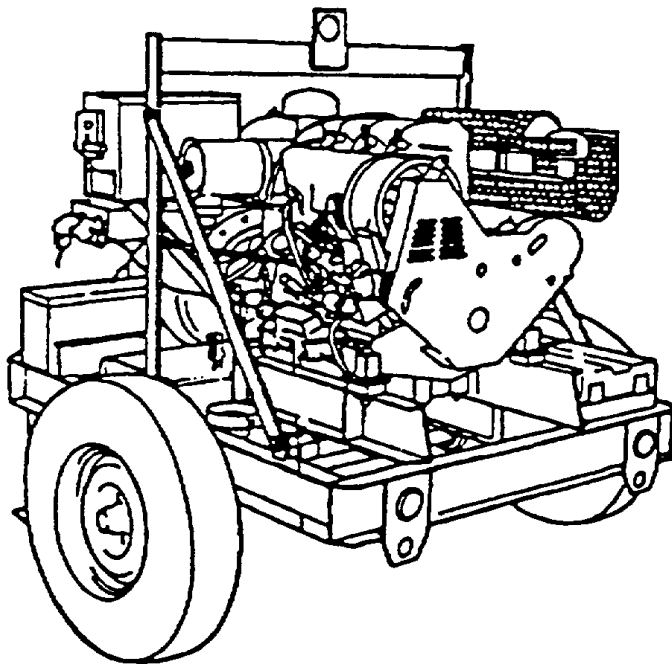


TECHNICAL MANUAL

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

FOR
FUEL PUMPING ASSEMBLY, DIESEL ENGINE DRIVEN,
WHEEL MOUNTED, 350 GALLONS PER MINUTE (GPM),
275 FOOT HEAD, MODELS:
350 PAF (NSN 4320-01-092-3551),
LPP-TM (NSN 4320-01-215-7671),
W-8646 (NSN 4320-01-246-4398),
LC 350 GPM (NSN 4320-01-259-5965),
AND
FUEL PUMPING ASSEMBLY, DIESEL ENGINE DRIVEN,
WHEEL MOUNTED, 350 GALLONS PER MINUTE (GPM),
275 FOOT HEAD WITH REGULATOR, MODELS:
ADC 1500 (NSN 4320-01-141-5154)
350 PAFN (NSN 4320-01-437-3161)



**EQUIPMENT
DESCRIPTION**

**OPERATING
INSTRUCTIONS**

**OPERATOR PREVENTATIVE
MAINTENANCE CHECKS
AND SERVICES (PMCS)**

**OPERATOR MAINTENANCE
PROCEDURES**

**UNIT PREVENTATIVE
MAINTENANCE CHECKS
AND SERVICES (PMCS)**

**UNIT MAINTENANCE
PROCEDURES**

**DIRECT SUPPORT
MAINTENANCE
PROCEDURES**

**GENERAL SUPPORT
MAINTENANCE
PROCEDURES**

**MAINTENANCE
ALLOCATION
CHART**

GLOSSARY

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***This manual, together with TM 10-4320-226-14
supersedes TM 5-4320-226-14,15 August 1984**

**HEADQUARTERS, DEPARTMENT OF THE ARMY
30 JULY 1993**

TECHNICAL MANUAL
NO. 10-4320-343-14

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 30 July 1993

Operator, Unit, Direct Support, and General Support
Maintenance Manual

FUEL PUMPING ASSEMBLY, DIESEL ENGINE DRIVEN,
WHEEL MOUNTED, 350 GALLONS PER MINUTE (GPM),
275 FOOT HEAD, MODELS:
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275 FOOT HEAD WITH REGULATOR, MODELS:
ADC 1500 (NSN 4320-01-141-5154)
350 PAFN (NSN 4320-01-437-3161)

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 and Armaments Command, ATTN: AMSTA-AC-NML, Rock Island, IL 61299-7630. We will send you a reply.

