

# TM 10-5430-240-13&P

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## TECHNICAL MANUAL

OPERATOR, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL  
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)

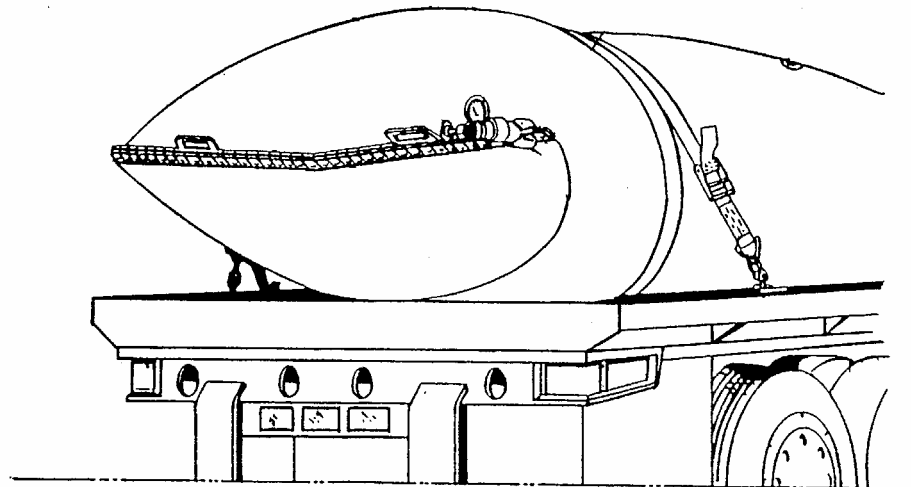
TANK, FABRIC, COLLAPSIBLE, WATER, 3,000 AND  
5,000 GALLONS, SEMI-TRAILER MOUNTED

### 3,000 GALLONS

MODEL PD62783-3000 (EIC = ZJP) NSN 5430-01-181-4071  
MODEL 91093 (EIC = ZFX) NSN 5430-01-372-6901

### 5,000 GALLONS

MODEL PD62783-4750 (EIC = ZJJ) NSN 5430-01-120-7823  
MODEL 91094 (EIC = ZFY) NSN 5430-01-372-6900



This manual supersedes TM 5-5430-212-13&P dated 15 September 1986 and TM 5-5430-213-13&P, dated 27 October 1986, including all changes.

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

**HEADQUARTERS, DEPARTMENT OF THE ARMY**

**FEBRUARY 2002**

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON, D.C., 5 February 2002

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**Current as of 30 August 2001**

#### REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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GLOSSARY

INDEX

## HOW TO USE THIS MANUAL

Section I. OVERVIEW -This manual is divided into seven chapters consisting of 36 work packages that provide all the information necessary to operate and maintain the collapsible fabric water tank assemblies.

Section II. INDEXING -This manual contains several types of indexes to help the user locate information quickly and efficiently. The different indexes are as follows:

a. Table of Contents. Lists all chapters and work packages contained in the manual, along with the work package numbers where they begin.

b. Alphabetical Index. Located at the back of the manual, this index lists entries that personnel are most likely to look for. Most listings are provided several times in the index (i.e., "Maintenance Forms and Records" can also be found as "Forms and Records, Maintenance," and "Records, Maintenance Forms and"). This increases the likelihood of finding the information the first place you look. Each entry also lists the work package where the information can be found.

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**OPERATOR, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL  
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)  
TANK, FABRIC, COLLAPSIBLE, WATER, 3,000 AND 5,000 GALLON, SEMI-TRAILER MOUNTED  
GENERAL INFORMATION**

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## **SCOPE**

This technical manual contains instructions for operations, checks and corrective maintenance procedures for the 3,000 and 5,000 Gallon Collapsible Fabric Semi-Trailer Mounted Water Tanks.

Type of Manual: Operator, Unit, and Direct Support Maintenance.

Model Number and Equipment Names: PD62783-3000 and 91093 for the 3,000 gallon tanks, PD62783-4750 and 91094 for the 5,000 gallon Fabric Collapsible Potable Water Semi-Trailer Mounted Tanks.

