

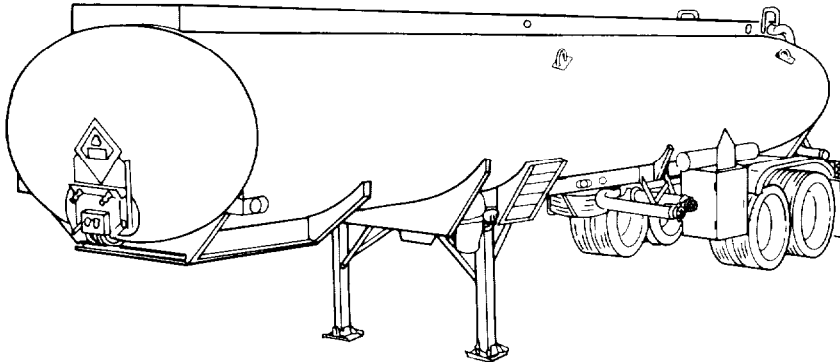
OPERATOR'S, UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL

INCLUDING
REPAIR PARTS AND SPECIAL TOOLS LISTS

FOR

SEMITRAILER, TANK, FUEL, 7500 GALLON, M1062
(2330-01-275-7475)

Fruehauf Corporation
Liquid and Bulk Tank Division
Contract No. DAAE07-87-C-J061



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TECHNICAL MANUAL

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HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D.C., 9 July 1990

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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or 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 and Armaments Command, ATTN: AMSTA-AC-NML, Rock Island, IL 61299-7630. A reply will be furnished to you.

You may also provide DA Form 2028-2 information to TACOM via datafax or e-mail:

- TACOM's fax number is DSN 793-0726 or (309) 782-0726
- TACOM's e-mail address is amsta-ac-nml@ria-emh2.army.mil

Current as of 4 May 1990

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CHAPTER 1

INTRODUCTION

Section I. GENERAL INFORMATION

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1-1. SCOPE.

a. This manual describes the operation and unit, direct support, and general support maintenance of the M1062 7500 Gallon Fuel Tank Semitrailer, including repair parts and special tools lists.

b. Throughout the manual, the terms *curbside* and *roadside* are used to describe views of the semitrailer. As viewed from the rear, *curbside* is the right side and *roadside* is the left side.

1-2. MAINTENANCE FORMS, RECORDS, AND REPORTS.

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 destruction of Army materiel to prevent enemy use, refer to TM 750-244-6.

1-4. PREPARATION FOR STORAGE OR SHIPMENT.

For information on preparing the M1062 7500 Gallon Fuel Tank Semitrailer for storage or shipment, refer to Chapter 4, Section XVI.

1-5. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIRs).

If your M1062 7500 Gallon Fuel Tank Semitrailer 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 what you don't like about the design or performance. Put it on an SF Form 368 (*Quality Deficiency Report*). Mail it to us at: Commander, U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-IM-OPIL, Warren, MI 48397-5000. We will send you a reply.

Section II. EQUIPMENT DESCRIPTION AND DATA

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1-6. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES.

a. The M1062 7500 Gallon Fuel Tank Semitrailer is a military adapted commercial semitrailer designed to provide bulk petroleum line haul support over primary and secondary roads.

b. The semitrailer is designed to be towed by the M915/915A1/A2 tractor equipped with a fifth wheel. Maximum allowable speed is 55 mi/h (88 km/h) on primary roads and 35 mi/h (56 km/h) on secondary roads.

c. The semitrailer is capable of occasional hard bottom, salt- or freshwater fording to a depth of 20 in. (50.8 cm) without any special servicing or protection before or after fording.

