TECHNICAL MANUAL

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

FOR

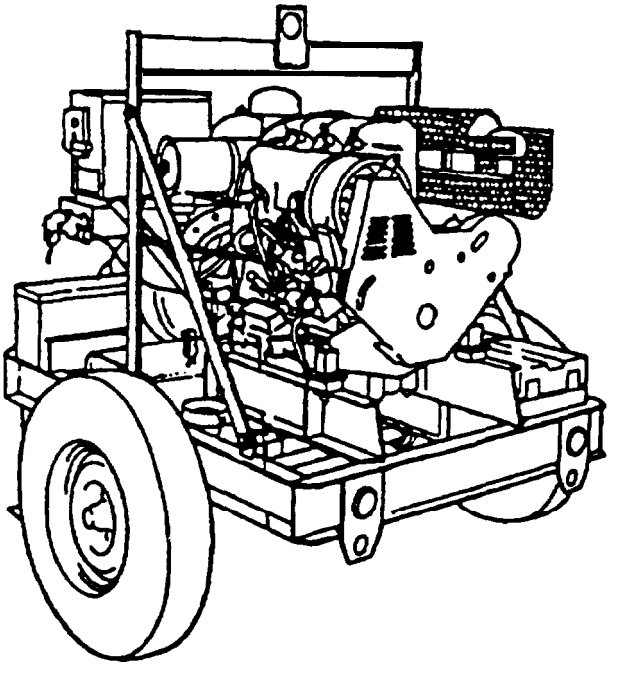
WATER PUMPING ASSEMBLY, DIESEL ENGINE DRIVEN, WHEEL MOUNTED, 350 GALLONS PER MINUTE (GPM), 275 FOOT HEAD, MODELS:

350 PAW (NSN 4320-01-158-2954),

W-87012 (NSN 4320-01-265-2168)

AND

350 PAWN (NSN 4320-01-436-0188)



EQUIPMENT DESCRIPTION

OPERATING INSTRUCTIONS

OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

OPERATOR MAINTENANCE PROCEDURES

UNIT PREVENTIVE 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 10-4320-343-14, supersedes TM 5-4320-226-14,15 August 1964

HEADQUARTERS, DEPARTMENT OF THE ARMY

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

WATER PUMPING ASSEMBLY, DIESEL ENGINE DRIVEN, WHEEL MOUNTED, 350 GALLONS PER MINUTE (GPM), 275 FOOT HEAD, MODELS: 350 PAW (NSN 4320-01-158-2954), W-87012 (NSN 4320-01-265-2168) AND 350 PAWN (NSN 4320-01-436-0188)

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 A reply will be furnished to you.

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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 gpm Pumping Assemblies covered in this manual. 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 that are commonly used. Each item indexed on the front cover has a black box at the edge of the cover. There is a corresponding black box on the first right-hand text page for each subject listed on the cover index.

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

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

A glossary follows the last appendix. The glossary 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 matfunction, troubleshooting, is the first step in fixing the equipment and returning it to operational readiness. 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.
c. 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 available. 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 expendables.

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.***

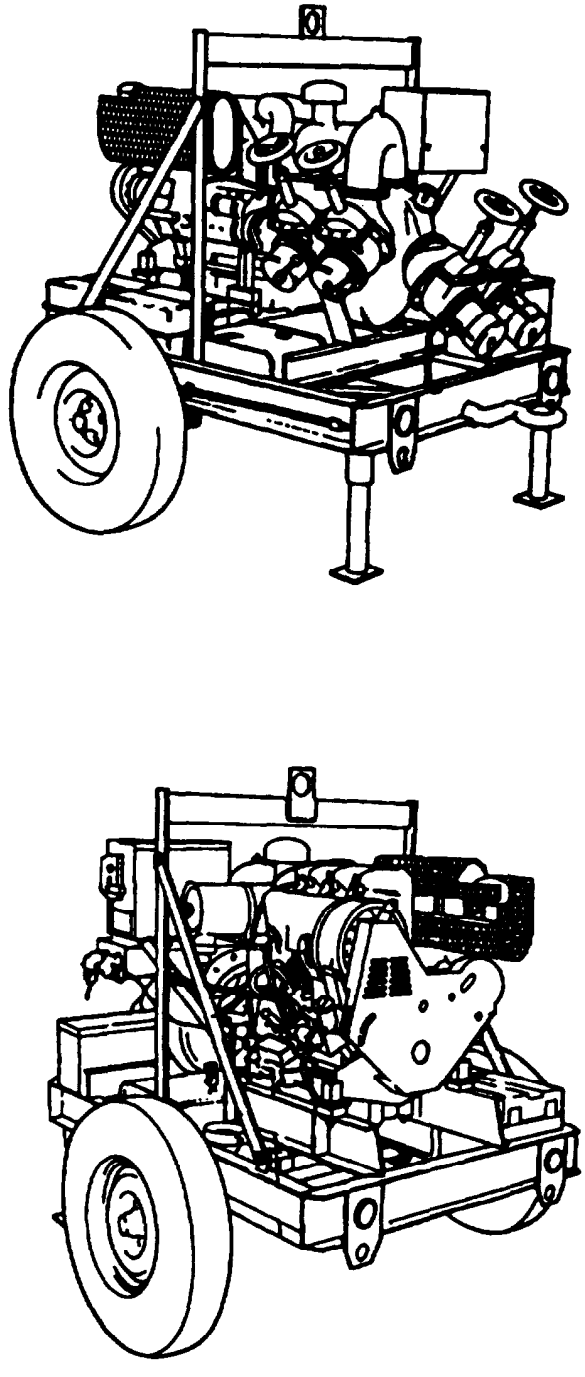

Figure 1-1. 350 GPM Pumping Assembly(All Models).

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, Models 350 PAW (NSN 4320-01-158-2954), W-87012 (NSN 4320-01-265-2168) and 350 PAWN (NSN 4320-01-436-0188). 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 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 submitted to the address specified in DA PAM 738-750.

1.4 DESTRUCTION OF ARMY MATERIAL TO PREVENT ENEMY USE.

Refer to TM 750-244-3for 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 for storage requirements of the pumping assembly.

1.7 NOMENCLATURE CROSS-REFERENCE LIST

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