Purpose of Equipment: The 3,000 and 5,000 gallon collapsible fabric water tanks are utilized with the M127, M871, and the M872 semi-trailers (3,000 gallon tanks), or the M872 (5,000 gallon tank), to store and distribute potable drinking water.

## **MAINTENANCE FORMS, RECORDS, AND REPORTS**

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by (as applicable) DA PAM 738-750, Functional Users Manual for The Army Maintenance Management System (TAMMS); DA PAM 738-751, Functional Users Manual for The Army Maintenance Management System Aviation (TAMMS-A); or AR 700-138, Army Logistics Readiness and Sustainability.

## **CORROSION PREVENTION AND CONTROL (CPC)**

Corrosion Prevention and Control (CPC) of Army materiel is a continuing concern. It is important that any corrosion problems with this item be reported so that the problem can be corrected and improvements can be made to prevent the problem in future items.

While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials, such as rubber and plastic. Unusual cracking, softening, swelling, or breaking of these materials may be a corrosion problem.

If a corrosion problem is identified, it can be reported using SF 368, Product Quality Deficiency Report. Use of key words such as "rust," "deterioration," "corrosion," or "cracking" will ensure that the information is identified as a CPC problem.

The form should be submitted to the address specified in DA Pam 738-750, Functional Users Manual for the Army Maintenance Management System (TAMMS).

## **DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE**

Command decisions, according to tactical situations, will determine when destruction of the collapsible fabric water tank assembly will be accomplished. A destruction plan will be prepared by the using organization, unless higher authority has prepared one. For general destruction procedures for this equipment, refer to TM 750-244-3, Procedures for Destruction of Equipment to Prevent Enemy Use.

**REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIRs)**

If the collapsible fabric water tank assembly 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 (Product Quality Deficiency Report). Mail it to us at Commander, U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-LC-CIP-WT, Rock Island, IL 61299-7630. We will send you a reply

**PREPARATION FOR STORAGE OR SHIPMENT**

Refer to Work Package 0022 00.

**QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)**

Workmanship shall be of the highest quality and shall permit no defects not repaired in accordance with the instructions in this manual. All metal parts shall be clean and free of sand, dirt, etc. The inside and outside of the tank shall be clean and free of foreign material.

**END OF WORK PACKAGE**

**CHAPTER 1**

**DESCRIPTION AND THEORY OF OPERATION**  
**FOR**  
**TANK, FABRIC, COLLAPSIBLE, WATER, 3,000 AND 5,000 GALLONS,**  
**SEMI-TRAILER MOUNTED**



**OPERATOR, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL  
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)  
TANK, FABRIC, COLLAPSIBLE, 3,000 AND 5,000 GALLONS, SEMI-TRAILER MOUNTED  
EQUIPMENT DESCRIPTION AND DATA**

**EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES**

Characteristics, capabilities, and features of the collapsible fabric semi-trailer mounted water tank assemblies include:

- a. The tank is constructed of a chlorobutyl material (a rubber coated multi-ply carcass).
- b. The tank is designed to store and transport potable water.
- c. Pull handles are provided to facilitate positioning the tank while empty.
- d. When not in use, the tank may be folded or rolled, and stored in the sling and shipping container.

**DIFFERENCES BETWEEN MODELS**

The models are similar except for variations in size and capacity.

**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS**

Refer to Work Package 0004 00 for locations.

**EQUIPMENT DATA**

**CAUTION**

**If the tank is used in temperatures below freezing (32°F (0°C)), caution must be used to prevent water in the tank, or in contact with metal parts, from freezing. If water freezes, damage may occur to the tank and/or metal parts.**

**OPERATING TEMPERATURE (AMBIENT)**

LOW ..... -25°F (-31.70°C)  
HIGH ..... 160°F (71.1°C)

**STORAGE TEMPERATURE (AMBIENT)**

LOW ..... -25°F (-31.70°C)  
HIGH ..... 160°F (71.1°C)

