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 (Report of Packaging and Handling Deficiencies) as prescribed in AR 700-58/NAVSUP PUB 378/AFR 71-4/MCO P4030.29, and DSAR 4145.8.

*c. Discrepancy in Shipment Report (DISREP) (SF 361).* Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38/NAVSUPINST 4610.33/AFM 75-18/MCO P4610.19A, and DSAR 4500.15.

### 1-3.1. Reporting of Equipments Publication Improvements

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: AMSEL-MA-A, Fort Monmouth, NJ 07703.

## Section II. DESCRIPTION AND DATA

### 1-4. Purpose and Use

*a. Purpose.* Maintenance kit (fig. 1-1) provides a means for troubleshooting and aligning of Radio Set AN/ARC-51X and Radio Set AN/ARC-51BX. The maintenance kit is composed of two major components, as follows:

(1) Test Set, Radio TS-1962/ARC-51X, which provides facilities for connecting, switching, changing frequency, and monitoring the input signals to, or the output signals from, Receiver-Transmitter, Radio RT-702/ARC-51X, Receiver-Transmitter, Radio RT-742/ARC-51BX, or Simulator-Test Set, Radio SM-348/ARC-51X and

SM-348A/ARC-51X.

(2) Simulator-Test Set, Radio SM-348/ARC-51X or SM-348A/ARC-51X, which is substituted for the Receiver-Transmitter, Radio RT-702/ARC-51X or the Receiver-Transmitter, Radio RT-742/ARC-51BX in the aircraft to facilitate troubleshooting aircraft wiring and associated communication units.

*b. Use.* The maintenance kit is used by the repairman to perform in-aircraft troubleshooting of the aircraft wiring, bench troubleshooting, and alignment of the RT-702/ARC-51X, or RT-742/ARC-51BX.