DEPARTMENT OF THE ARMY TECHNICAL MANUAL

TECHNICAL MANUAL

OPERATOR, ORGANIZATIONAL DIRECT AND GENERAL SUPPORT MAINTENANCE MANUAL

**PUMP ASSEMBLY, FLAMMABLE LIQUID;
BULK TRANSFER;
GASOLINE ENGINE DRIVEN;
350-GPM CAPACITY AT 190
FOOT HEAD; WHEEL MOUNTED
(GORMAN-RUPP MODEL 84C15-4A084)
FSN 4320 - 916 - 9172
AND (BARNES MODEL US36ACG) FSN 4320-407-2583**

This copy is a reprint which includes current pages from Changes 1 through 3.

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OPERATOR, ORGANIZATIONAL, DIRECT AND GENERAL SUPPORT MAINTENANCE MANUAL PUMP ASSEMBLY, FLAMMABLE LIQUID; BULK TRANSFER; GASOLINE ENGINE DRIVEN; 350-GPM CAPACITY AT 190 FOOT HEAD; WHEEL MOUNTED (GORMAN-RUPP MODEL 84C15-4A084) FSN 4320-916-9172 AND (BARNES MODEL US36ACG) FSN 4320-07-2583

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CHAPTER 1
INTRODUCTION

Section 1. GENERAL

1-1. Scope

These instructions are published for your use in operating and maintaining the Gormann-Rupp pump assembly, model 84C15-4A084. or Barnea pump assembly, model US36ACG.

1-2. Forms and Records

Maintenance forms, records, and reports, which are to be used by maintenance personnel at all maintenance levels, are listed in and prescribed by TM 38-750.

1-3. Reporting of Errors

Report of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on Form 2028 (Recommended Changes to Publications) and forwarded direct to Commanding General, U. S. Army Mobility Equipment Command, ATTN: AMSME-MPP, 4300 Goodfellow Boulevard, St. Louis, Mo. 63120. A reply will be furnished directly to you.

1-4. Equipment Serviceability Criteria (ESC).

There are no ESC's applicable to this equipment.

1-5. Destruction of Army Materiel to Prevent Enemy Use

Refer to TM 750-244-3 for information pertaining to destruction of equipment to prevent enemy use.

1-6. Administrative Storage

Refer to TM 730-90-1 for information and instructions pertaining to administrative storage.

Section II. DESCRIPTION AND DATA

1-7. Description

a. General. The Gormann-Rupp pump assembly, model 84C15-4A084 or Barnes pump assembly, model US36ACG (fig. 1-1 and 1-2) is a self-contained, wheel mounted, self-priming unit designed for bulk transfer of flammable liquid petroleum fuels. It is powered by a four-cylinder gasoline engine directly coupled to the pumping assembly. Instruments and controls necessary for operation of the unit are mounted on the instrument panel. Additional controls include two suction valves, two discharge valves, air -venting valve, and discharge check valve.

b. Engine. Refer to TM 5-2805-259-14 for a description of the Military Standard engine, model 4A084-111.

c. Pump Assembly. The pump assembly is a four-inch conventional type self-priming centrifugal pump designed to deliver 350 gpm (gallons per minute) with a 190 ft. head.

d. Trailer. The trailer is constructed of welded steel members and is equipped with two wheels for towing at speeds up to 20 miles per hour on surfaced roads. A collapsible stand is provided at the rear of the trailer to support the unit during operation. The trailer is provided with a removable drawbar assembly. A pintle hook is added for towing additional equipment.

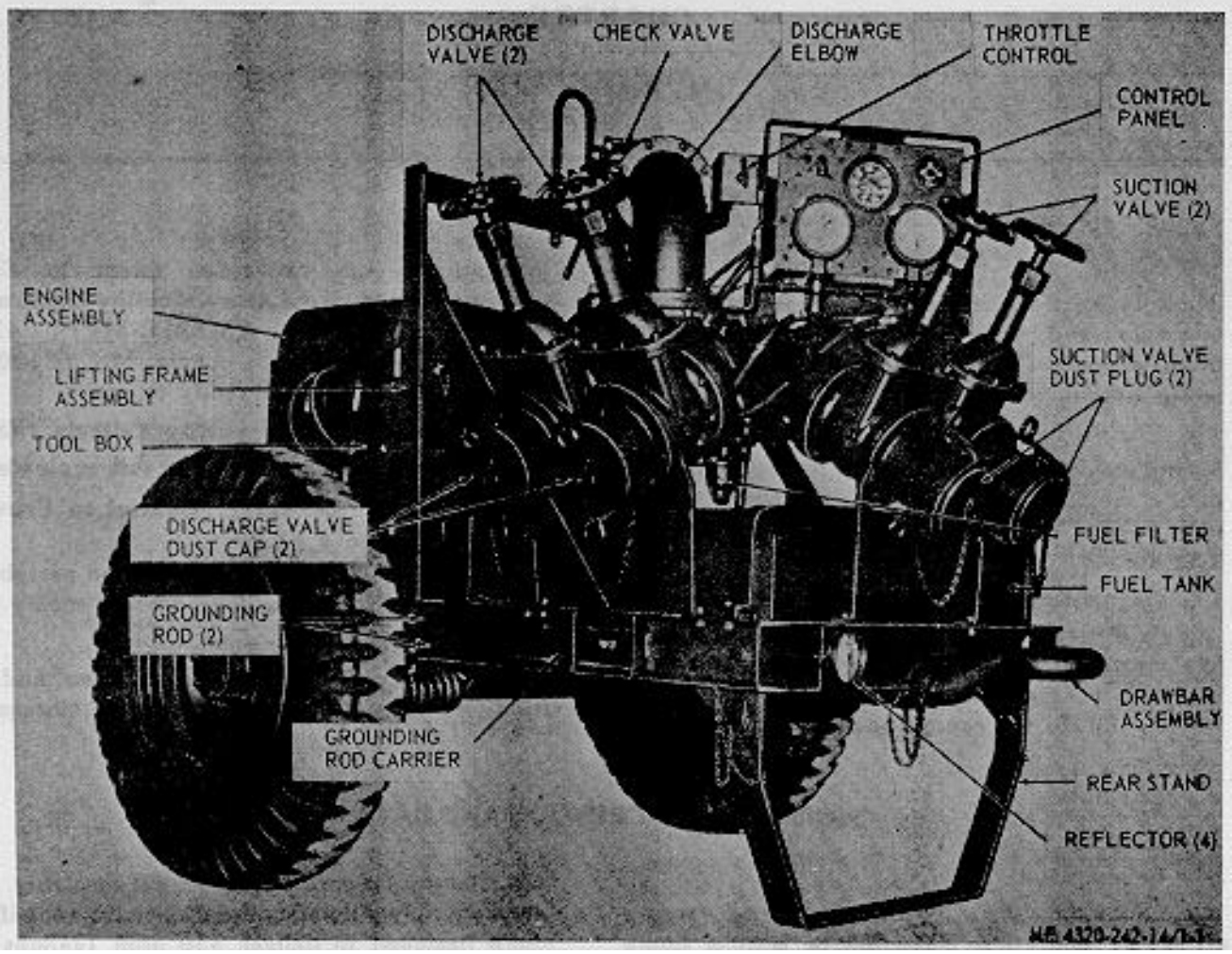

Figure 1-1. Pump assembly, right-front, three-quarter view.