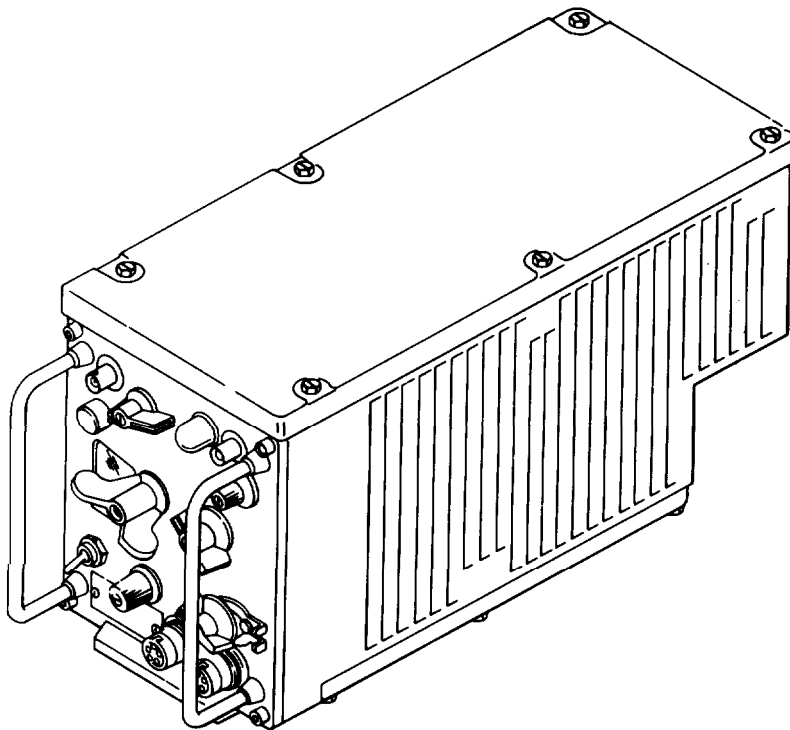


ARMY TM 11-5820-401-34-3 NAVY NAVELEX 0967-LP-432-3060

TECHNICAL MANUAL

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL



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RADIO SETS

AN/VRC-12 (NSN 5820-00-223-7412), AN/VRC-44
(NSN 5820-00-223-7417), AN/VRC-47 (NSN 5820-00-223-7434),
AND AN/VRC-48 (NSN 5820-00-223-7435)

RECEIVERS

RADIO R-442/VRC AND R-442A/VRC (NSN 5820-00-892-0624)

TECHNICAL MANUAL
NO. 11-5820 -401-34-3
NAVELEX 0967-LP-432-3060

DEPARTMENTS OF THE ARMY AND NAVY
Washington, DC, 16 April 1984

**Direct Support and General Support
Maintenance Manual**

**RADIO SETS: AN/VRC-12 (NSN 5820-00-223-7412),
AN/VRC-44 (NSN 5820-00-223-7417), AN/VRC-47
(NSN 5820-00-223-7434), AND AN/VRC-48 (NSN 5820-00-223-7435)**

**RECEIVERS, RADIO R-442/VRC
AND R-442A/VRC (NSN 5820-00-892-0624)**

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: DRSEL-ME-MP, Fort Monmouth, New Jersey 07703. For Navy, mail comments to the Commander, Naval Electronics Systems Command, ATTN: ELEX 8122, Washington, DC 20360. In either case, a reply will be furnished direct to you.

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*This manual, together with, TM 11-5820-401-34-2-1/NAVELEX 0967-LP-432-3030, 16 April 1984 and TM 11-5820-401-34-2-2/NAVELEX 0967-LP-432-3060, 16 April 1984 supersedes TB 11-5820-401-34-1/EE150-JA-MMI-DID/E154RT246, 23 February 1984 and TM 11-5820-401-34-3/NAVELEX 0967-LP-432-3030, 10 May 1976, This manual also supersedes TM 11-5820-401-10 LD-5, LD-6, LD-7, and LD-8, 1 June 1978, and TM 11-5820-401-34 LD-2, September 1976.

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HOW TO USE THIS MANUAL

This manual is designed to help you maintain the Receiver, Radio R-442(*)/VRC used in the AN/VRC-12 series radio sets.

The table of contents on the front cover is provided for quick reference to important information. There is also an alphabetical index in the back of the book to help locate specific information.

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

Read all preliminary information found at the beginning of each procedure. It contains important directions which must be followed to perform the task correctly.

Warning pages are located in the front of this manual. You should learn the warnings before doing maintenance on the equipment.

