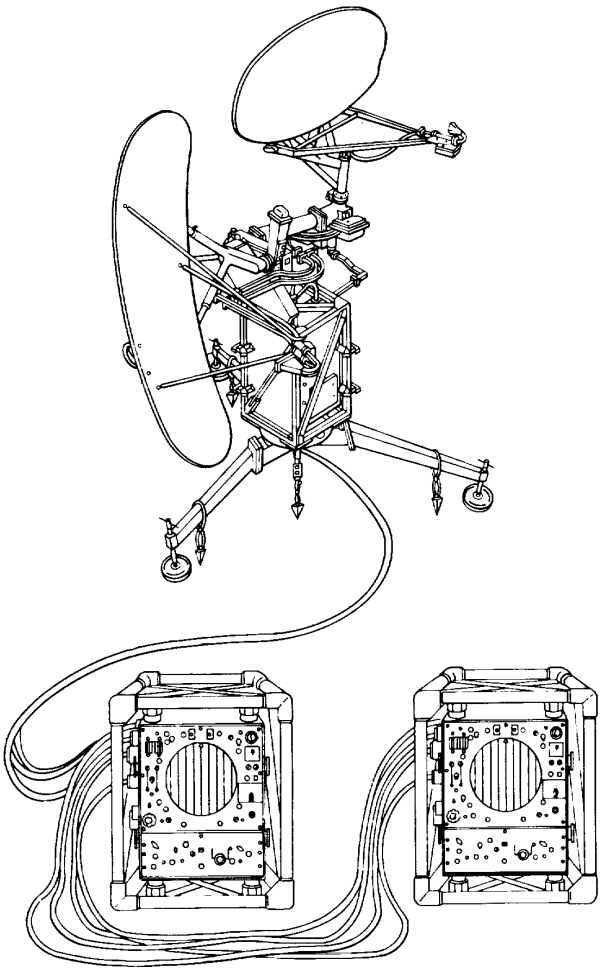
OPERATOR'S AND ORGANIZATIONAL MAINTENANCE MANUAL



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RADAR SET
ANITPN-18A (NSN 5840-01-070-9415)

DEPARTMENT OF THE ARMY

15 JANUARY 1986

Technical Manual

No. 11-5840-281-12-1

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 15 January 1986

OPERATOR'S AND ORGANIZATIONAL MAINTENANCE MANUAL

RADAR SET AN/TPN-18A (NSN 5840-01-070-9415)

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 11-5840-281-12-1, dated 12 September 1980, in its entirety.

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HOW TO USE THIS MANUAL

This manual is designed to help you operate and maintain Radar Set ANITPN-18A. The front cover table of contents is provided for quick reference to important information. There is also an Index located in the final pages for use in locating specific items of information.

Measurements in this manual are given in both US standard and metric units. A metric to US standard conversion chart can be found in the back of this manual.

