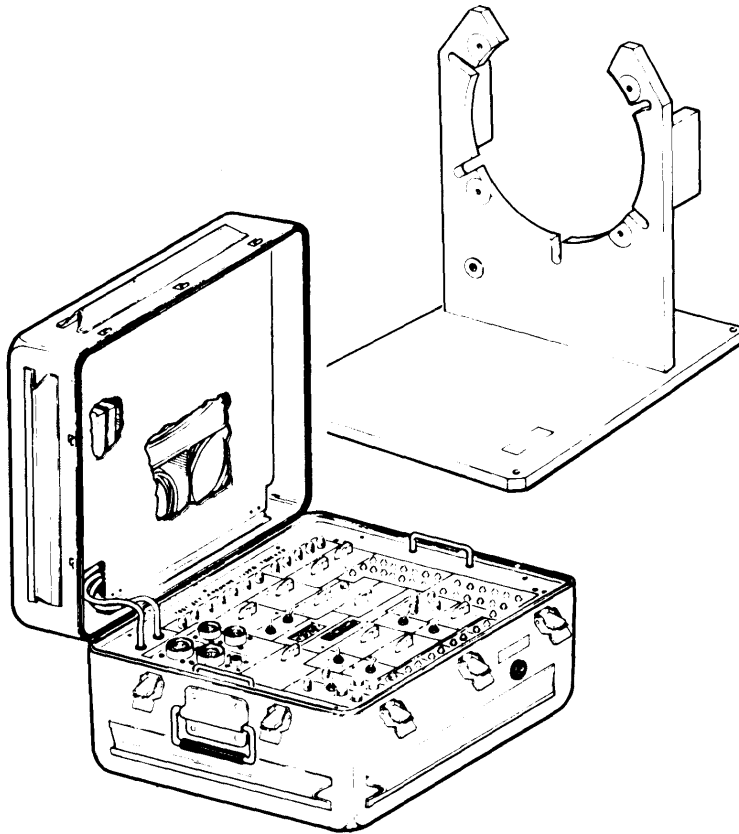


TM 11-6625-2638-12

**OPERATOR'S AND ORGANIZATIONAL
MAINTENANCE MANUAL**



**TABLE OF
CONTENTS
PAGE i**

**INTRODUCTION
PAGE 1-1**

**OPERATING
INSTRUCTIONS
PAGE 2-1**

**ORGANIZATIONAL
MAINTENANCE
PAGE 3-1**

**AIRBORNE LASER TRACKER
TEST SET AN/AAM-55
(NSN 5860-01-070-3842)**

**APPENDIX
PAGE A-1**

HEADQUARTERS, DEPARTMENT OF THE ARMY

4 JUNE 1984

Technical Manual
 No. 11-6625-2638-12

HEADQUARTERS
 DEPARTMENT OF THE ARMY
 Washington, DC, 4 June 1984

**Operator's and Organizational Maintenance Manual
 AIRBORNE LASER TRACKER TEST SET
 AN/AAM-55
 (NSN 5860-01-070-3842)**

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. A reply will be furnished to you.

		Paragraph	Page
CHAPTER 1	INTRODUCTION		1-1
Section I	General Information		1-1
	Scope	1-1	1-1
	Index of Technical Publications	1-2	1-1
	Maintenance Forms and Records	1-3	1-1
	Destruction of Army Materiel to Prevent Enemy Use	1-4	1-2
	Preparation for Storage or Shipment	1-5	1-2
	Reporting Equipment Improvement Recommendations (EIR)	1-6	1-2
	Nomenclature Cross-Reference List	1-7	1-2
	Equipment Description and Data		1-3
	Equipment Characteristics, Features and Capabilities	1-8	1-3
	Location and Description of Major Components	1-9	1-4
	Equipment Data	1-10	1-5
III	Technical Principles of Operation		1-5
CHAPTER 2	OPERATING INSTRUCTIONS		2-1
Section I	Description and Use of Operator's Controls and Indicators		2-1
II	Operator Preventive Maintenance Checks and Services (PMCS)		2-30
	General	2-1	2-30
III	Operation Under Usual Conditions		2-32
	General	2-2	2-32
	Site and Shelter Requirements	2-3	2-32

		Paragraph	Page
CHAPTER 3	ORGANIZATIONAL MAINTENANCE		3-1
Section I	Repair Parts, Special Tools, TMDE and Support Equipment		3-1
	Common Tools and Equipment	3-1	3-1
	Special Tools, TMDE, and Support Equipment	3-2	3-1
	Repair Parts	3-3	3-1
II	Service Upon Receipt		3-1
	Unpacking	3-4	3-1
	Checking Unpacked Equipment	3-5	3-1
Section III	Preventive Maintenance Checks and Services (PMCS)	3-6	3-2
IV	Organizational Troubleshooting Procedure		3-3
	Test Set Troubleshooting Procedure	3-7	3-4
V	Maintenance Procedures		3-4
	Power Connections	3-8	3-4
	Removal and Replacement of Lamps	3-9	3-4
	Removal and Replacement of Fuses	3-10	3-4
	Replacing and Securing Knobs	3-11	3-5
VI	Preparation for Storage or Shipment		3-6
	Preparing Test Set for Storage or Shipment	3-12	3-6
	Packing the Test Set	3-13	3-6
	Packing the Test Stand	3-14	3-6
APPENDIX A	REFERENCES		A-1
B	MAINTENANCE ALLOCATION CHART		B-1
c	COMPONENTS OF END ITEM		C-1
GLOSSARY		Glossary 1