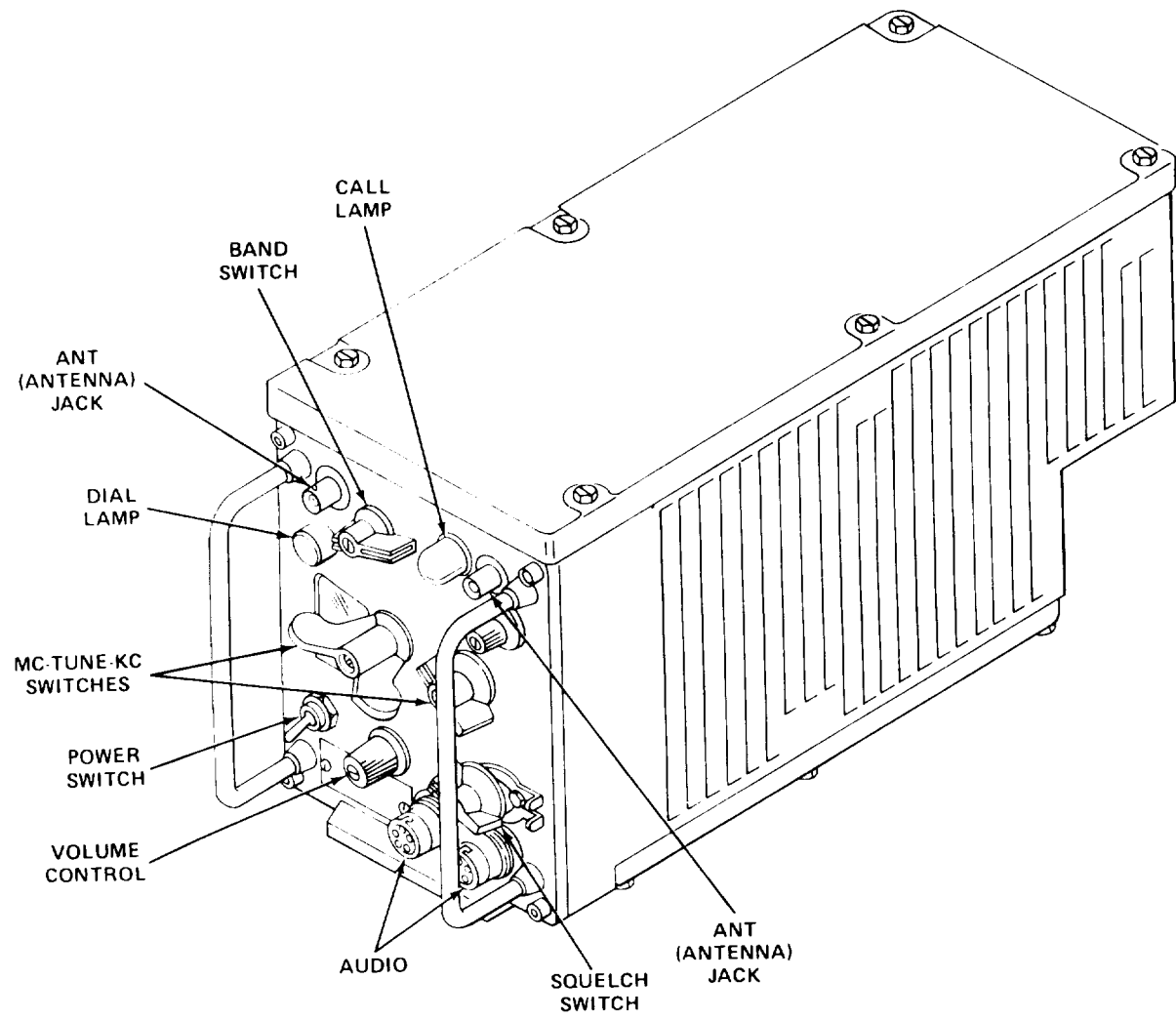
Paragraphs in this manual are numbered by chapter and order of appearance within a chapter. A subject index appears at the beginning of each chapter, breaking the chapter into sections. A more specific subject index is located at the beginning of each section to help you find the exact paragraph you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

There are three chapters covering direct support performance tests, troubleshooting, and alignment procedures. Each chapter shows how to perform these tasks using a different set of test equipment; that is:

1. Chapter 3 contains performance and troubleshooting procedures, using Maintenance Kit MK-1978/VRC and discrete test equipment (TMDE).
2. Chapter 4 contains performance and troubleshooting procedures, using Test Set AN/GRM-114A.
3. Chapter 5 contains performance and troubleshooting procedures, using Test Cable No. 1 and discrete test equipment (TMDE).

The procedures you follow will depend upon the test equipment at your disposal.

For repair parts and tools required to support direct support and general support maintenance, refer to TM 11-5820-401-34P-3.



RECEIVER R-442(*)/VRC

EL4GQ237

CHAPTER 1
INTRODUCTION

Subject	Section	Page
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OVERVIEW

This chapter will familiarize you with Receivers, Radio R-442/VRC and R-442A/VRC. It contains general information about the equipment, references to pertinent forms and publications, equipment specifications, and principles of operation.

Section I GENERAL INFORMATION

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Destruction of Army Electronics Materiel to Prevent Enemy Use	1-5	1-2
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1-1. SCOPE.

Type of Manual: Direct support and general support maintenance manual,

Equipment Names and Model Numbers: Receivers, Radio R-442/VRC and R-442A/VRC, part of Radio Sets AN/VRC-12, AN/VRC-44, AN/VRC-47, and AN/VRC-48.

Purpose of Equipment: To provide short-range, frequency-modulated (fm) reception on the 30.00- to 75.95-MHZ frequency range.

1-2. CONSOLIDATED INDEX OF ARMY PUBLICATIONS AND BLANK FORMS.

Refer to the latest issue of DA Pam 310-1 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.