

TECHNICAL MANUAL

OPERATOR AND ORGANIZATIONAL

MAINTENANCE MANUAL:

EMPLACEMENT AND PREPARATION FOR TRAVEL

GUIDED MISSILE

AIR DEFENSE SYSTEM

AN/TSQ-73

This copy is a reprint which includes current pages from Changes 1 Through 10..

HEADQUARTERS, DEPARTMENT OF THE ARMY

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Operator and Organizational Maintenance Manual:

Emplacement and Preparation for Travel

GUIDED MISSILE AIR DEFENSE SYSTEM ANTSQ-73

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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TABLE OF CONTENTS

Chapter		Page
	LIST OF ILLUSTRATIONS	iv
	LIST OF TABLES	v
1	INTRODUCTION.....	1-1
	1-1. Scope.....	1-1
	1-2. Maintenance Forms and Procedures	1-1
	1-3. Corrosion Prevention and Control.....	1-1
	1-4. Destruction of Army Materiel to Prevent Enemy Use.....	1-1
	1-5. Reporting Equipment Improvement Recommendations (EIR).....	1-1
	1-6. Official Nomenclature.....	1-1
	1-7. Components of End Item (COEI) and Basic Issue Item (BH) Lists	1-1
	1-8. Additional Authorization List.....	1-1
	1-9. On-Vehicle Equipment Loading Plan	1-1
	1-10. List of Abbreviations.....	1-1
2	SERVICE UPON RECEIPT.....	2-1
	2-1. Scope	2-1
	2-2. Inspection for Damage	2-1
	2-3. General Services.....	2-1
3	SYSTEM INSTALLATION	3-1
	Section I. INTRODUCTION.....	3-1
	3-1. Scope	3-1
	3-2. Installation	3-1
	3-3. System Installation Flow Chart.....	3-1
	Section II. SITING REQUIREMENTS	3-5
	3-4. System Shelter Siting Requirements.....	3-5
	3-5. Auxiliary Equipment Siting Requirements	3-5

TABLE OF CONTENTS-Continued

Chapter		Page
	Section III. EQUIPMENT INSTALLATION	3-8
	3-6.General	3-8
	3-7.Truck-Mounted Installation.....	3-8
	3-8.Fixed Installation	3-8
	3-9.Removing System Shelter Equipment from Stowage	3-11
	3-10. Air Conditioner Installation	3-11
	3-11. Modular Collective Protection Equipment (MCPE) Installation.....	3-11
	3-12. Remoting Display Equipment.....	3-17
	3-13. Power Equipment Cabling Installation	3-23
	3-14. Communications Equipment Cabling Installation.....	3-26
	3-15. Radar Junction Box Cabling Installation	3-28
	3-15.1 Local Remote Switching Unit (LRSU) Cabling Installation.....	3-28
	3-16. Remote Display Equipment Cabling Installation	3-33
	3-16.1 MSE/ADI Cabling Installation.....	3-33
	3-17. Inspections, Checks, and Adjustments After Installation	3-33
	 Section IV. SYSTEM ORIENTATION AND ALINEMENT	 3-35
	3-18. General	3-35
	3-19. Preliminary Procedures to Orientation and Alignment Procedure	3-35
	3-20. Battalion AN/TSQ-73 System Orientation and Alignment Procedures..	3-35
	 MATERIAL HANDLING AND PREPARATION FOR TRAVEL	 4-1
	 Section I. INTRODUCTION.....	 4-1
	4-1.Scope	4-1
	4-2.Materials Required	4-1
	 Section II. MATERIAL HANDLING.....	 4-2
	4-3.General	4-2
	4-4.System Shelter Truck Removal Procedures	4-2
	4-5.System Shelter Handling.....	4-2
	4-6.Support Truck Accessory Equipment Removal Procedures	4-2
	4-7.Rigging System Shelter For Crane Lift.....	4-2
	4-8.Rigging System Shelter for Helicopter Lift	4-3
	4-9.Rigging Air Conditioner for Lifting	4-4
	4-10. Rigging Cable-Reeling Machines For Lifting.....	4-5
	4-11. Rigging Motor Generator For Lifting.....	4-5
	4-12. Rigging Transport Pallet Assembly For Lifting.....	4-7
	4-13. Rigging Cable Reels For Lifting	4-8
	4-14. Rigging Modular Collective Protection Equipment (MCPE) Filter Unit and Power Distribution Unit Assembly For Lifting	4-8
	4-15. Lifting Procedures	4-8
	 Section III. PREPARATION FOR TRAVEL.....	 4-11
	4-16. General	4-11
	4-17. System Purge.....	4-11
	4-18. Power Shutdown	4-11
	4-19. Remote Display Equipment Reinstallation.....	4-11
	4-20. Modular Collective Protection Equipment Removal.....	4-11
	4-21. Deleted	

