TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL AND DIRECT SUPPORT

MAINTENANCE MANUAL

TANK AND PUMP UNIT, LIQUID DISPENSING

FOR TRUCK MOUNTING (UNITED MANUFACTURING

AND ENGINEERING CORP. MODEL STYLE 1)

NSN 4930-00-542-2800,

(MODEL 2519) NSN 4930-00-987-8576,

(MODEL 2938) NSN 4930-00-078-4939,

(BOWSER INC. MODEL 36W50)

NSN 4930-00-078-4938

(ORR AND SEMBOWER INC. MODEL BL-100)

NSN 4930-00-926-3692

(ALTECH INC. MODEL 4000)

NSN 4930-00-926-3581

This copy is a reprint which includes current pages from Changes 1 through 7.

HEADQUARTERS, DEPARTMENT OF THE ARMY

31 JULY 1980

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HEADQUARTERS
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WASHINGTON, D. C., 31 July 1980

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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 back of this manual direct to: Commander, US Army Aviation and Troop Command, ATTN: AMSAT–I–MP, 4300 Goodfellow Blvd., St. Louis, MO 631 20–1798. A reply will be furnished to you.

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CHAPTER 1
INTRODUCTION

SECTION 1. GENERAL

1-1. SCOPE.

This manual is for use in operating and maintaining the tank and pump unit powered by a four hp gasoline engine or electric motor. It includes instructions for operator, organizational and direct support maintenance of the tank and pump unit.

1-2. MAINTENANCE FORMS AND RECORDS.

DA forms and records used for equipment maintenance are explained in DA PAM 738-750. The Army Maintenance Management System (TAMMS).

1-3. ADMINISTRATIVE STORAGE.

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 maintenance services and equipment serviceable criteria (ESC) evaluations should be completed, shortcomings and deficiencies should be corrected, and all modification work orders (MWO'S) 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.

1-4. DESTRUCTION OF ARMY MATERIAL TO PREVENT ENEMY USE.

For information on procedures for destruction of equipment to prevent enemy use, refer to TM 750-244-3.

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

ElR's will be prepared on SF-368 Quality Deficiency Report. Instructions for preparing ElR's are provided in DA PAM 738-750, The Army Maintenance Management System. ElR's should be mailed directly to Commander, Headquarters, U.S. Army Troop Support Command, ATTN: AMSTR-QX, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished directly to you.

SECTION II. DESCRIPTION AND DATA

1-6. DESCRIPTION.

a. General. The tank and pump unit (figures 1-1 and 1-2) consists of a 50 gpm (189 liters per minute) pumping assembly, two 600-gallon (2271-liter) tanks and related items. It is designed for use with 5-ton Cargo Trucks such as M-54, M-55, M813A1, M814, M923, M924, M925 and M926. When installed in a cargo truck, the tank and pump unit is used in the field as a bulk carrier and dispenser. It carries 1200 gallons (4542 liters). The purpose of the tank and pump unit is to convert a general purpose military cargo vehicle into the bulk refueler. The maintenance paragraphs contain detailed descriptions of its components. (NOTE: Electric Motor Driven Pump requires Slave Receptacle mounted at right rear side of cab).

b. Pump Unit. The pump unit of the tank and pump unit includes the pump, engine, filter/separator, reels and other related items of equipment. Refer to figures 1-2 and 1-3 for views of different models.

c. Engine Driven Pump. The pump (figure 1-4) is a self-priming unit, with the impeller screwed on the extension of the engine crankshaft. The pump is coupled to the engine by an intermediate coupler. Both pump and engine are mounted on a base plate to facilitate removal and use in auxiliary pumping operations.