**SPECIFICATIONS, MODEL PD62783-3000**

MANUFACTURER ..... Uniroyal, Warsaw, Indiana  
NSN ..... 5430-01-181-4071  
DRY DIMENSIONS ..... 28'L X 7'4"W X 4'H (8.5m x 2.2m x 1.2m)  
HEIGHT (FILLED) ..... 54 inches (137.2cm)  
WIDTH ..... 62 inches (157.5cm)  
LENGTH ..... 27 feet (8.2m) (Approx.)  
WEIGHT (Empty) ..... 600 pounds (272.4kg) (Approx.)  
CAPACITY ..... 3,000 gallons (11,355L)

**SPECIFICATIONS, MODEL 91093**

MANUFACTURER ..... Amfuel, Magnolia, Arkansas  
NSN ..... 5430-01-372-6901  
DRY DIMENSIONS ..... 28'L X 7'4"W X 4'H (8.5m x 2.2m x 1.2m)  
HEIGHT (FILLED) ..... 54 inches (137.2cm)  
WIDTH ..... 62 inches (157.5cm)

LENGTH.....	27 feet (8.2m) (Approx.)
WEIGHT (Empty) .....	600 pounds (272.4kg) (Approx.)
CAPACITY .....	3,000 gallons (11,355L)
<b>SPECIFICATIONS, MODEL PD62783-4750</b>	
MANUFACTURER .....	Uniroyal, Warsaw, Indiana
NSN.....	5430-01-120-7823
DRY DIMENSIONS.....	39'L X 7'4"W X 4'4"H (11.9m x 2.2m x 1.3m)
HEIGHT (FILLED).....	54 inches (137.2cm)
WIDTH.....	62 inches (157.5cm)
LENGTH.....	38 feet (11.6m)
WEIGHT (Empty) .....	825 pounds (375kg)
CAPACITY .....	4,750 gallons (17,979L)
<b>SPECIFICATIONS, MODEL 91094</b>	
MANUFACTURER .....	Amfuel, Magnolia, Arkansas
NSN.....	5430-01-372-6900
DRY DIMENSIONS.....	39'L X 7'4"W X 4'4"H (11.9m x 2.2m x 1.3m)
HEIGHT (FILLED).....	54 inches (137.2cm)
WIDTH.....	62 inches (157.5cm)
LENGTH.....	38 feet (11.6m)
WEIGHT (Empty) .....	825 pounds (375kg)
CAPACITY .....	4,600 gallons (17,411L)

**INFORMATION DATA PLATE**

The following information shall be located on the tank for models 91093 and 91094:

- TORQUE 70 ± 5 IN. LBS
- DRINKING WATER
- TRANSPORT ONLY WHEN COMPLETELY FULL OR EMPTY
- REMOVE GAGE WHEN TRANSPORTING
- OPERATING PRESSURE 5 ± 1 PSIG
- TIE-DOWN STRAP LOCATIONS

The following information shall be located on the tank for models PD62783-3000 and PD62783-4750:

- TORQUE 70 ± 5 IN. LBS
- POTABLE WATER
- TRANSPORT ONLY WHEN COMPLETELY FULL OR EMPTY
- OPERATING PRESSURE 5 ± 1 PSIG
- TIE-DOWN STRAP LOCATIONS