TABLE OF CONTENTS-Continued

Chapter		Page
	4-22. Air Conditioner Removal	4-15
	4-23. Radar Junction Box Removal	4-15
	4-24. Securing System Shelter Equipment	4-15
	4-25. System Shelter Truck Loading Procedures	4-17
	4-26. Support Truck Loading Procedure	4-19
	4-27. Cable-Reeling Machines No. 1 and No. 2 Packing Procedures	4-24
	4-28. Transport Pallet Assembly Packing Procedures.....	4-27
	Section IV. CHECKS DURING TRAVEL.....	4-29
	4-29. General	4-29
	4-30. Frequency of Checks	4-29
	4-31. Required Checks	4-29
5	MODULAR COLLECTIVE PROTECTION EQUIPMENT	5-1
	Section I. INTRODUCTION.....	5-1
	5-1.Scope.....	5-1
	5-2.MCPE Equipment Supplied.....	5-1
	5-3.References.....	5-1
	5-4.Installation Criteria	5-1
	Section II. INITIAL INSTALLATION	5-3
	5-5.General	5-3
	5-6.Filter Unit Assembly	5-3
	5-7.Filter Unit, Power Distribution Unit, and Filter Mounting Bracket Assembly.....	5-3
	5-8. Gas Filter and Particulate Filter Installation	5-9
	5-9. Compartment Control Module Assembly Procedures.....	5-11
	5-10. Protective Entrance Door Interface Frame Assembly.....	5-11
	5-10.1 Air Flow Valve and Silencer Assembly.....	5-14.1
	Section III. MODULAR COLLECTIVE PROTECTION EQUIPMENT EMPLACEMENT AND PREPARATION FOR TRAVEL.....	5-15
	5-11. Modular Collection Protective Equipment (MCPE) Installation	5-15
	5-12. Protective Entrance Erecting and Striking Procedures	5-16
Appendix		
A	REFERENCES	A-1
B	COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LISTS ..	B-1
C	ADDITIONAL AUTHORIZATION LIST (AAL) ITEMS	C-1
D	EXPENDABLE AND DURABLE ITEMS LIST	D-1
E	STOWAGE AND SIGN GUIDES	E-1
F	ON-VEHICLE EQUIPMENT LOADING PLAN	F-1
G	LIST OF ABBREVIATIONS/ACRONYMS	G-1
INDEX	Index I