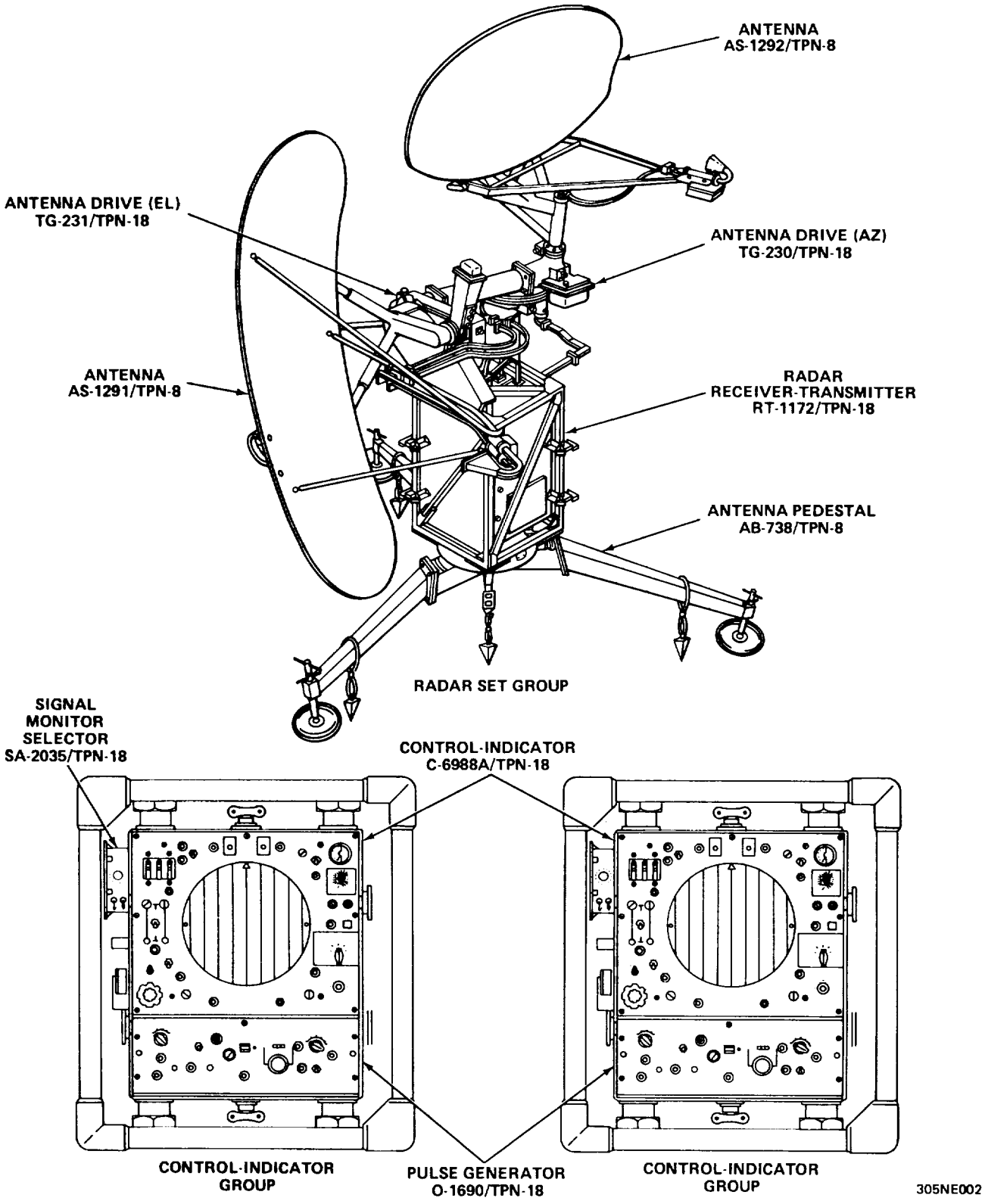
Warning pages are located in the front of this manual. You should learn the warnings before operating or doing maintenance on the equipment.

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 listing sections that are included in that chapter. A more specific subject index is located at the beginning of each section to help you find the exact paragraph you're looking for.

Read all preliminary information found at the beginning of each task. It has Important Information and safety instructions you must follow before beginning the task.

NOTE

All ranges are given in nautical miles (nmi) (6,080 ft).


ANTENNA
AS-1292/TPN-8
ANTENNA DRIVE (EL)
TG-231/TPN-18
ANTENNA DRIVE (AZ)
TG-230/TPN-18
ANTENNA
AS-1291/TPN-8
RADAR
RECEIVER-TRANSMITTER
RT-1172/TPN-18
ANTENNA PEDESTAL
AB-738/TPN-8
RADAR SET GROUP
SIGNAL
MONITOR
SELECTOR
SA-2035/TPN-18
CONTROL-INDICATOR
C-6988A/TPN-18
CONTROL-INDICATOR
GROUP
PULSE GENERATOR
O-1690/TPN-18
CONTROL-INDICATOR
GROUP
305NE002

CHAPTER 1

INTRODUCTION

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Section I GENERAL INFORMATION

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1-1. SCOPE.

Type of Manual: Operator's and Organizational Maintenance.

Equipment Name and Model Number: Radar Set ANITPN-18A

Purpose of Equipment: Radar Set AN/TPN-18A is a lightweight, helicopter-transportable radar set designed for use during all weather conditions. The radar set is used at forward airstrips and heliports to provide a ground controlled approach for aircraft.

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 concerning the equipment.

1-3. MAINTENANCE FORMS, RECORDS, AND REPORTS.

REPORTS 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.

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 4610.33C/AFR 75-181MCO P4610.19D/DLAR 4500.15.1-1