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HOW TO USE THIS MANUAL

DESCRIPTION OF THE MANUAL.

Manual Organization. This manual is designed to help you operate and maintain the 350 Gallon Per Minute (GPM) Pump. Read the warning pages located in the front of the manual before operating or doing maintenance on the equipment.

The front cover of this manual provides an index that lists subjects covered by each chapter, section, and appendix. Chapters 2 through 6 has also have a subject index that lists the major paragraphs in alphabetical order under the section title.

The Table of Contents is provided for a quick reference to subjects covered by each chapter, section, and appendix. Chapters 2 through 6 also have a subject index that lists the major paragraphs in alphabetical order under the section title.

The major elements of this manual are its chapters and appendixes. The chapter and appendixes can be divided into one or more sections. This manual has six chapters and seven appendixes.

The glossary that follows the last appendix lists and explains the special or unique abbreviations and the unusual terms used in this manual.

An alphabetical index follows the glossary. That index is for use in locating specific items of information.

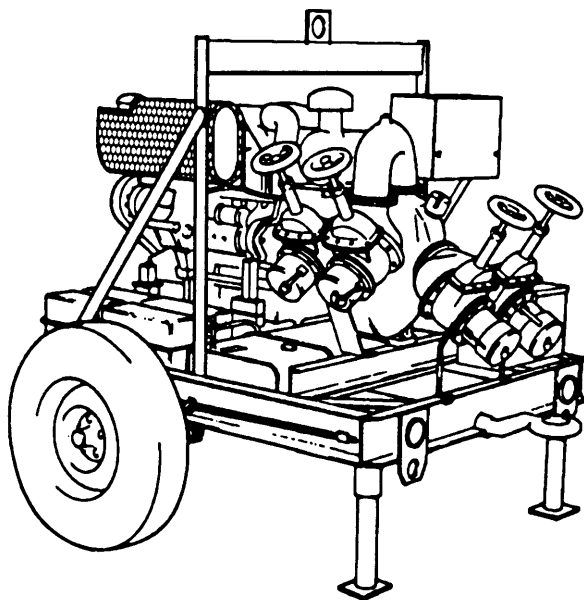
Locating a Malfunction. Finding the cause of a malfunction, troubleshooting, is the first step in fixing the equipment and returning it to operation. Follow these simple steps to determine the root of the problem:

- a. Turn to the Table of Contents in the manual.
- b. Locate "Troubleshooting" under the chapter that covers your level of maintenance. Turn to the page indicated.

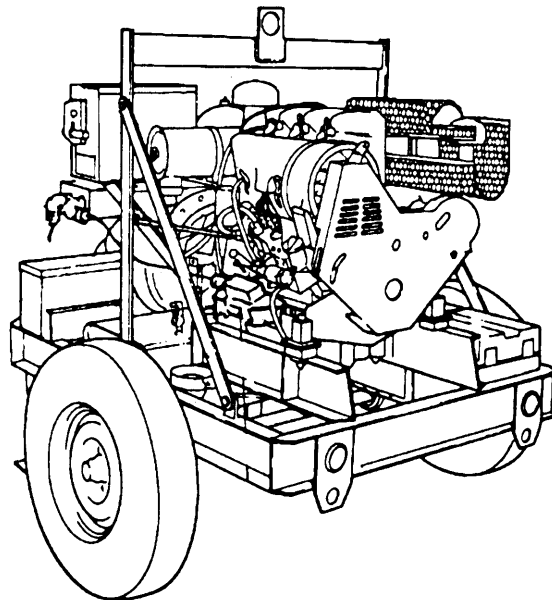
Preparing for a Task. Be sure that you understand the entire maintenance procedure before beginning any maintenance task. Make sure that all parts, materials, and tools are handy. Read all steps before beginning. Prepare to do the task as follows:

- a. Carefully read the entire task before starting. It tells you what you will need and what you have to know to start the task.
- b. Obtain all listed equipment, tools, and parts.

