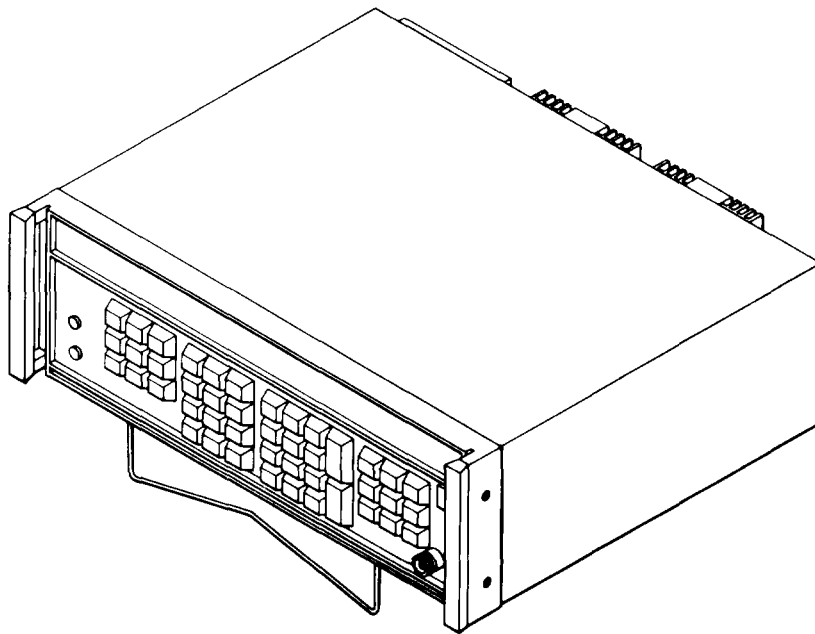


**TECHNICAL MANUAL**

**GENERAL SUPPORT  
MAINTENANCE**



**PERFORMANCE TESTS  
PAGE 2-1**

**TROUBLESHOOTING  
PAGE 2-17**

**ALINEMENT AND ADJUSTMENT  
PROCEDURES  
PAGE 2-31**

**MAINTENANCE  
PROCEDURES  
PAGE 2-45**

**TEST SET, RECEIVER AN/ARM-180  
(NSN 6625-01-041-4161)**

---

**HEADQUARTERS, DEPARTMENT OF THE ARMY**

**9 JULY 1985**

Technical Manual  
 No. 11-6625-2975-40

HEADQUARTERS  
 DEPARTMENT OF THE ARMY  
 Washington, DC, 9 July 1985

General Support  
 Maintenance Manual

TEST SET, RECEIVER AN/ARM-180  
 (NSN 6625-01-041-4161)

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.

	Page
HOW TO USE THIS MANUAL .....	ii
<b>CHAPTER 1</b> INTRODUCTION .....	<b>1-1</b>
<b>Section I</b> General information .....	<b>1-1</b>
<b>II</b> Equipment Description and Data .....	<b>1-3</b>
<b>III</b> Principles of Operation .....	<b>1-6</b>
<b>CHAPTER 2</b> MAINTENANCE .....	<b>2-1</b>
<b>Section I</b> Repair Parts, Special Tools, TMDE, and Support	
Equipment .....	<b>2-1</b>
<b>II</b> Performance Tests .....	<b>2-1</b>
<b>III</b> Troubleshooting .....	<b>2-17</b>
<b>IV</b> Alignment and Adjustment Procedures .....	<b>2-31</b>
<b>V</b> General Support Maintenance Procedures .....	<b>2-45</b>
<b>APPENDIX A</b> REFERENCES .....	<b>A-1</b>
<b>B</b> EXPENDABLE SUPPLIES AND MATERIALS LIST .....	<b>B-1</b>
<b>GLOSSARY</b> .....	<b>Glossary 1</b>
<b>INDEX</b> .....	<b>Index 1</b>
<b>FOLDOUTS</b> .....	Located in back of manual

● This manual, together with TM 11-6625-2975-12, 27 August 1984 and TM 11 -6625-2975-24P, 19 July 1984, supersedes TM 11-6625-2975- 14&P, 30 December 1980.

## **HOW TO USE THIS MANUAL**

This manual is designed to help you maintain Test Set, Receiver AN/ARM-180.

