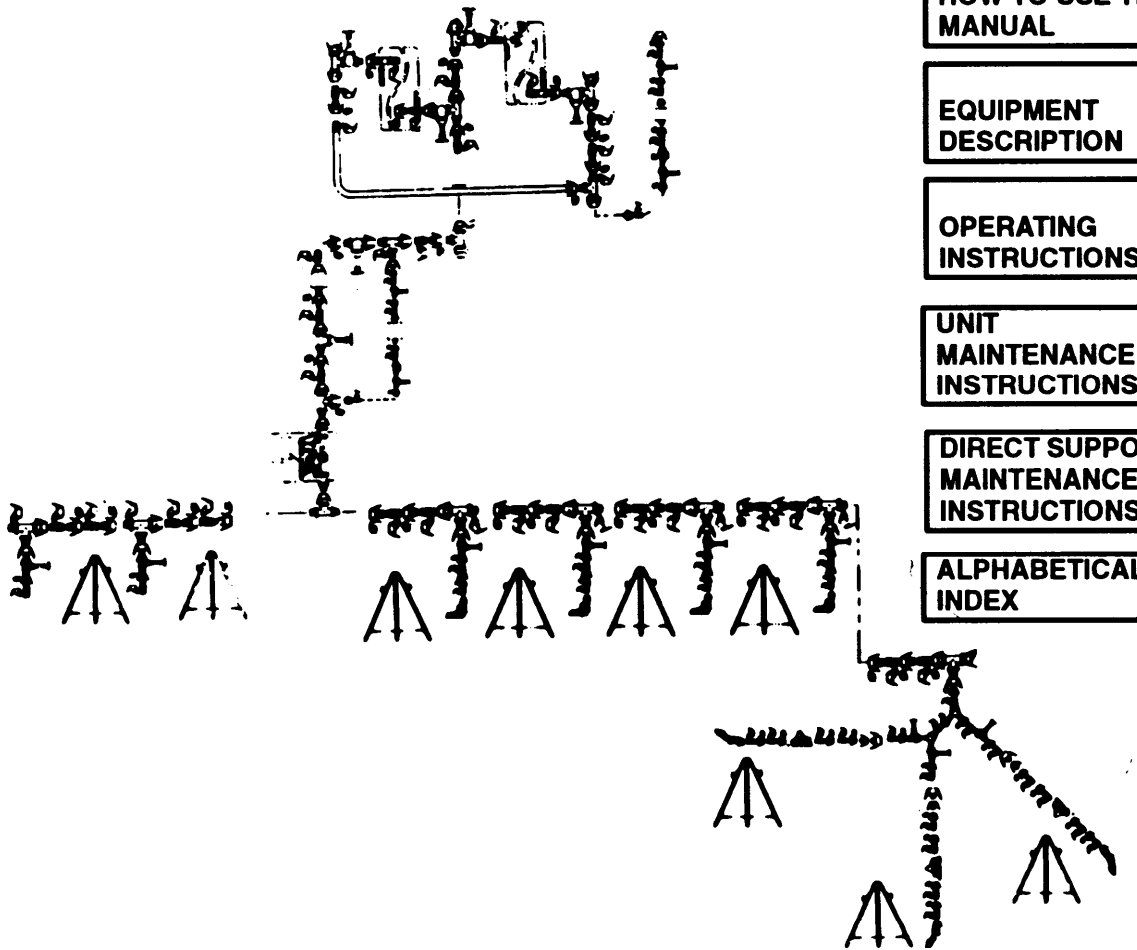

TECHNICAL MANUAL

**OPERATOR'S, UNIT AND DIRECT
SUPPORT MAINTENANCE MANUAL
FOR**

**40,000 GALLON WATER
DISTRIBUTION SYSTEM
NSN 4610-01-114-1451**



**HOW TO USE THIS
MANUAL**

iii

**EQUIPMENT
DESCRIPTION**

1-3

**OPERATING
INSTRUCTIONS**

2-1

**UNIT
MAINTENANCE
INSTRUCTIONS**

4-1

**DIRECT SUPPORT
MAINTENANCE
INSTRUCTIONS**

5-1

**ALPHABETICAL
INDEX**

Index-1

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited

*** This manual supersedes TM 5-4610-234-13, dated 10 August 1990.**

HEADQUARTERS, DEPARTMENT OF THE ARMY

30 JUNE 1993

TECHNICAL MANUAL

NO. 10-4610-234-13

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DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 30 June 1993

TECHNICAL MANUAL

Operator's Unit and Direct Support
Maintenance Manual
for
40,000 Gallon Water Storage and Distribution System
MODEL WSDS40K
NSN: 4610-01-114-1451
MODEL 40KWSDS
NSN: 4610-01-382-3583
MODEL ALP9440
NSN: 4610-01-413-1886**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 these procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual directly to: Commander, US Army Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. You may also submit your recommended changes by E-mail directly to <daf2028@st-louis-emh7.army.mil>. A reply will be furnished directly to you.

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TABLE OF CONTENTS

	PAGE
HOW TO USE THIS MANUAL	iii
CHAPTER 1 INTRODUCTION	
Section I General Information	1-1
Section II Equipment Description	1-3
Section III Technical Principles of Operation	1-6
CHAPTER 2 OPERATING INSTRUCTIONS	
Section I Description and Use of Operator's Controls and Indicators	2-1
Section II Operator's Preventive Maintenance Checks and Services (PMCS)	2-5
Section III Operation Under Usual Conditions	2-17
Section IV Operation Under Unusual Conditions	2-40
CHAPTER 3 OPERATOR MAINTENANCE	
Section I Lubrication Instructions	3-1

* This manual supersedes TM 10-5-4610-234-13, dated 10 August 1990.

