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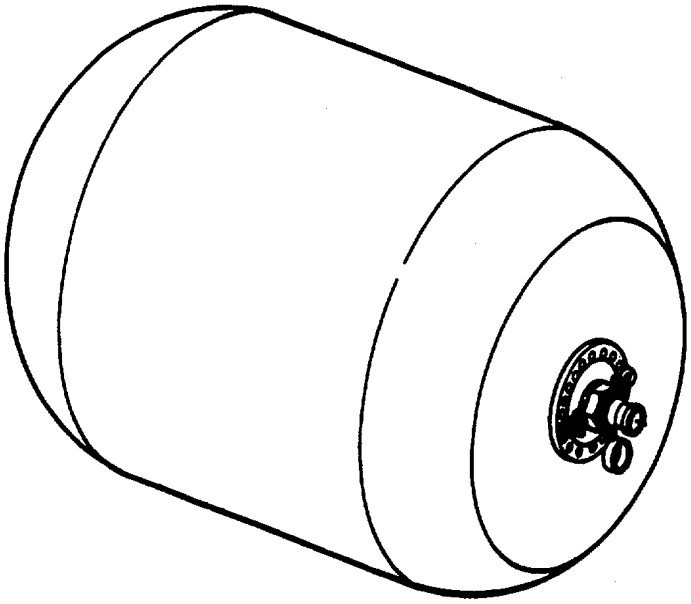

500 GALLON COLLAPSIBLE
LIQUID FUEL DRUM,
LOW TEMPERATURE
MODEL 91097
NSN: 8110-01-327-1981

Distribution Statement A: Approved for public release, distribution is unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY
3 JUNE 1996

TECHNICAL MANUAL
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DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 3 June 1996

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500 GALLON COLLAPSIBLE LIQUID FUEL DRUM, LOW TEMPERATURE

MODEL 91097
(NSN: 8110-01-327-1981)

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 <mpmP/oavma28@st-louis-emh7.army.mil>. A reply will be furnished directly to you. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028.

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HOW TO USE THIS MANUAL

Be sure to read all Warnings before using your equipment.

This manual contains instructions for operation and maintenance of the 500 gallon fuel drum.

MANUAL OVERVIEW

a. Index Tabs.

Notice the front cover index of this manual. It lists the most important areas of the manual and guides you to those sections. Follow the black mark on the cover index edge through the pages to the edge mark on the section you want. The subjects on the front cover index are also highlighted in the table of contents by boxes. A detailed alphabetical index is located at the back of this manual.

b. Contents.

The following gives you a summary of each chapter and appendix. Before beginning a maintenance task, you must familiarize yourself with the entire procedure.

- Chapter 1. Introduces you to the equipment and gives you information such as weight, dimensions, abbreviations used and information on how the unit works.
- Chapter 2. Provides information necessary to identify and use the equipment. Operating instructions in this chapter 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 500 gallon drum.
- Chapter 3. Provides operator troubleshooting procedures for identifying equipment malfunctions and maintenance procedures for performing operator maintenance tasks.
- Chapter 4. Provides unit maintenance personnel with troubleshooting procedures for identifying equipment malfunctions and maintenance procedures for repairing defective equipment.
- Appendix A. Provides a list of frequently used forms and publications referenced or used in this manual.
- Appendix B. The Maintenance Allocation Chart identifies repairable components and the maintenance level authorized to perform the repairs.
- Appendix C The Repair Parts and Special Tools List (RPSTL) lists and authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability codes. This appendix also includes a cross reference index, nation stock number index, part number index and figure and item index which cross references national stock numbers and part numbers to each illustration, figure and item number.
- Appendix D Lists components that are not mounted on the equipment, but are required to make the unit functional.
- Appendix E List additional equipment authorized for your unit for use with the 500 gallon drum.
- Appendix F Provides you with information about expendable supplies such as sealants, lubricants, chemicals etc. that are used when operating or maintaining the equipment.
- Appendix G Provides a list of items and instructions on how to make certain tools and devices required to perform some of the maintenance tasks contained in this manual.
- Appendix H Provides information concerning torque values and sequences required during maintenance of the equipment.
- Glossary Lists terms and abbreviations used in this manual and their definitions.

HOW TO USE THIS MANUAL continued

- Index - Lists subject matter contained in manual in alphabetical order.

