

TECHNICAL MANUAL
OPERATOR'S MANUAL
RADAR SETS
AN/TPS-25, AN/TPS-25A AND
AN/TPS-25(X E-2)
(NSN 5840-00-082-4128)

**This copy is a reprint which includes current
pages from Change 1.**

HEADQUARTERS, DEPARTMENT OF THE ARMY

October 31, 1985

Technical Manual }
No. 11-5840-217-10 }

HEADQUARTERS,
DEPARTMENT OF THE ARMY
Washington, DC, 31 October 1985

OPERATOR'S MANUAL

RADAR SET AN/TPS-25, AN/TPS-25A

AND AN/TPS-25(XE-2)

(NSN 5840-00-082-4128)

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 back of this manual direct to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSE-ME-MP, Fort Monmouth, New Jersey 07703-5000.

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

TABLE OF CONTENTS

Paragraph	Page		
CHAPTER	1. INTRODUCTION		
Section	I. General	1-1	1-1
	II. Description and data.....	1-7	1-3
	III. Basic principles	1-26	1-27
CHAPTER	2. INSTALLATION		
Section	I. Service upon receipt of Radar Set AN/TPS-25.....	2-1	2-1
	II. Installation procedure	2-6	2-20
	II. Installation alinement and adjustment procedure	2-29	2-72
CHAPTER	3. OPERATING INSTRUCTIONS		
Section	I. Operator's controls and instruments.....	3-1	3-1
	II. Operation under usual conditions	3-11	3-10
	III. Operation under unusual conditions	3-18	3-18
	IV. Counter countermeasure operation	3-23	3-19
CHAPTER	4. OPERATOR'S MAINTENANCE	4-1	4-1
CHAPTER	5. CONVERSION FOR TRAVEL AND DEMOLITION		
Section	I. Conversion for travel.....	5-1	5-1
	II. Demolition of materiel to prevent enemy use	5-17	5-9
APPENDIX	A. REFERENCES		A-1
	B. ADDITIONAL AUTHORIZATION LIST		B-1
	C. EXPENDABLE SUPPLIES AND MATERIALS LIST.....		C-1
GLOSSARY			G-1
INDEX			I-1

This manual supersedes TM 11-5840-217-10, 10 June 1959, Including all changes.

Change 1 i/(ii blank)

CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

This manual describes Radar Set AN/TPS-25, AN/TPS-25A and AN/TPS-25(XE-2), and covers its initial, operation, operator's maintenance, preparation for short distance movement, and destruction of the equipment. It includes operation under usual and unusual conditions, cleaning and inspecting the equipment, and replacement of parts available to first echelon maintenance. The maintenance allocation chart will appear in the second echelon portion of the technical manual.

NOTE

Official nomenclature that includes (*) is used to designate all models of the equipment covered in this manual.

1-2 Maintenance Forms, Records, and Reports

a. 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.

b. 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 4355.73B/AFR 400-54/MCO 4430.3H.

c. 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 75-18/MCO P4610.19D/DLAR 4500.165.

1-3. Destruction of Army Materiel to Prevent**Enemy Use**

Instructions for destruction of Army electronics materiel to prevent enemy use shall be in accordance with TM 750-244-2.

1-4. Administrative Storage

Administrative storage of equipment issued to and used by Army activities will have preventive maintenance performed in accordance with the PMCS charts before storing. When removing the equipment from administrative storage the PMCS should be performed to assure operational readiness. Disassembly and repacking of equipment for shipment or limited storage are covered in TM 740-90-1.

1-5. Consolidated Index of Army Publications and Blank Forms

Refer to the latest issue of DA Pam 25-30 to determine whether there are new editions, changes or additional publications pertaining to the equipment.

1-6. Reporting Equipment Improvement Recommendations (EIR)

If your equipment 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 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-PA-MA-D, Fort Monmouth, NJ 07703-5000. We'll send you a reply.