LIST OF ILLUSTRATIONS

Figure	Title	Page
1-1	Guided Missile Air Defense System AN/TSQ-73	1-2
3-1.	System Installation Flow Chart	3-2
3-2.	Typical Guided Missile Air Defense System AN/TSQ-73 Truck Mounted Installation	3-9
3-3.	Typical Guided Missile Air Defense System AN/TSQ-73 Fixed Installation	3-10
3-4.	Air Conditioner Installation	3-12
3-5.	Data Display Group Stand Installation.....	3-21
3-6.	Display Console Removal and Replacement.....	3-22
3-7.	Typical Site Cabling Plan	3-24
3-8.	Primary Power Interconnection Diagram.....	3-25
3-8.1	Ground Installation Details	3-26.1
3-8.2	Deleted	
3-9.	Communications Equipment Interconnection Diagram	3-27
3-10.	Deleted	
3-11.	Radar Set AN/MPQ-50 Interconnecting Cabling Diagram..	3-29
3-12.	Hawk Interconnecting Cabling Diagram.....	3-30
3-13.	Deleted	
3-14.	Deleted	
3-15.	Deleted	
3-16.	Deleted	
3-16.1	Deleted	
3-16.2	Deleted	
3-17.	Deleted	
3-18.	Deleted	
3-19.	Typical SA-2223/'U Local Remote Switching Unit (LRSU) Interconnecting Cabling Diagram	3-32.4
3-20.	Deleted	
4-1.	System Shelter Crane Lift Rigging	4-3
4-2.	System Shelter Helicopter Lift Rigging.....	4-4
4-3.	Air Conditioner Lift Rigging	4-4
4-4.	Cable-Reeling Machine Lift Rigging.....	4-5
4-5.	Motor Generator Lift Rigging	4-6
4-6.	Transport Pallet Assembly Lift Rigging	4-7
4-7.	Cable Reel Lift Rigging	4-8
4-8.	Modular Collective Protection Equipment Filter Unit and Power Distribution Unit Assembly Lift Rigging	4-9
4-9.	System Shelter Truck Transport Configuration	18
4-9.1	Tiedown Strap Assembly	4-18.2
4-10.	Support Truck Transport Configuration	4-21
4-10.1	Power Cable Reels Packing Configuration	4-24.1
4-10.2	Transit Case Packing Configuration.....	4-24.2
4-11.	Cable-Reeling Machine No. 1 Packing Configuration	4-25
4-12.	Cable-Reeling Machine No. 2 Packing Configuration.....	4-26
4-13.	Transport Pallet Assembly Packing Configuration	4-28
5-1.	Overview of Modular Collective Protection Equipment	5-4
5-2.	Filter Unit Assembly	5-8
5-3.	Filter Unit, Power Distribution Unit, and Filter Mounting Bracket Assembly Installation	5-9
5-4.	Gas Filter and Particulate Filter Installation.....	5-10
5-5.	Feed-Through Connector and Sensing Port Installation	5-12

LIST OF ILLUSTRATIONS-Continued

Figure	Title	Page
5-6.	Compartment Control Module Installation	5-13
5-7.	Protective Entrance Door Interface Frame Assembly	5-14
5-7.1.	Air Flow Valve and Silencer Assembly	5-14. 1
5-8.	Protective Entrance Erecting Procedure	5-17
5-9.	Protective Entrance Striking Procedure	5-19
F-1.	On-Vehicle Equipment Loading Plan Diagram	F-1

LIST OF TABLES

Table	Title	Page
1-1.	AN/TSQ-73 Official Nomenclature	1-1
3-1.	Auxiliary Equipment	3-6
3-2.	AN/TSQ-73 System Compatible Radar Sets	3-7
3-3.	Deleted	
3-4.	Display Equipment Connections	3-19
3-5.	List of Terminators	3-34
4-1.	Rigging and Lifting Equipment	4-9
4-2.	Power Shutdown Control Settings	4-12
4-3.	Support Truck Tiedown Strap Requirements	4-20
5-1.	MCPE Equipment Supplied	5-1

CHAPTER 1

INTRODUCTION

1-1. Scope. This manual contains information for emplacement and preparation for travel of Guided Missile Air Defense System AN/TSQ-73 (fig. 1-1). This manual is published for use by personnel responsible for operating and maintaining the system. Chapter 1 provides physical and technical description. Chapter 2 provides instructions for service to equipment upon receipt. Chapter 3 describes system installation. Chapter 4 describes procedures for material handling and preparation for travel. Chapter 5 describes installation procedures for the Modular Collective Protection Equipment (MCPE).

1-2. Maintenance Forms and Procedures. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750 (The Army Maintenance Management System (TAMMS)) (Maintenance Management Update).

1-3 Corrosion Prevention and Control. Refer to the Preventive Maintenance Checks and Services (PMCS) section of TM 9-1430-655-20-1 for inspections for and control of corrosion.

1-4. Destruction of Army Materiel to Prevent Enemy Use. If capture of this equipment appears imminent, or if the equipment must be abandoned, it should be destroyed to prevent enemy use. Destruction procedures should be carried out only on orders from cognizant authority. Refer to TM 43-0002-21 for procedures required for destruction of the equipment and related system materiel. Recorded tape transport cartridges and classified manuals are priority items requiring destruction.

