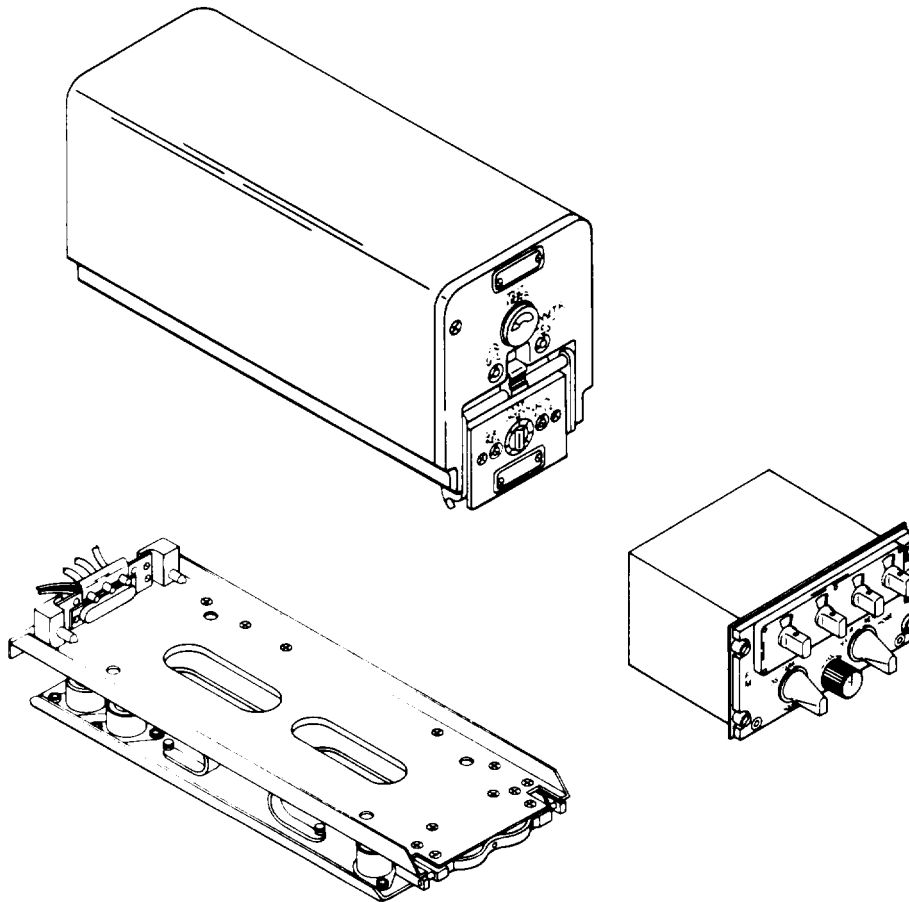


TECHNICAL MANUAL

OPERATOR'S AND ORGANIZATIONAL MAINTENANCE MANUAL



TECHNICAL PRINCIPLES
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CONTROLS AND INDICATORS
PAGE 2-1

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CHART (MAC)
PAGE B-1

RADIO SET AN/ARC-131 (NSN 5821-00-937-4686)

Technical Manual

No. 11-5820-670-12

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 28 May 1985

**Operator's and Organizational
Maintenance Manual**

**RADIO SET AN/ARC-131
(NSN 5821-00-937-4686)**

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 the back of this manual direct to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-ME-MP, Fort Monmouth, New Jersey 07703-5007. A reply will be furnished direct to you.

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*This manual supersedes TM 11-5820-670-12, 5 July 1974, including all changes.

HOW TO USE THIS MANUAL

This manual is designed to help you operate as well as maintain (both at the operator and organizational level) Radio Set AN/ARC-131.

A front cover index is provided for quick reference to important information contained in this manual. Each item appearing on the front cover is boxed and identified by topic, with the page number where the information is located.

Paragraphs in this manual are numbered by chapter and order of appearance within a chapter. A subject index appears at the beginning of each section to help you find the exact paragraph you are looking for.

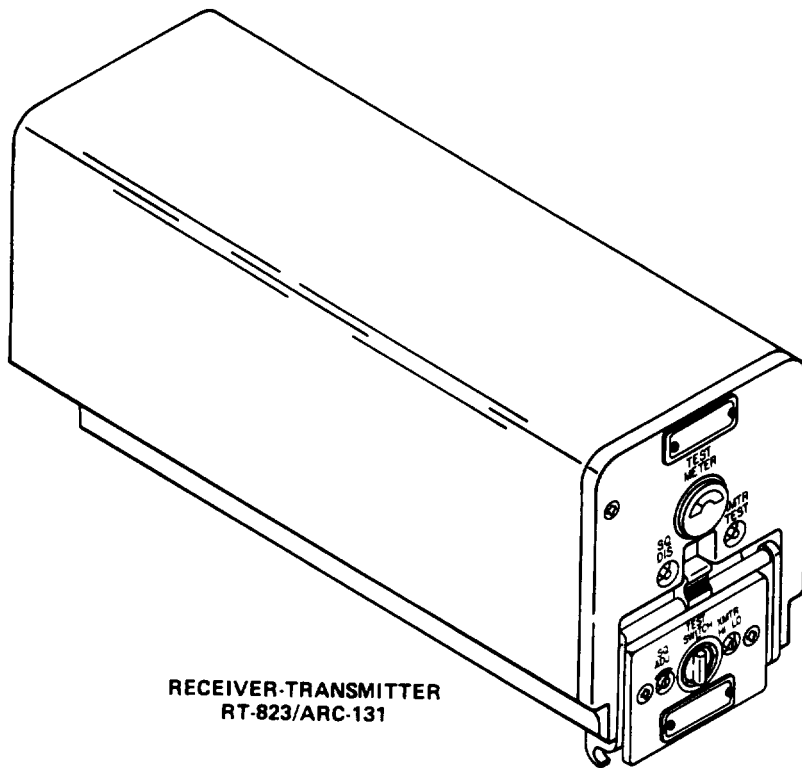
Measurements in this manual are given in both US standard and metric units.