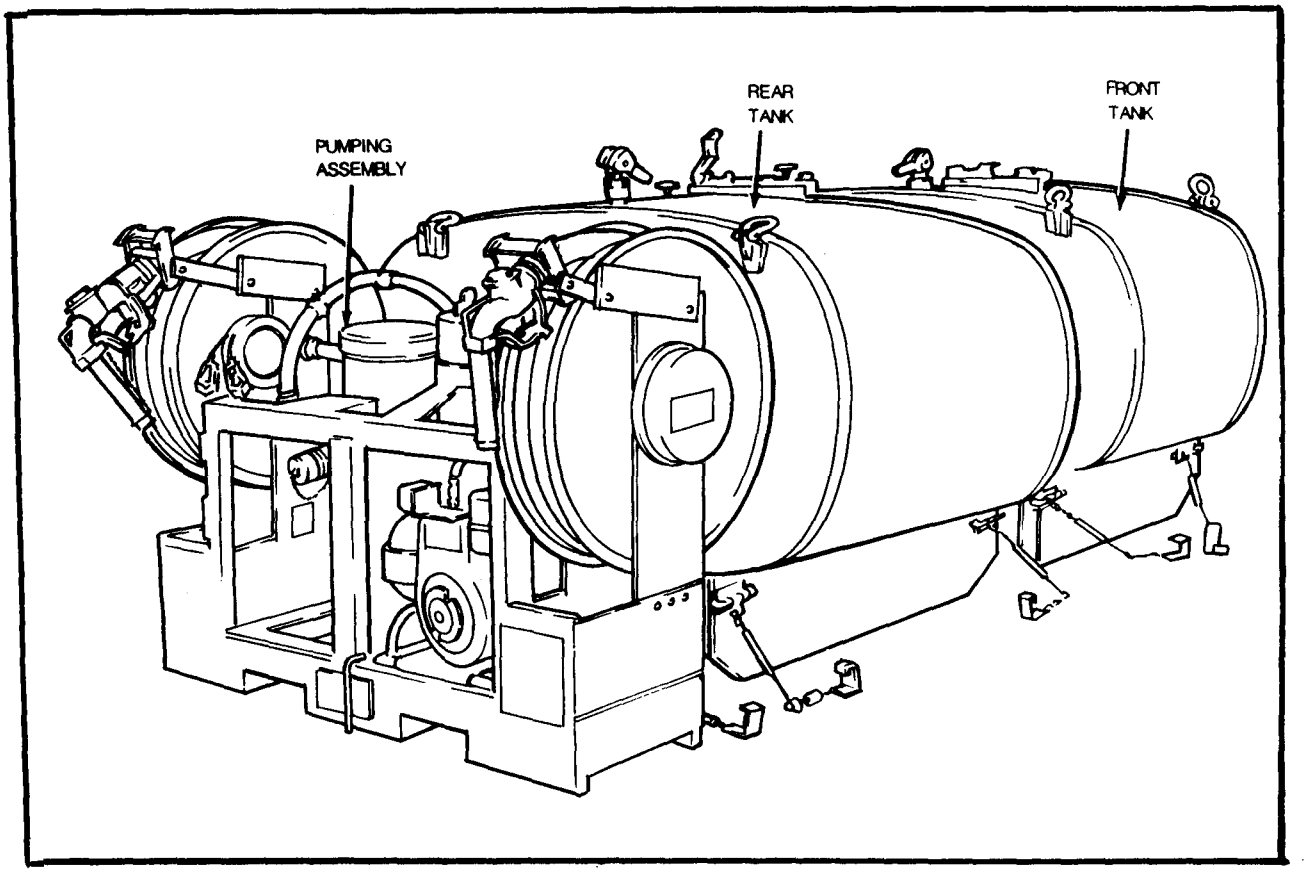

Figure 1-1. Tank and Pump Unit.

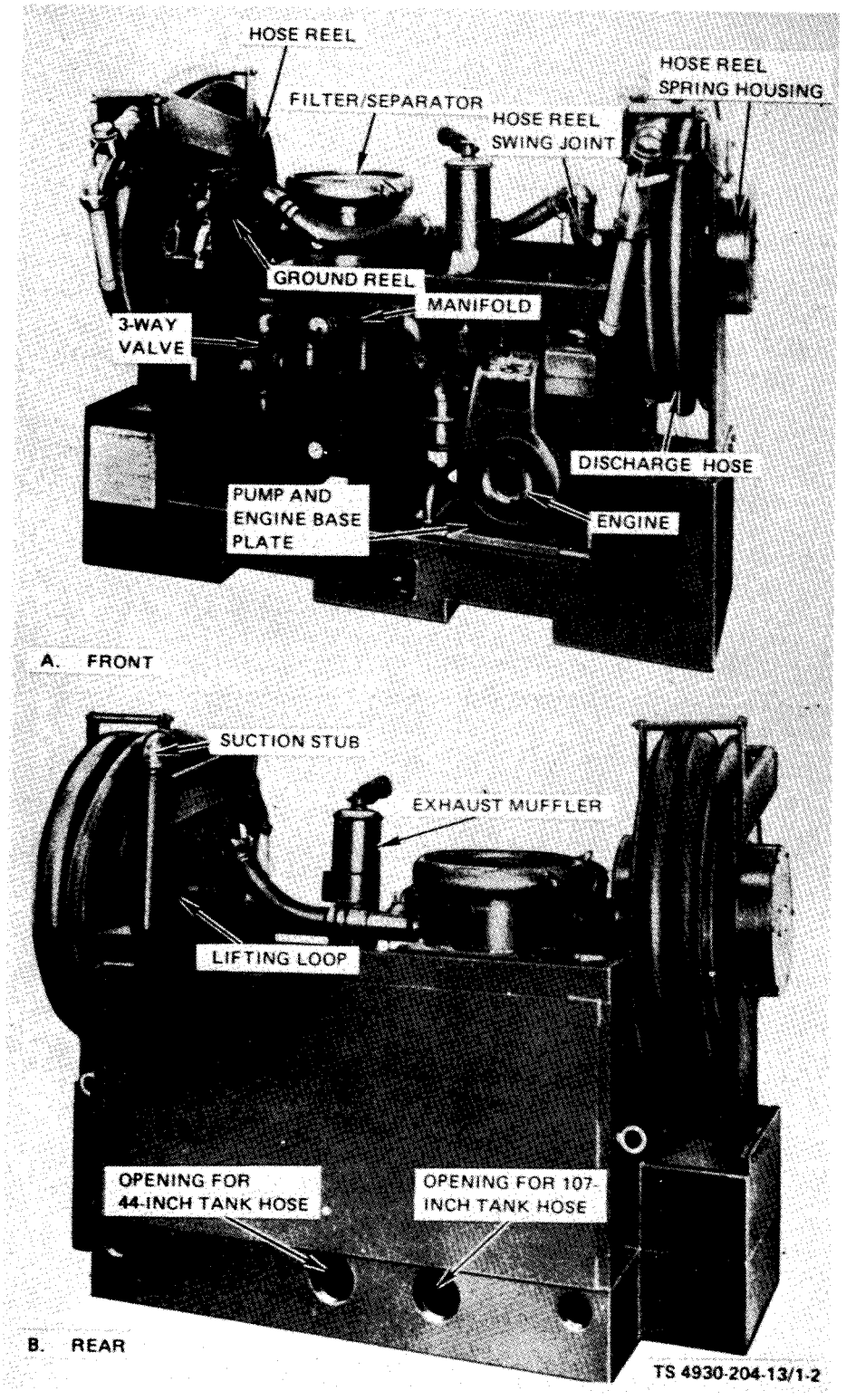

Figure 1-2. Model 2519 Pumping Assembly, Front and Rear View.