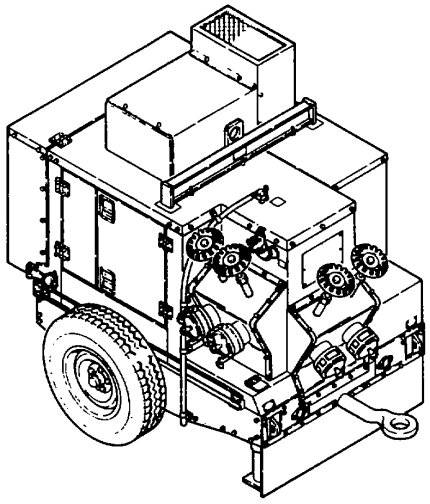
TECHNICAL MANUAL

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



**PUMPING ASSEMBLY,
FLAMMABLE LIQUID, BULK TRANSFER
DIESEL ENGINE DRIVEN, WHEEL MTD,
350 GPM, 275 FT. HEAD,
MODEL 13229E8400 (97403)
(FUEL USE ONLY)**

**PUMP UNIT, CENTRIFUGAL, DIESEL
ENGINE DRIVEN, WHEEL MTD,
350 GPM, 275 FT. HEAD,
MODEL 13229E8401 (97403)
(WATER USE ONLY)**

INTRODUCTION 1-1

OPERATING INSTRUCTONS 2-1

OPERATOR'S MAINTENANCE INSTRUCTIONS 3-1

UNIT MAINTENANCE INSTRUCTIONS 4-1

DIRECT SUPPORT MAINTENANCE INSTRUCTIONS 5-1

GENERAL SUPPORT MAINTENANCE INSTRUCTIONS 6-1

REFERENCES A-1

MAINTENANCE ALLOCATION CHART B-1

COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LISTS C-1

ADDITIONAL AUTHORIZATION LIST D-1

EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST E-1

TORQUE LIMITS F-1

INDEX I-1

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H E A D Q U A R T E R S , D E P A R T M E N T O F T H E A R M Y
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DEPARTMENT OF THE ARMY
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OPERATOR'S, UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL

PUMPING ASSEMBLY, FLAMMABLE LIQUID, BULK TRANSFER, DIESEL ENGINE DRIVEN, WHEEL MTD, 350 GPM, 275 FT. HEAD, MODEL 13229E8400 (97403) (FUEL USE ONLY)

PUMP UNIT, CENTRIFUGAL, DIESEL ENGINE DRIVEN WHEEL MTD, 350 GPM, 275 FT. HEAD MODEL 13229E8401 (97403) (WATER USE ONLY)

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 these 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 directly to: Commander, US Army Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. You may also submit your recommended changes by E-mail directly to <mpmt%avma28@st-louis-emh7.army.mil>. A reply will be furnished directly to you. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028.

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TABLE OF CONTENTS

How to Use This Manual iv
CHAPTER 1 INTRODUCTION 1-1
Section I General Information 1-1
Section II Equipment Description 1-4
Section III Technical Principles of Operation 1-12

CHAPTER 2 OPERATING INSTRUCTIONS 2-1
Section I Description and Use of Operator's Controls and Indicators 2-1
Section II Preventive Maintenance Checks and Services 2-2
Section III Operation Under Usual Conditions 2-9
Section IV Operation Under Unusual Conditions 2-19

CHAPTER 3 OPERATOR'S MAINTENANCE INSTRUCTIONS 3-1
Section I Lubrication Instructions 3-1
Section II Troubleshooting Procedures 3-1
Section III Operator Maintenance Procedures 3-9

TABLE OF CONTENTS (CONT)

