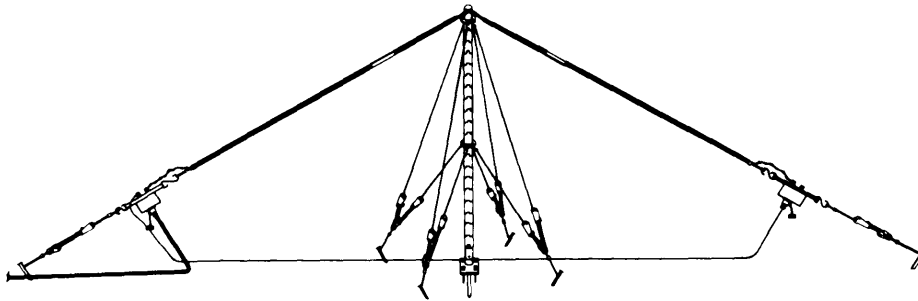

TECHNICAL MANUAL

OPERATOR'S AND ORGANIZATIONAL
MAINTENANCE MANUAL



ANTENNA GROUP OE-303/GRC
(NSN 5985-01-152-5845)

EQUIPMENT
DESCRIPTION

PRINCIPLES
OF OPERATION

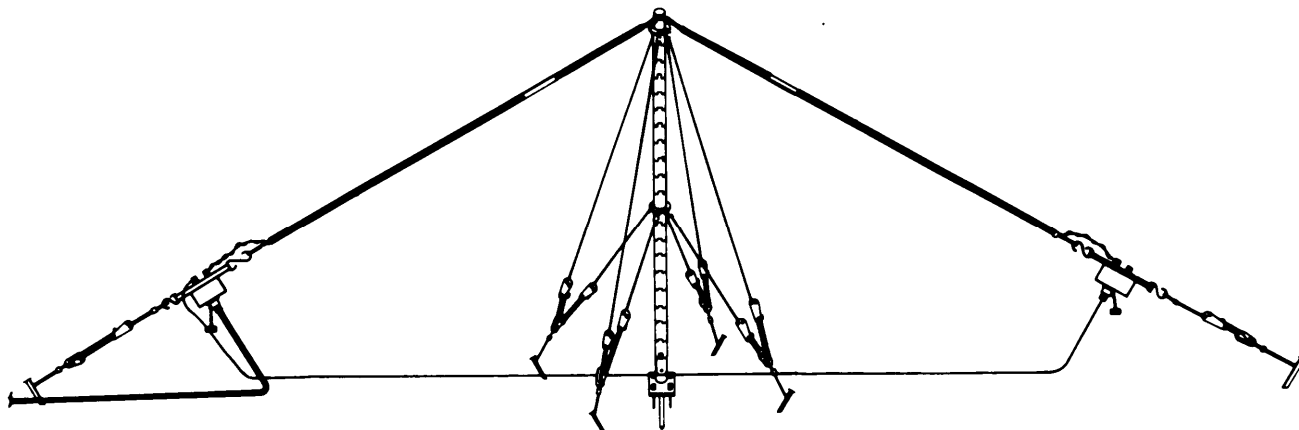
OPERATOR'S
CONTROLS

ANTENNA
ERECTION

PMCS

OPERATION

TROUBLESHOOTING



DANGER
ANTENNA AREA
BEWARE OF FALLING ICE

DANGER
ANTENNA AREA
OFF LIMITS TO ALL
PERSONNEL AND VEHICLES

DANGER
AUTHORIZED PERSONNEL
ONLY
TRIPPING HAZARD
AND OVERHEAD HAZARD

BEFORE LEAVING YOUR BASE, MAKE SURE YOU HAVE:

ENOUGH WARNING SIGNS.

EXTRA STREAMERS OR APPROVED MARKERS.

A SUPPLY OF SPECIAL ANCHORS TO USE IN THE TYPE OF SOIL YOU MAY FIND IN YOUR AREA OF OPERATIONS.

EXTRA GUY ROPES OR APPROVED SUBSTITUTES.

HOW TO USE THIS MANUAL

This technical manual includes a cover index to assist you in locating the information you need to operate and maintain Antenna Group OE-303/GRC.

In addition, this manual is also divided into chapters, sections and paragraphs which are numbered sequentially.

Instructions on installation and use of this antenna equipment are presented in a detailed sequence. **DO NOT ATTEMPT ANY SHORT CUTS** in installing and using this antenna equipment. **FOLLOW THE INSTRUCTIONS IN THIS MANUAL.**

This antenna equipment has been designed to work with certain radio sets in a certain frequency range. **DO NOT ATTEMPT TO REDESIGN THIS ANTENNA.** Follow the specific **DIMENSIONS** and **MEASUREMENTS** in this manual.

TECHNICAL MANUAL
NO. 11-5985-370-12

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 19 July 1984

**OPERATOR'S AND ORGANIZATIONAL MAINTENANCE MANUAL
FOR ANTENNA GROUP OE-303/GRC
(NSN 5985-01-152-5845)**

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.

In either case, a reply will be furnished direct to you.

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CHAPTER 1

INTRODUCTION

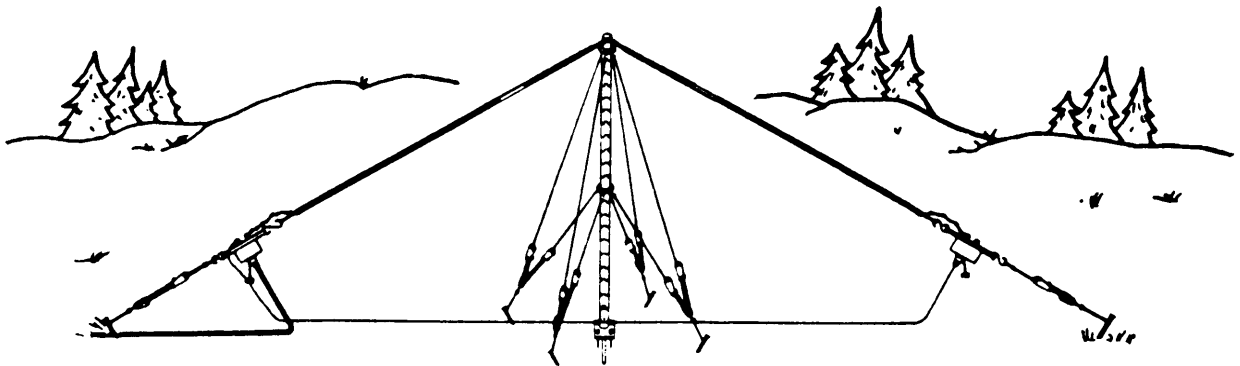
SECTION I. GENERAL INFORMATION

1-1. SCOPE

This technical manual covers Antenna Group OE-303/GRC.

Instructions are given for:

- installation (2 person team)
- operation.
- troubleshooting.
- operator/crew maintenance.
- organizational maintenance.



Antenna Group OE-303/GRC consists of **3** major items:

- Antenna **AS-3490/GRC**.
- Radio Frequency Cable Assembly **CG-1889 C/U**.
- Mast Assembly **AB-1244A/GRC**.

Antenna Group OE-303/GRC has the following characteristics:

- rugged.
- lightweight.
- directional radiation.
- no adjustments required.
- easy installation.

It cannot be overemphasized that this antenna must be **used with caution**. It occupies a large area, Both foot and vehicular **traffic must be controlled** in the antenna area. The **CAUTIONS** and **WARNINGS** in the manual give you specific instructions on how to control traffic and to prevent accidents.