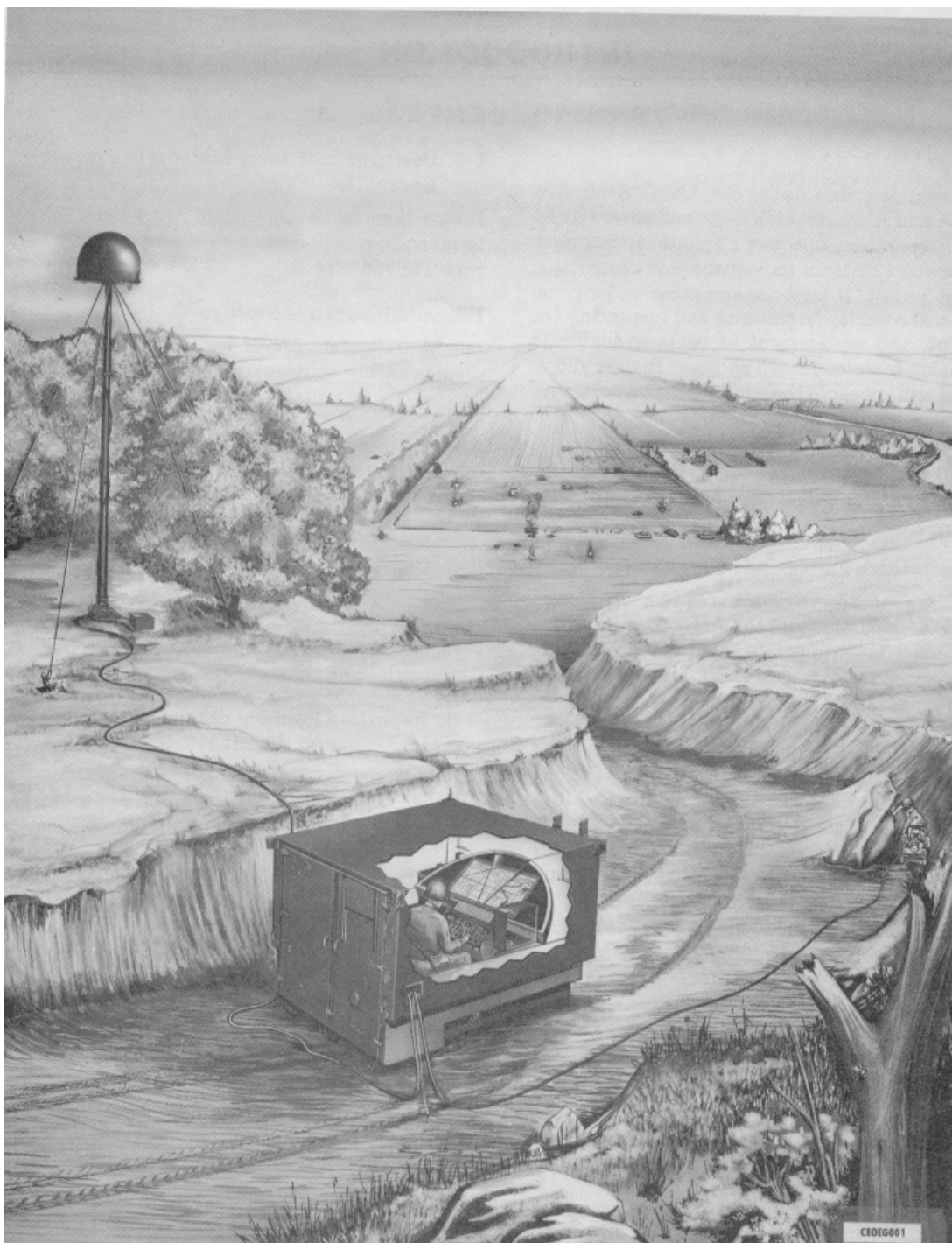


Figure 1-1. Radar Set AN/TPS-25 in Use.