There are warnings located at the beginning of this manual. Before doing maintenance on the equipment, learn the warnings and always follow safety procedures and precautions.

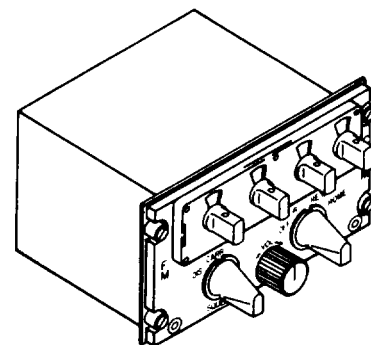
Step by step procedures with illustrations will give you all the necessary information needed to maintain the equipment. The steps must be followed in exact sequence. Do not attempt any shortcuts.

Instructions for performing PMCS tasks are located in paragraphs 3-5, 3-6, and 3-7.

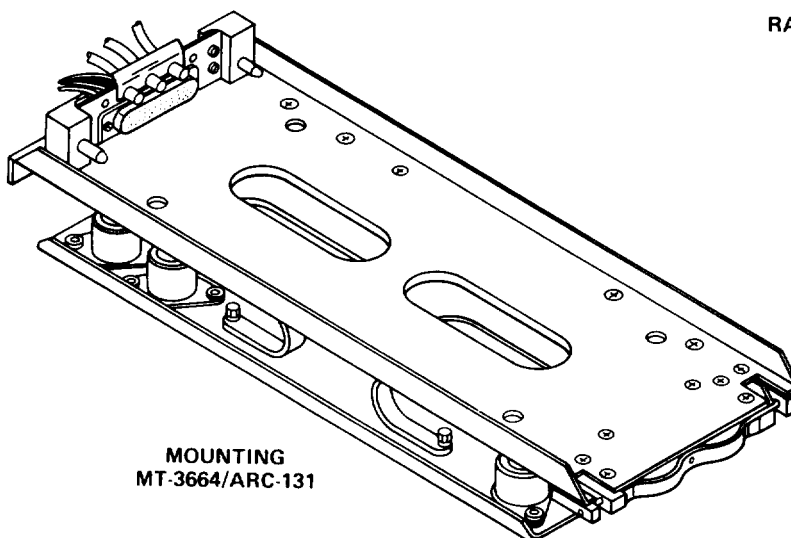
A list of abbreviations and definitions of unusual terms can be found for quick reference. in the glossary at the rear of this manual.



RECEIVER-TRANSMITTER
RT-823/ARC-131



RADIO SET CONTROL
C-7088/ARC-131



MOUNTING
MT-3664/ARC-131

RADIO SET AN/ARC-131

EL7RM001

CHAPTER 1

INTRODUCTION

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OVERVIEW

This chapter supplies both general and specific information about Radio Set AN/ARC-131 and acquaints the user with the equipment's purpose, basic principles of operation, and characteristics. Also furnished is information regarding proper forms used to document equipment maintenance and status, packaging and handling deficiencies, and discrepancies in shipment.

Section I GENERAL INFORMATION

Subject	Para	Page
Scope	1-1	1-1
Maintenance Forms, Records, and Reports	1-2	1-1
Reporting Equipment Improvement Recommendations (EAR)	1-3	1-2
Consolidated Index of Army Publications and Blank Forms	1-4	1-2
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Administrative Storage	1-6	1-2
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Safety, Care, and Handling	1-8	1-3

1-1. SCOPE.

Type of Manual: Operator's and Organizational Maintenance.

Equipment Name and Model Number: Radio Set AN/ARC-131.

Purpose of Equipment: The AN/ARC-131 is a lightweight, airborne radio set that provides two-way communications between air-to air and air-to-ground stations within the tactical frequency-modulation (fro) band of 30 to 75.95 mega Hertz (MHz). The radio set also provides the pilot with retransmission capability as well as fm and continuous wave (cw) homing.

1-2. MAINTENANCE FORMS, RECORDS, AND REPORTS.

REPORT OF MAINTENANCE AND UNSATISFACTORY EQUIPMENT

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA Pam 738-750 as contained in Maintenance Management Update.

REPORT OF PACKAGING AND HANDLING DEFICIENCIES

Fill out and forward SF 364 (Report of Discrepancy (ROD)) as prescribed in AR 735-11-2/DLAR 4140.55/NAVMATINST 4355.73A/AFR 400-54/MCO 4430. 3F.