

TECHNICAL MANUAL

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

FOR

**SEMITRAILER, TANK: 5000 GALLON,
(POTABLE WATER DISPENSING)
XM1098 (NSN 2330-01-330-2779)**

Approved for public release; distribution is unlimited.

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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 direct to: Commander, U.S. Army Tank-Automotive Command, ATTN: AMSTA-MB, Warren, MI 48397-5000. A reply will be furnished to you.

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

This manual is for your use in operating and maintaining the M1098 5000 gallon potable water tank dispensing semitrailer. The water tanker engine and dispensing equipment are unique in Army applications to this vehicle. It also includes references, components of end item lists, an additional authorization list, a maintenance allocation chart, and an expendable supplies and materials list.

1-2. Maintenance Forms and Records

Equipment maintenance forms and procedures for their use are contained in DA PAM 738-750, The Army Maintenance Management System (TAMMS).

1-3. Preparation for Storage or Shipment

For information on preparing the M1098 water tank semitrailer for storage or shipment, refer to chapter 4 Section XX.

1-4. Destruction of Army Materiel to Prevent Enemy Use

Refer to TM 750-244-6 for information and instructions on destroying this equipment.

1-5. Reporting of Equipment Improvement Recommendations (EIRs)

If your semitrailer needs improvement. let us know. Send us an EIR. You, the user, are the only one who can tell is what you don't like about your equipment. Let us know why you don't like the design. Tell us why a procedure is hard to perform. Put it on an SF 368 (quality deficiency report). Mail it to: Commander, U.S. Army Tank-Automotive Command, ATTN: AMSTA-MP, Warren, MI 48397-5000. A reply will be furnished to you.

1-6. Quality Assurance/Quality Control (QA/QC)

Quality assurance inspections shall be performed in accordance with requirements in TM 750-245-4.

Section II. DESCRIPTION AND DATA

1-7. Description, Fig. 1-1.

a. Basic Configuration The trailer is designed to be towed by a truck tractor equipped with a fifth wheel. Authorized 5-ton truck tractors are the M52A2, M818, M931, M931A1, M932, and M932A1. When driving on hard surface highways only, the 5-ton military-adapted commercial 6X4 truck tractors, M915 and M915A1, are also authorized.

b. Common Operations The M1098 water tank semitrailer can be loaded through the bottom or through the top fill opening. The potable water tank is also designed to provide self-load/unload capability to load through a one-cylinder, four-stroke diesel engine, and unique pump assembly.

c. Construction The trailer has a stainless steel, single compartment baffled tank of 5000 gallon capacity, plus 3% capacity for product expansion. The chassis is constructed of welded steel and is equipped with full floating tandem axles and manually operated landing gear.

d. M 1098 Water Tank Semitrailer The M1098 water tank semitrailer is equipped with pressure and vacuum vents, hose troughs, sealed manhole, bulk hoses, and spare tire. A ladder is provided at the rear of the semitrailer for access to the top manhole. It has an engine/pump combination unique to the water tank. The one-cylinder, four stroke diesel engine, rated at 10 HP, and centrifugal pump are the major pumping components. At maximum engine horsepower, the self-priming pump has a performance rating of 250 gpm at 15psi and 50 gpm at 96 psi.

