

TECHNICAL MANUAL

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

FOR

**TANK, UNIT, 600 GALLON, LIQUID
DISPENSING FOR TRAILER MOUNTING
(ADVANCE MODEL TRL 1000 AND
TRL 1616) (HIGHLAND MODEL TRL 1020,
TRL 2000 AND TRL 2500) (UNITED MODEL
TRL 4123) NSN 4930-00-752-9983 (EIC: ZDC)**

DISTIRBUTION STATEMENT A: Approved for public release; distribution is unlimited.

*** This manual supersedes TM 5-4930-220-13&P, 23 May 1990, including all changes.**

HEADQUARTERS, DEPARTMENT OF THE ARMY

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DEPARTMENT OF THE ARMY
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TANK, UNIT, 600 GALLON, LIQUID DISPENSING FOR
TRAILER MOUNTING (ADVANCE MODEL TRL 1000 AND TRL 1616)
(HIGHLAND MODEL TRL 1020, TRL 2000 AND TRL 2500)
(UNITED MODEL TRL 4123) NSN-4930-00-752-9983 (EIC:ZDC)

Current as of 18 May 1993

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 directly to: Commander, U.S. Army Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. A reply will be furnished directly to you.

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CHAPTER 1

INTRODUCTION

Section I. GENERAL INFORMATION

1-1. Scope. This is an operator, unit and direct support maintenance level manual, including Repair Parts and Special Tools List. This manual supports the Advance Model TRK1616 and TRL1 000, the United Model TRL4123 and the Highland Model TRL1020, TRL2000, and TRL2500 600 gallon liquid dispensing tank unit, which is a portable storage tank used for transporting and storing liquid petroleum products.

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. Reporting Equipment Improvement Recommendations (EIRs). If your tank needs improvement, let us know. Send us an E. I. R. You, the user, are the only one who can tell us what you do not like about your equipment. Let us know why you do not like the design. Put it on an SF 368 (Quality Deficiency Report). Mail it to Commander, U.S. Army Aviation and Troop Command, ATTN: AMSAT-I-MDO, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be mailed to you. ■

1-4. Destruction of Army Material to Prevent Enemy Use. Refer to TM 750-244-3, Procedure for Destruction of Equipment to Prevent Enemy Use.

1-5. Administrative Storage of Equipment.

a. Placement of equipment in administrative storage should be for short periods of time when a shortage of maintenance effort exists. 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 should be completed, shortcomings and deficiencies should be corrected, and all modification work orders (MWCYs) 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, conex containers and other containers may be used.

d. Refer to Chapter 4, Section VI, paragraph 4-18 for procedures to move equipment to a new worksite.

Section II. EQUIPMENT DESCRIPTION

1-6. Equipment Characteristics, Capabilities and Features.

a. Portable storage used for transporting and storing liquid petroleum products.

b. Used with M1061 A1 series trailers.

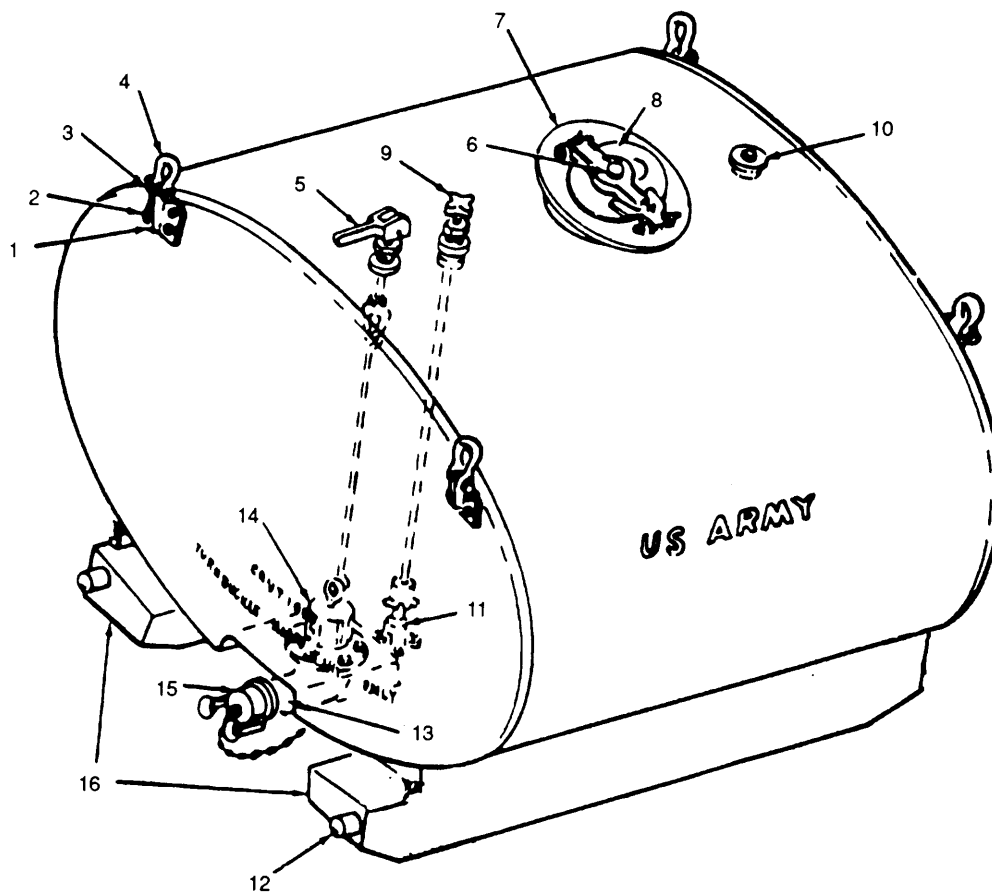
c. Lifting eyes on top of tank facilitates loading onto the trailer.

d. Equipped with skids and holddown assemblies with adjustable turnbuckles for securing to trailer head.

e. Tank assembly welded and fabricated from aluminum.