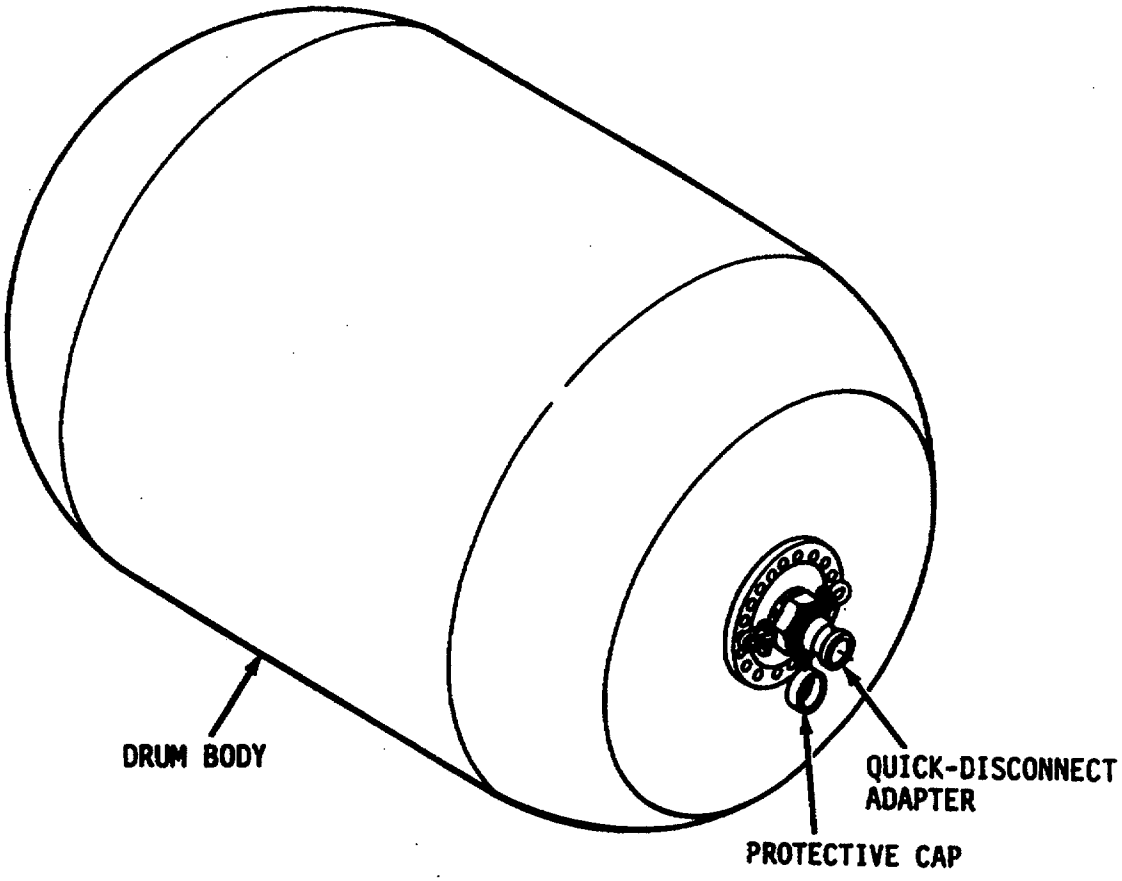

Figure 1-1. 500 Gallon Drum

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CHAPTER 1

INTRODUCTION

Section I. GENERAL INFORMATION

1-1. SCOPE

This manual contains operating instructions, Unit maintenance procedures and Repair Parts and Special Tools List. These procedures are required to operate and maintain the 500 gallon drum, Model 91097.

The 500 gallon drum is a non-vented, cylindrical, collapsible drum for storing and transporting liquid fuels. The drum is designed for operation in environmental conditions including low ambient temperatures.

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. DESTRUCTION OF ARMY MATERIAL TO PREVENT ENEMY USE.

WARNING

Fuels are hazardous flammable liquids. Avoid getting fuel on the body or clothing. Death or serious injury could occur if safety precautions are not strictly observed.

a. General This equipment may be destroyed by mechanical methods or by using the fuel which the drum contains to set it on fire.

NOTE

Fuel in drum can be used to destroy other pieces of equipment in the same area

b. Mechanical Demolition. Use an axe, pick, mattock, sledge, or any other heavy implement to smash the quick disconnect adaptors and to slash holes in the drum.

c. Demolition by Fire. Use some of the fuel contained in the drum to saturate the equipment and ignite.

d. Additional Information. For additional information on procedure for destruction of materiel, refer to TM 750-244-3.