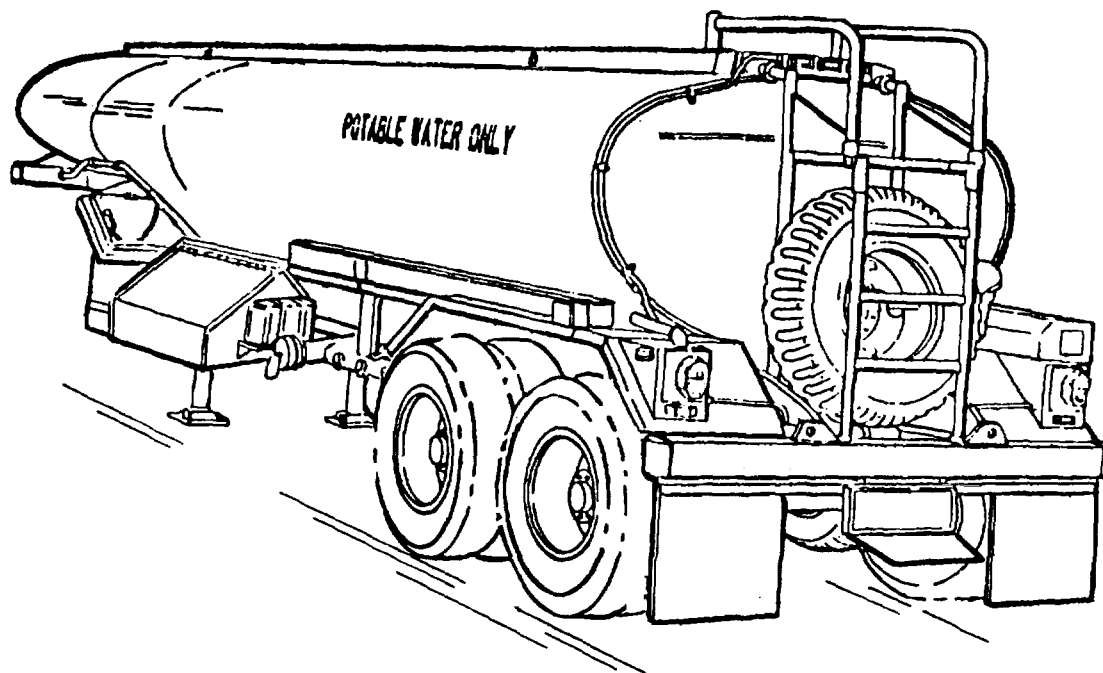
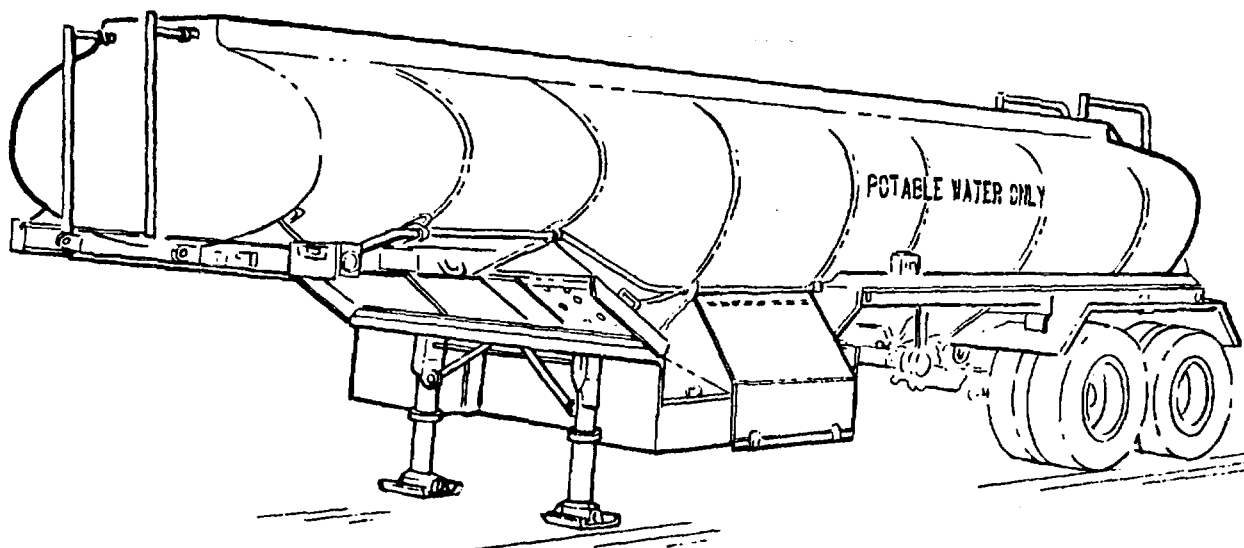


Figure 1-2. M1098 Water Tank Semitrailer, Left Front and Rear Views