TABLE OF CONTENTS - continued

	PAGE
Section II Operator Troubleshooting Procedures	3-1
Section III Operator Maintenance Procedures	3-4
CHAPTER 4 UNIT MAINTENANCE	
Section I Repair Parts, Special Tools; Test, Measurement and Diagnostic Equipment (TMDE); and Support Equipment	4-1
Section II Service Upon Receipt	4-1
Section III Unit Preventive Maintenance Checks and Services	4-5
Section IV Unit Troubleshooting Procedures	4-7
Section V Unit Maintenance Procedures	4-9
Section VI Preparation for Storage and Shipment	4-53
CHAPTER 5 DIRECT SUPPORT MAINTENANCE INSTRUCTIONS	
Section I Direct Support Maintenance Procedures	5-1
Appendix A References	A-1
Appendix B Maintenance Allocation Chart.... .	B-1
Appendix C Components of End Item and Basic Issue Items List	C-1
Appendix D Expendable/Durable Supplies and Materials List	D-1
Appendix E Additional Authorization List (AAL).	E-1
Index	Index-1

HOW TO USE THIS MANUAL

Be sure to read all Warnings before using your equipment.

This manual contains operating instructions and Operator, Unit and Direct Support Maintenance instructions for the 40K Water Distribution System.

- Chapter 1- Introduces you to the equipment and gives you information such as weight, height, length, generally used abbreviations, cross reference information and principles of operation. The chapter is preceded by a full page illustration of the equipment.

- Chapter 2- Provides information necessary to identify and use the equipment's operating controls. Operating procedures tell you how to use the equipment in both usual and unusual weather conditions. In addition, preventive maintenance instructions provide information needed to inspect and service the water system.

- Chapter 3- Provides operator maintenance instructions for troubleshooting equipment malfunctions.

- Chapter 4- Provides unit maintenance instructions including service upon receipt, preventive maintenance and troubleshooting information; detailed maintenance and repair procedures for the Unit Maintenance repairer and storage and shipment instructions.

- Chapter 5- Provides detailed component repair instructions for the Direct Support maintenance group.

- Appendix A gives you a list of frequently used forms and publications.

- Appendix B is the Maintenance Allocation Chart (MAC).

- Appendix C describes components that make up the end item and are shipped with the basic equipment. It also lists components that are not mounted on the equipment, but are required to make the system functional. All components in the Components of End Item and Basic Issue Items Lists are illustrated for easy identification.

- Appendix D provides you with information about expendable supplies such as sealant, paint, lubricants, etc.

- Appendix E lists additional equipment authorized for your unit for use with the water system, but are not supplied as part of system. This equipment list may include fire extinguishers, buckets, protective clothing etc.

- The Alphabetical Index is the last item in the TM. You will find it useful in locating page numbers about specific information or procedures. Becoming familiar with this manual will enable you to operate and maintain the equipment in good working order.

CHAPTER 1 INTRODUCTION

Section I. GENERAL INFORMATION

1.1 SCOPE.

- a. Type of Manual. This is an Operators, Unit, and Direct Support Maintenance manual for use with two similar 40K Water Storage and Distribution Systems (WSDS). It provides instructions for operating and maintaining the equipment.
- b. Model Number and Equipment Name. The nomenclature is Water Storage and Distribution System, Model WSDS40K or Model 40KWSDS. The components of these systems are interchangeable.
- c. Purpose of Equipment. Stores and distributes potable water.

1.2 MAINTENANCE FORMS AND RECORDS.

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).

1.3 DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE

For procedures and materials used to destroy Army materiel to prevent enemy use, refer to TM 750-244-3.

1.4 REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR'S).

If your Water Storage and Distribution System 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 368 (Quality Deficiency Report). Mail it to us at Commander, US Army Aviation and Troop Command, ATTN: AMSAT-I-MDO, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798.

1.5 PREPARATION FOR STORAGE OR SHIPMENT.

- a. Placement of equipment in administrative storage should be for short periods of time when shortage of maintenance efforts exist. Items should be in mission readiness within 24 hours or within the time factors as determined by the directing authority. During the storage period, appropriate maintenance records will be kept.
- b. Before placing equipment in administrative storage, current preventive maintenance checks and services evaluations should be completed, shortcomings and deficiencies should be corrected, and all Modification Work Orders (MWO's) should be applied.
- c. Storage site selection. Inside storage is preferred for items selected for administrative storage. If inside storage is not available, trucks, vans, convex containers and other containers may be used.

1.6 NOMENCLATURE CROSS REFERENCE LIST

The following list includes the nomenclature and cross references used in this manual.

Common Name

Official Nomenclature

350 GPM Pump	Pumping Assy, Wheel Mounted, 4-inch, 350 GPM at 275-Foot
350 GPM Pump Connection Kit	Connection Kit, 350 GPM Pump
125 GPM Pump	Pumping Assy, 2-inch, 125 GPM at 50-Foot
125 GPM Pump Connection Kit	Connection Kit, 125 GPM Pump