LIST OF ILLUSTRATIONS

Figure Number	Title	Page
1-1	Airborne Laser Tracker Test Set AN/AAM55	1-1
1-2	Test Set Major Components	1-4
2-1	Test Set Front Panel	2-1
2-2	Power Group	2-2
2-3	Elect and Rcvr Group	2-4
2-4	Elect Group Test Jacks	2-6
2-5	DVM/Scope Switch and Elect Scope/DVM Jacks	2-8
2-6	Elect Test Lamps	2-10
2-7	Mode Switch	2-12
2-8	Scan, Σ ATCode and Tracking Filter Switches	2-14
2-9	Elec Voltage Switch	2-16
2-10	BITE/Address Group	2-18
2-11	Rcvr Test Jacks	2-20
2-12	Qdrt and Gimbal Cored Group	2-22
2-13	Motor Pwr, Azimuth Gain, LED PRF and MLO Switches	2-24
2-14	Rcvr Current Group	2-26
2-15	Servo Group	2-28
3-1	Lamp Fuse Knob Replacement	3-5

LIST OF TABLES

Table Number	Title	Page
1-1	Nomenclature Cross-Reference	1-2
2-1	Power Group	2-3
2-2	Elect and Rcvr Group	2-5
2-3	Elect Group Test Jacks	2-7
2-4	DVM/Scope Switch and Elect Scope/DVM Jacks	2-9
2-5	Elect Test Lamps	2-11
2-6	Mode Switch	2-13
2-7	Scan, Σ ATCode Tracking Filter Switches	2-15
2-8	Elec Voltage Switch	2-17
2-9	BITE/Address Group	2-19
2-10	Rcvr Test Jacks	2-21
2-11	Qdrt and Gimbal Cored Group	2-23
2-12	Motor Pwr, Azimuth Gain, LED PRF and MLO Switches	2-25
2-13	RCVR Current Group	2-27
2-14	Servo Group	2-29
2-15	Operator Preventative Maintenance Checks and Services (PMCS)	2-31
2-16	Lamp and Fuse Checkout	2-32
3-1	Preventive Maintenance Checks and Services (PMCS)	3-2
3-2	Test Set Troubleshooting Procedure	3-3

CHAPTER 1

INTRODUCTION

Section I. GENERAL INFORMATION

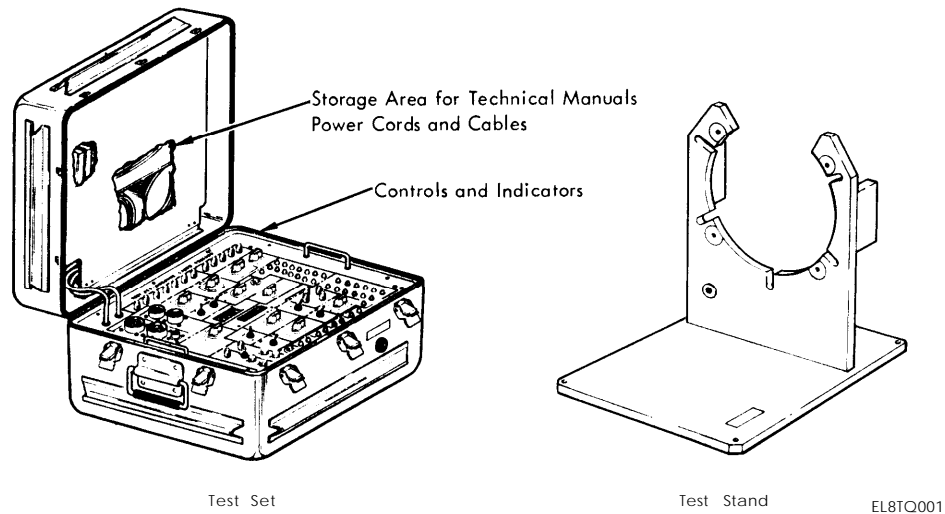


Figure 1-1. Airborne Laser Tracker Test Set AN/AAM-55.

1-1. Scope

a. The purpose of this manual is to tell you how to operate and maintain the Airborne Laser Tracker Test Set, AN/AAM-55.

b. The Test Set is used to troubleshoot the Receiver-Tracker, Laser R-1920/AAS-32 (receiver) and the Electronic Components Assembly MX-9623/AAS-32 (electronic assembly).

1-2. Index of Technical Publications

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

a. 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.