1-5 Reporting Equipment Improvement Recommendations (EIR). If your AN/TSQ-73 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 or performance. Put it on an SF 388 (Product Quality Deficiency Report). Mail it to us at the address listed in DA PAM 738-750. We will send you a reply.

1-6. Official Nomenclature. AN/TSQ-73 system nomenclature associated with the equipment described herein is listed in table 1-1. For further identification, a cross-reference is provided for the common name used in this technical manual.

1-7. Components Of End Items (COEI) and Basic Issue Items (BII) Lists. For the Components of End Item (COEI) and Basic Issue Items (BII) applicable to the AN/TSQ-73 System, refer to TM 9-1425-650-12.

1-8 Additional Authorization List For the Additional Authorization List (AAL) items applicable to the AN/TSQ-73 System, refer to TM 9-1425-650-12.

1-9. On-Vehicle Equipment Loading Plan. A drawing showing system shelter and accessory equipment dimensions, weights and centers of gravity when ready for travel is provided as appendix F.

1-10. Use of Abbreviations. Refer to appendix G for a list of abbreviations and acronyms used in this manual.

Table 1-1. AN/TSQ-73 Official Nomenclature

Official nomenclature	Common Name
Air Defense System, Guided Missile AN/TSQ-73 (V)	AN/TSQ-73 system (battalion configuration) AN/TSQ-73 system (brigade configuration)
Shelter, Electrical Equipment S-529/TSQ-73 (V)	System shelter (battalion configuration) System shelter (brigade configuration)
Console, Assault Fire Command, Guided Missile OJ-299,TSQ-73 (V)	Display console
Data Display Group OD-96/TSQ-73 (V)	Data Display Group (DDG)
Recorder-Reproducer, Guided Missile System, RD-449/TSQ-73 (V)	Magnetic Tape Unit (MTU)
Test Set, Electronic Circuit Plug-In Unit TS-3317frSQ-73 (V)	Module Test Set (MTS)
Brushless, Synchronous Motor Generator Set, Teledyne-Inet Models	Frequency Converter