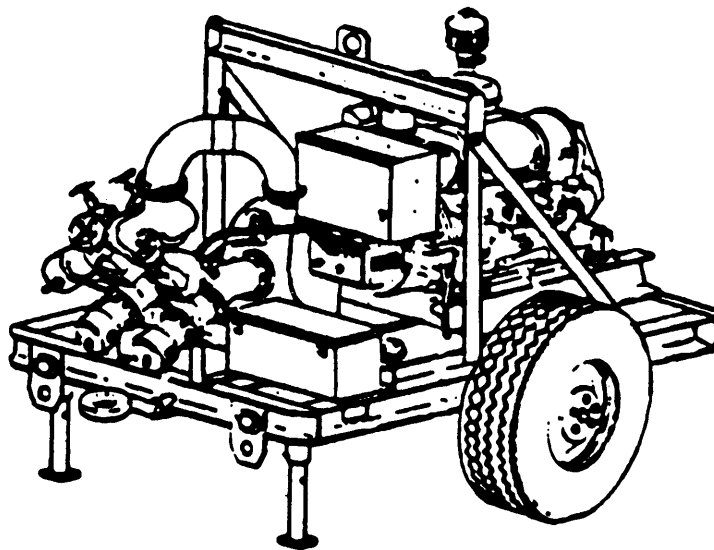
How to do the Task. Read the entire task. Be sure that you understand the entire procedure. Perform the task. Be sure to obey all WARNINGS and CAUTIONS.



UNREGULATED



UNREGULATED



REGULATED

Figure 1-1. 350 GPM Pumping Assembly

CHAPTER 1

INTRODUCTION

SECTION I. GENERAL INFORMATION

1.1 SCOPE.

This manual is for your use in operating and maintaining the 350 Gallons per minute (GPM) Diesel Driven Pumping Assembly, Model 350 PAF (NSN 4320-01-092-3551), Model LPP-TM (NSN 4320-01-215-7671), Model W-8646 (NSN 4320-01-246-4398), Model LC 350 GPM (NSN 4320-01-259-5965), Model ADC1500 with regulator (NSN 4320-01-141-5154) and Model 350 PAFN with regulator (NSN-4320-01-437-3161). Figure 1-1 illustrates the equipment. The manual covers operating instructions and operator, unit, direct support, and general support maintenance requirements for the equipment.

1.2 MAINTENANCE FORMS AND PROCEDURES.

Department of the Army forms and procedures used for equipment maintenance of this equipment will be those prescribed by DA PAM 738-750, (The Army Maintenance Management System (TAMMS)) (Maintenance Management Update).

1.3 CORROSION PREVENTION AND CONTROL (CPC).

Corrosion Prevention and Control (CPC) of Army material is a continuing concern. It is important that any corrosion problems with this item be reported so that the problem can be corrected and improvements can be made to prevent the problem in future items.

While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials, such as rubber and plastic. Unusual cracking, softening, swelling, or breaking of these materials may be a corrosion problem.

The form should be sent to the address specified in DA PAM 738-750.

1.4 DESTRUCTION OF ARMY MATERIAL TO PREVENT ENEMY USE.

Refer to TM 750-244-3 for instructions on destruction of Army material to prevent enemy use.

1.5 EQUIPMENT IMPROVEMENT RECOMMENDATION (EIR).

If your pumping assembly needs improvement, let us know. Send us an Equipment Improvement Recommendation (EIR). You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on Form SF 368 (Product Quality Deficiency Report). Mail it to us at Commander, U.S. Army Tank-Automotive and Armaments Command, ATTN: AMSTA-TR-E/MPA, Warren, Michigan 48397-5000. We will send you a reply.

1.6 PREPARATION FOR STORAGE.

Refer to Section VI of Chapter 4.

1.7 NOMENCLATURE CROSS-REFERENCE LIST.

Table 1-1 provides a cross-reference listing of the common names to official nomenclature.