

OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT
AND GENERAL SUPPORT MAINTENANCE MANUAL
PUMP, RECIPROCATING, POWER DRIVEN
DIAPHRAGM, GAS ENGINE DRIVEN, WHEEL
MOUNTED, 100 GPM
THE GORMAN-RUPP COMPANY
MODEL 4D-2A016
FSN 4320-407-2582

TECHNICAL MANUAL }
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HEADQUARTERS,
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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

This technical manual covers the operation and operator's maintenance, organizational maintenance, and direct and general support maintenance for Pump, Reciprocating, Power-Driven, Diaphragm, Gas-Engine-Driven, Wheel Mounted, 100 GPM, Federal Stock No. 4320-407-2582, German-Rupp Model 4D-2A016, manufactured by German-Rupp Company, Mansfield, Ohio.

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. Equipment Serviceability Criteria

Not Applicable.

1-4. Reporting of Errors

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

Section II. DESCRIPTION AND DATA

1-5. Description

a. Reciprocating Pump Model 4D-2A016 (fig. 1-1) is driven by an air-cooled, two-cylinder, Military Standard gasoline engine. The torque

from the engine is transferred to the pump through a flexible coupling. The engine and pump are bolted to a two-wheeled steel trailer.

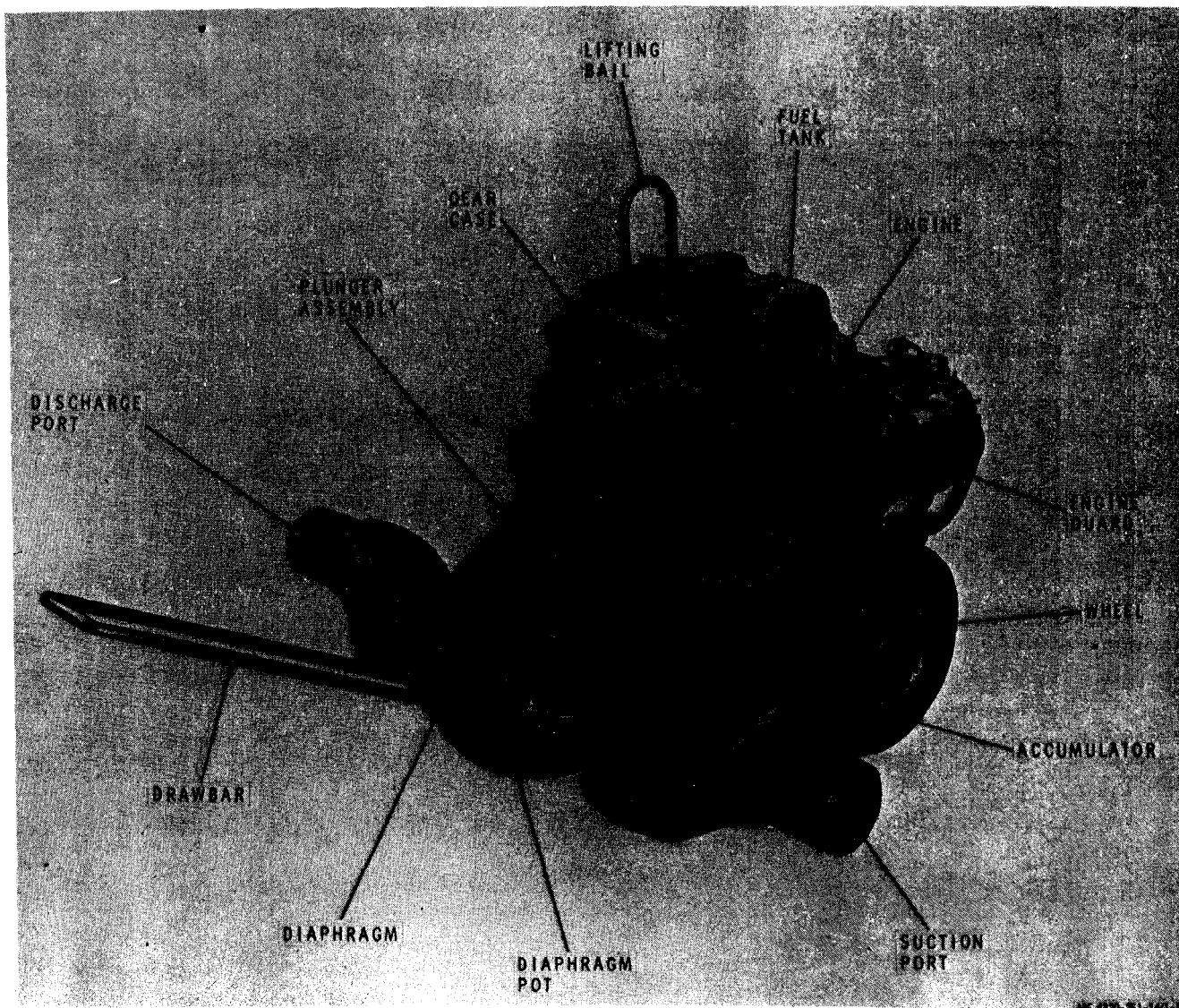


Figure 1-1. Reciprocating pump, left front view,

b. The pump has one suction port and one discharge port. These are threaded to receive suction and discharge hoses, Thread size is 4-inch npt male. Four 10-foot suction hoses are provided with the pump. The pump is capable of pumping 100 gallons per minute at a total dynamic head of 35 feet.

1-6. Differences between Models

This technical manual covers only Reciprocating Pump Model No. 4D-2A016, manufactured by German-Rupp Company, Mansfield, Ohio. No known differences exist on the pumps procured under this model number.

1-7. Identification and Tabulated Data

a. *Identification.* The reciprocating pump has three identification plates.

(1) *Army data plate.* The army data plate is

located on the coupling guard between the pump and engine. It specifies the nomenclature, contract number, model number, manufacturer, capacity, dimensions, weight, and cubage.

(2) *Engine plate.* The engine plate is located on the flywheel housing. It specifies the number of cylinders, displacement, Federal Stock Number, serial number, and model number. It lists the date of manufacture, contract number, and applicable technical manuals.

(3) *Pump plate.* The pump plate is located on the gear case on the right side of the pump. It specifies the manufacturer, model number, serial number, and patent information.

b. *Tabulated Data.*

(1) *Pump.*

Manufacturer German-Rupp Company
Model 4D-2A016