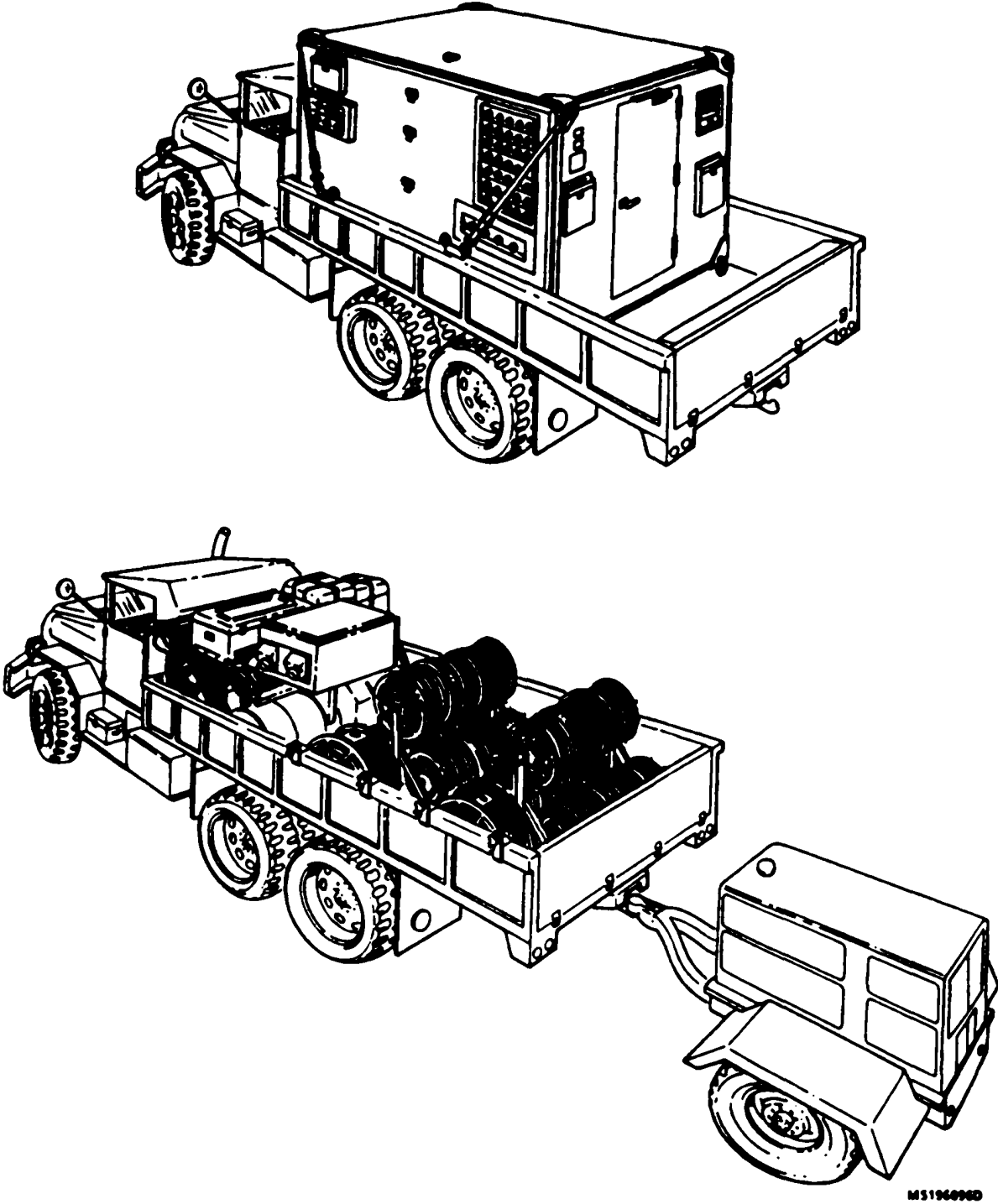


Figure 1-1. Guided Missile Air Defense System ANITSQ-73.

CHAPTER 2

SERVICE UPON RECEIPT

2-1. Scope. When a new or reconditioned AN/TSQ-73 system is first received by the using organization, the officer-in-charge is responsible for determining that the equipment has been properly prepared for service by the supplying organization and that it is in condition to perform its assigned mission when placed in operation. For this purpose, an inspection should be made of all major components, assemblies, subassemblies, and equipment to make sure that they are properly assembled, secure, and clean. All repair parts, tools, and equipment should be checked against the Components Of End Items (COEI) list and Basic Issue Items (BI) list to make sure that every item is present. (See TM 9-1425-650-12 for referenced lists.) The system operator/repairman performs the inspection to determine that the equipment has been properly prepared for service and that it is in condition to perform its assigned mission. The inspection and service procedures are provided in para 2-2 and 2-3 below.

2-2. Inspection for Damage. To make sure that the AN/TSQ-73 system incurred no damage during shipment, perform the procedures in paragraphs a through h below. If the system has incurred damage during shipment, refer to TM 9-1430-655-20-1 for corrective action; or, if the damage is beyond repair, notify the officer-in-charge.

a. Inspect shelter exterior for dents, breaks, or other signs that indicate damage to internal equipment.

b. Make sure that all shelter surfaces are free from dirt, oil, grease, and other foreign substances.

c. Inspect all demarkation panel connectors to make sure of pin integrity and freedom from dirt, oil, moisture, and other foreign substances.

d. Make sure that shelter door, escape hatch, air baffles, and mechanical fixtures are in good working condition.

e. Inspect shelter interior for dents, breaks, loose items, and other signs that indicate equipment damage.

f. Make sure that all chassis assemblies are secure and that all doors, panels, and drawers fit snugly.

g. Inspect all switches, controls, and indicators for physical damage.

h. Make sure that exposed internal cabling is secure and is not damaged.

2-3 General Services. The inspection procedures of paragraphs a and b below should also be performed upon receipt of a new or reconditioned AN/TSQ-73 system.

a. Carefully note all tags and decals attached to materiel; they might contain information relating to operation and/or maintenance.

b. Inspect materiel to see if all Modification Work Orders (MWOs) have been applied. If publications supplied contain procedures which vary according to MWOs, it becomes mandatory to determine which MWOs have been applied.