**FITTINGS**

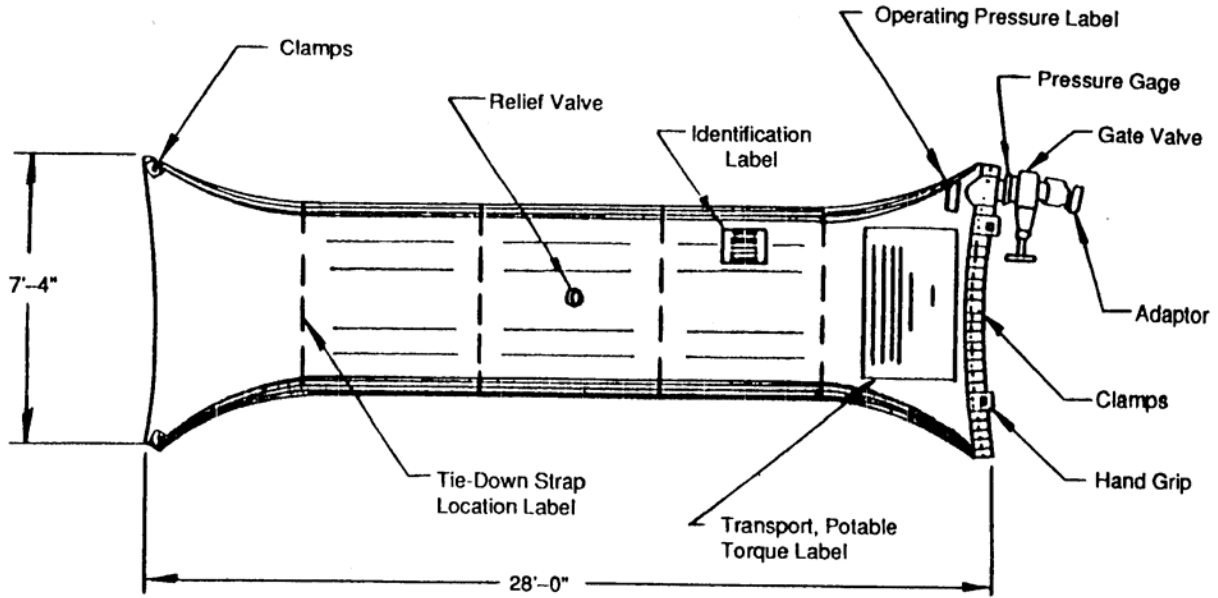
The tank is furnished with a four-inch filler/discharge assembly consisting of a male quick-disconnect, a four-inch gate valve, and a pressure gage, two 10-foot lengths of hose, and a manually operated relief valve located in the top center of the tank.

**TIE-DOWN ASSEMBLY**

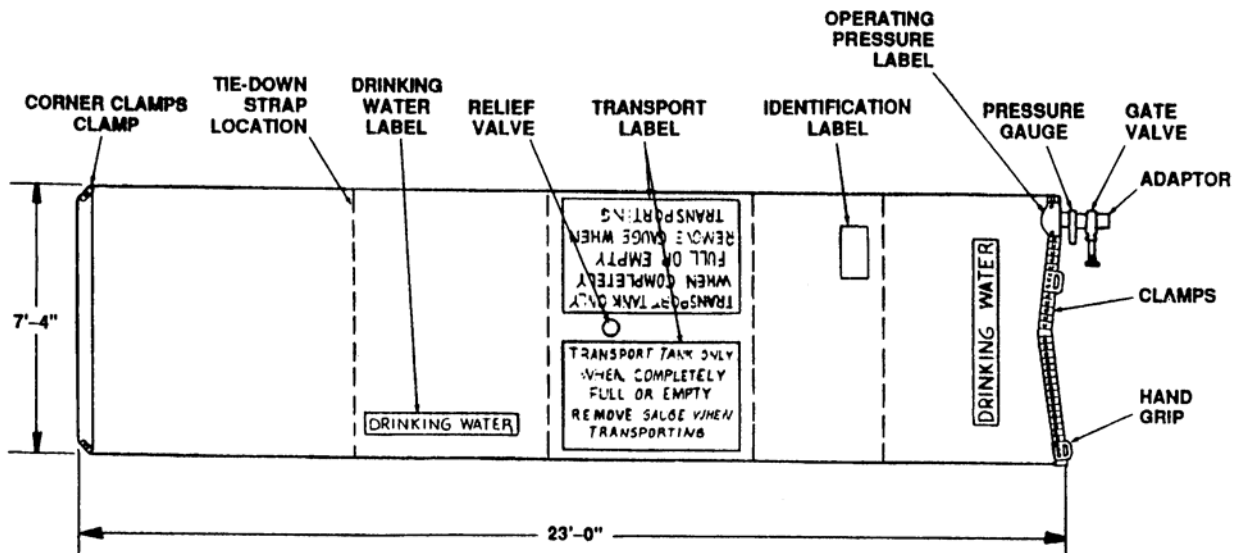
The tie-down kit consists of four belts with eight ratchet take-up mechanisms, and trailer attachments specifically designed to minimize tank movement during transport.

**EMERGENCY REPAIR ITEMS**

The emergency repair kit includes temporary repair items, such as plugs and clamps, to accomplish an emergency repair.



3,000 Gallon Potable Water Tank (Model PD62783-3000)



3,000 Gallon Potable Water Tank (Model 91093)