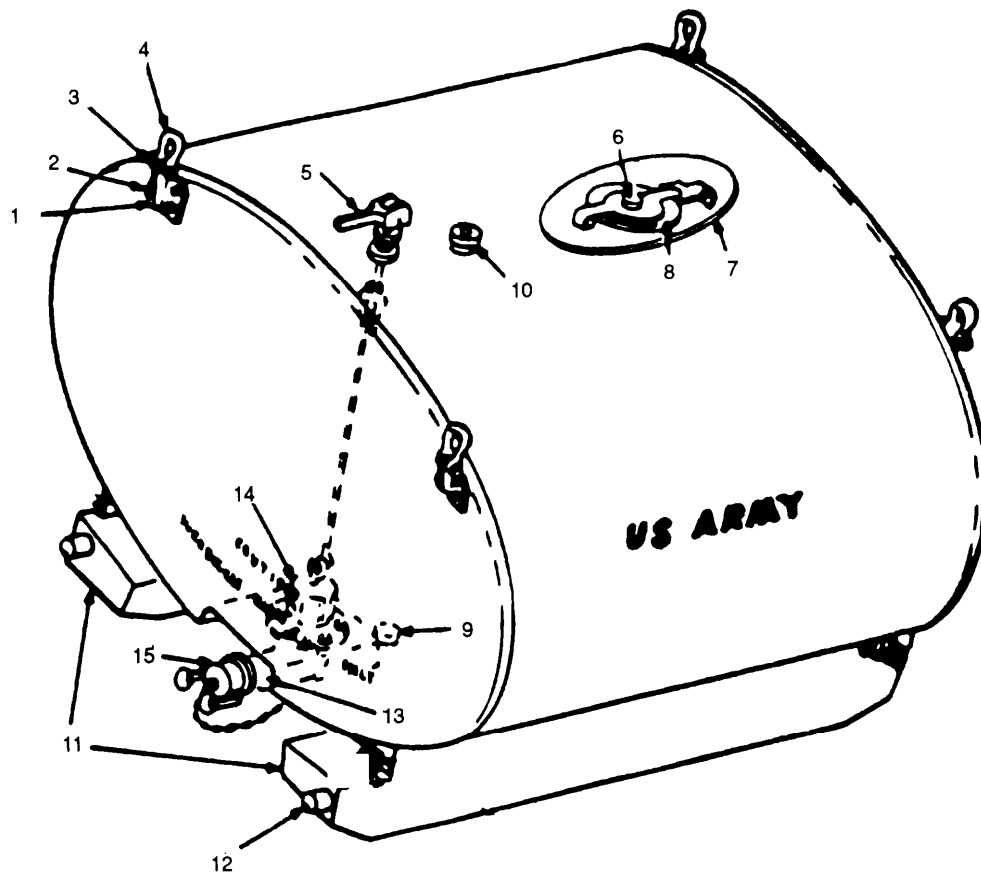
f. Tank is filled and serviced through the manhole on top of the tank

1-7. Location and Description of Major Components.



- | | |
|-----------------------|--------------------------|
| 1. Bracket | 10. Pump port |
| 2. Bolt | 11. Drain valve |
| 3. Nut | 12. Interlock |
| 4. Lifting eye | 13. Emergency dump valve |
| 5. Control lever | 14. Inlet strainer valve |
| 6. Vent assembly | 15. Dust cap |
| 7. Manhole cover | 16. Skids |
| 8. Filler plug | |
| 9. Drain valve handle | |

Figure 1-1. Tank unit assembly (Except Advance Model TRL 1000).



- | | | | |
|----------------|------------------|---------------|--------------------------|
| 1. Bracket | 5. Control lever | 9. Drain plug | 13. Emergency dump valve |
| 2. Bolt | 6. Vent assembly | 10. Pump port | 14. Inlet strainer valve |
| 3. Nut | 7. Manhole cover | 11. Skids | 15. Dust cap |
| 4. Lifting eye | 8. Filler plug | 12. Interlock | |

Figure 1-2. Tank unit assembly (Advanced Model TRL 1000).

a. Skids. Used to stabilize the Tank Unit Assembly and provide a place for it to be mounted (16 Figure 1-1 and 11, Figure 1-2)

b. Emergency Dump Valve. Used for dispensing liquid. Located on the bottom front of the Tank Unit between the skids (13, Figure 1-1 and Figure 1-2)

c. Tank. Used for storage and transporting of liquid petroleum products (Figure 1-1 and Figure 1-2)

d. Interlock. The male interlocks are secured by clamping adapters, with the female end by socket adapters.

e. Control Lever. Operates the emergency dump valve (13, Figure 1–1 and Figure 1–2) to allow dispensing of liquid petroleum products or draining of the tank unit.

f. Vent Assembly. Allows the release of pressure buildup within the tank unit assembly.

g. Pump Port. Provides coupling of a hand pump to retrieve liquid from the tank unit assembly.

1-8. Differences Between Models. Table 1-1 shows the differences between models.

Table 1-1. DIFFERENCES BETWEEN MODELS

TANK FUNCTION	TRL1010	TRL2000	TRL2500	TRL1616	TRL1000	TRL4123
Buckeye Model 5 Nozzle Assembly			X			
OPW Model 190GA Nozzle Assembly	X	X		X	X	X
Drain Plug					X	
Drain Valve and Handle	X	X	X	X		X
Without Drain Hose					X	
Pump Port located at rear of tank					X	
Pump Port located at front of tank	X	X	X	X		X