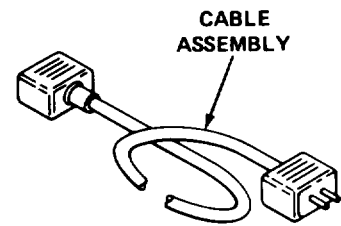
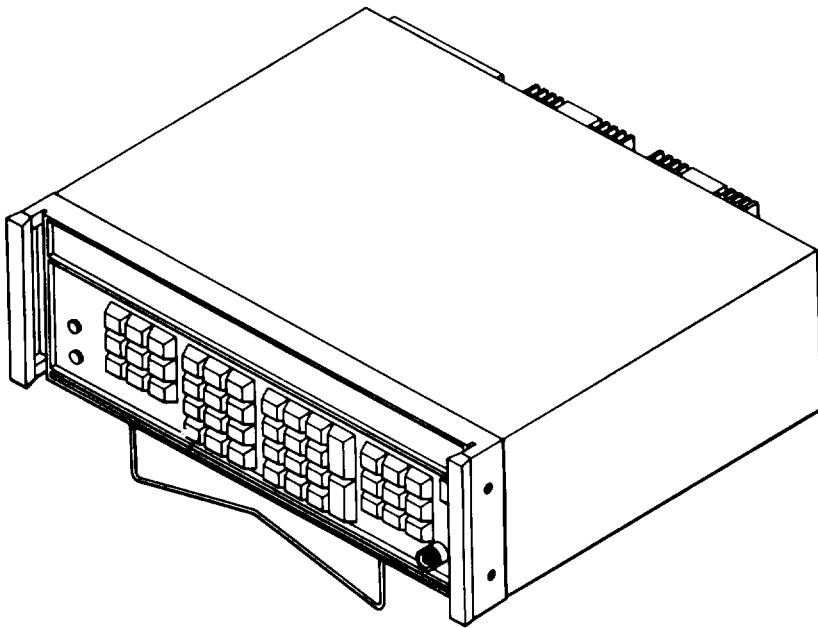
The boxed entries on the front cover are provided for quick reference to important information. There is also an alphabetical index in the rear of the book to help locate specific information.

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 information which must be followed to perform tasks 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.



EL9LY00

TEST SET, RECEIVER AN/ARM-180

# CHAPTER 1

## INTRODUCTION

Subject	Section	Page
General Information .....	I	1-1
Equipment Description and Data .....	II	1-3
Principles of Operation .....	III	1-6

### OVERVIEW

This manual contains principles of operation, maintenance procedures, and troubleshooting procedures at the general support level for Test Set, Receiver AN/ARM-180.

### Section I GENERAL INFORMATION

Subject	Para	Page
Scope .....	1-1	1-1
Consolidated Index of Army Publications and Blank Forms .....	1-2	1-1
Maintenance Forms, Records, and Reports .....	1-3	1-1
Destruction of Army Electronics Materiel .....	1-4	1-2
Calibration .....	1-5	1-2
Administrative Storage .....	1-6	1-2
Nomenclature Cross-Reference List .....	1-7	1-2
Reporting Equipment Improvement Recommendations (EIR) .....	1-8	1-2

#### 1-1. SCOPE.

Type of Manual: General support maintenance manual.

Equipment Name and Model Number: Test Set, Receiver AN/ARM-180.

Purpose of Equipment: Test and troubleshoot VOR, ILS, and marker beacon navigation receivers.

#### 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.

#### 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.

1-3. MAINTENANCE FORMS, RECORDS AND REPORTS. (CONT)

DISCREPANCY IN SHIPMENT REPORT (DISREP) (SF361)

Fill out and forward Discrepancy In shipment Report (DISREP) (SF 361) as prescribed In AR55-38/NAVSUPINST 4610.33C/AFR 75-18/MCO P4610.19D/DLAR 4500.15.

1-4. DESTRUCTION OF ARMY ELECTRONICS MATERIEL.

Destruction of Army electronics materiel to prevent enemy use shall be in accordance with TM 750-244-2,

1-5. CALIBRATION.

Refer to TB 9-6625-2076-35 for calibration procedures.

1-6. ADMINISTRATIVE STORAGE.

Administrative storage of equipment issued to and used by Army activities will have preventive maintenance performed in accordance to PMCS charts before storing, Refer to TM 11-6625.2975-12.