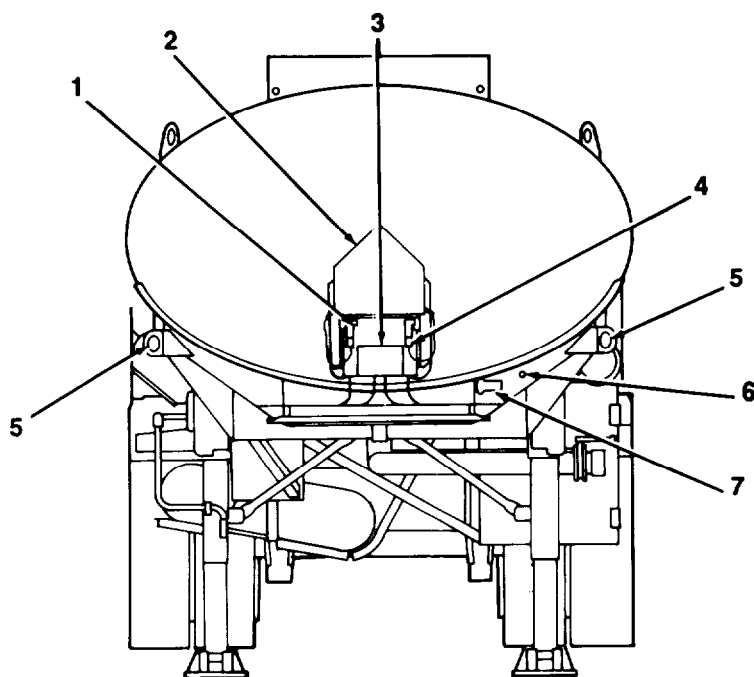
d. All semitrailers are equipped with:

- (1) A single compartment aluminum tank with a capacity of 7500 gallons plus 3% for expansion. The tank is equipped with seven baffles, having offset manways, to minimize fuel surge when in transit or when bottom loading.
- (2) A piping assembly containing a roadside front port and a rear inlet. Fuel may be bottom loaded at either opening and unloaded at front port ONLY.
- (3) One manhole assembly with one 10 in. (25.4 cm) fill cover used during top loading. One automatic vacuum vent and one automatic pressure/vacuum vent are installed into fill cover. Manhole allows access to tank for inspection and repair.
- (4) An automatic shut-off device (jet level sensor) mounted just inside the tank at the manhole opening. When bottom loading, fuel flow will shut off when tank capacity is reached.
- (5) A strainer assembly, located in jet level sensor circuit, which filters all fuel being bottom loaded.
- (6) A precheck system which operates from cabinet and functions to predict jet level sensor failure.
- (7) A vapor collection system allows for venting of vapors created during bottom loading and unloading.
- (8) An electrical system which operates under standard or blackout modes and includes:
 - (a) 12-volt electrical connector. Supplies 12 volts directly to the semitrailer's lights.
 - (b) 24-volt electrical connector. Supplies 24 volts directly to the blackout lights. With voltage reduction provided by the voltage control unit, supplies 12 volts to the semitrailer lights.
 - (c) ON/OFF toggle switch for optional convoy warning light (see Appendix D).
 - (d) Mounting bracket for convoy warning light at rear of roadside overturn rail.
- (9) Tandem axles with dual-mounted wheels.

1-6. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES (Con't).

- (10) Full air, S-cam automatically adjusted brake components mounted on each axle. Front and rear air reservoirs are mounted to frame brackets and are connected by air hoses to four axle-mounted brake chambers.
- (11) A brake interlock system which automatically sets the semitrailer parking/emergency brakes during fuel bottom loading and unloading.
- (12) A bolt-on upper coupler assembly.
- (13) Landing gear with removable sand shoes. Two-speed operation is controlled by a curbside handcrank.

1-7. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS.



FRONT VIEW

KEY	NAME	FUNCTION
1	Air Couplings	EMERGENCY air coupling (roadside) and SERVICE air coupling (curbside) connect to tractor EMERGENCY and SERVICE air supply.
2	Placard Bracket	Provides a means to display fuel warning and fuel identification number. Located also at roadside, rear, and curbside of semitrailer.
3	Voltage Control Unit	Contains 12-volt and 24-volt receptacles. Regulates and directs power flow to semitrailer lights.
4	Dummy Couplings	Protect EMERGENCY and SERVICE air couplings from dust and damage.
5	Front Clearance and Marker Lights	Mark front of semitrailer.
6	Grounding Stud	Unpainted ball used to attach grounding cables. Located also at rear, top, and sides of semitrailer.
7	Emergency Valve Remote Trip-Release	Closes emergency valve from front of semitrailer.