1-7. NOMENCLATURE CROSS-REFERENCE LIST.

This list contains common names used throughout this manual In place of official nomenclature.

COMMON NAME	OFFICIAL NOMENCLATURE
test set	Test Set, Receiver AN/ARM-180

1-8. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR).

if your test set needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design. Put it on an SF 368 (Quality Deficiency Report). Mail it 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.

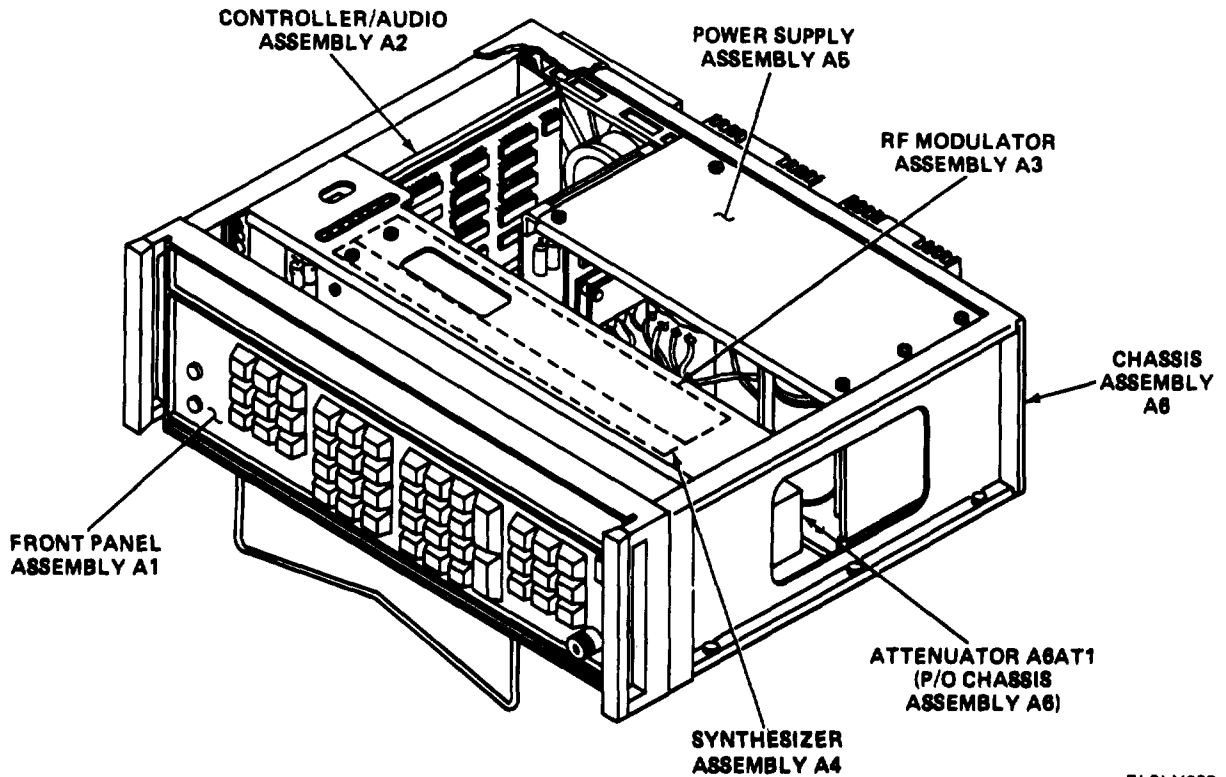
Section II EQUIPMENT DESCRIPTION AND DATA

Subject	Para	Page
Equipment Characteristics, Capabilities, and Features . . . . .	1-9	1-3
Location and Description of Major Components . . . . .	1-10	1-3
Equipment Data . . . . .	1-11	1.4
Safety, Care, and Handling . . . . .	1-12	1-6

1-9. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES.

For characteristics, capabilities, and features of the test set, refer to TM 11-6625-2975-12.

1-10. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS.



EL9LY003

1. Front Panel Assembly A1, Located In front of test set, provides the operator with means of communicating with equipment, Contains keyboard for entering Instructions and displays for Indicating test parameters,
2. Controller/Audio Assembly A2. Located In left side of test set, contains a microprocessor that handles all Instructions to equipment. Houses memory circuits and an audio generator,