CHAPTER 4	UNIT MAINTENANCE INSTRUCTIONS	4-1
Section I	Repair Parts, Special Tools, TMDE, and Support Equipment	4-2
Section II	Service Upon Receipt	4-3
Section III	Preventive Maintenance Checks and Services (PMCS)	4-4
Section IV	Troubleshooting	4-9
Section V	Maintenance Procedures	4-19
Section VI	Preparation for Storage or Shipment	4-196
CHAPTER 5	DIRECT SUPPORT MAINTENANCE INSTRUCTIONS	5-1
Section I	General Information	5-1
Section II	Troubleshooting	5-2
Section III	Maintenance Procedures	5-6
CHAPTER 6	GENERAL SUPPORT MAINTENANCE INSTRUCTIONS	6-1
Section I	General Information	6-1
Section II	Maintenance Procedures	6-8
APPENDIX A	REFERENCES	A-1
APPENDIX B	MAINTENANCE ALLOCATION CHART	B-1
APPENDIX C	COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LISTS	C-1
APPENDIX D	ADDITIONAL AUTHORIZATION LIST	D-1
APPENDIX E	EXPENDABLE/DURABLE SUPPLIES AND MATERIALS	E-1
APPENDIX F	TORQUE LIMITS	F-1

LIST OF ILLUSTRATIONS

Number	Title	Page
1-1	Pumping Assembly	1-2
1-2	Major Components	1-5
1-3	Major Components	1-6
1-4	Major Components	1-7
1-5	Major Components	1-8
1-6	Major Components	1-9
1-7	Fuel System Function Diagram	1-12
1-8	Lubrication System Functional Diagram	1-13
1-9	Cold Start System Functional Diagram	1-14
1-10	Electrical Schematic	1-16
1-11	Pumping System Functional Diagram	1-17
2-1	PMCS Locations (Left Side View)	2-4
2-2	PMCS Locations (Right Side View)	2-5
4-1	PMCS Locations (Left Side View)	4-5
4-2	PMCS Locations (Right Side View)	4-6

LIST OF TABLES

Number	Title	Page
1-1	Equipment Data	1-10
1-2	Significant Hazards	1-11
2-1	Operator/Crew Preventive Maintenance Checks and Services (PMCS)	2-6
2-2	Performance Data	2-14
3-1	Troubleshooting	3-2
4-1	Preventive Maintenance Checks and Services	4-7
4-2	Troubles hooting	4-150
4-3	Valve Clearance (Engine Cold)	5-2
5-1	Troubleshooting	5-15
5-2	Starter No-Load Test Specifications	5-15
6-1	Wear Limits, Fits, and Tolerances	6-2

HOW TO USE THIS MANUAL

This manual is designed to help operate and maintain the 350 GPM Pumping Assembly. Listed below are some of the special features that have been included to help locate and use the needed information.

A front cover Table of Contents is provided for quick reference to chapters and sections that will be used often.

Warning, caution and note headings, subject headings, and certain other essential information are printed in bold type to make them easier to see.

The maintenance tasks describe what must be done to the pumping assembly before starting the task, and what must be done to return the pumping assembly to operating condition after the task is finished.

In addition to text, there are exploded-view illustrations showing you how to take the part off and to put it on. Cleaning and inspection procedures are also included, when required.

Chapters 1 and 2 of this manual are directed at the crew/operator of the pumping assembly. These chapters include an overall description of the pumping assembly and discuss the controls and indicators, their location and use, and the instructions for operation of the pumping assembly under different circumstances.

Chapter 3 of this manual covers crew/operator lubrication, preventive maintenance checks and services and basic troubleshooting. Crew/operator maintenance is also covered in this chapter.

Chapter 4 of this manual covers unit maintenance including preventive maintenance checks and services, troubleshooting and maintenance procedures.

Chapter 5 of this manual covers direct support maintenance including troubleshooting and maintenance procedures.

Chapter 6 of this manual covers general support maintenance.

The appendixes are located at the end of the manual. They contain a reference guide to other manuals, guidelines to reading the Maintenance Allocation Chart (MAC), a list of expendable supplies and materials, and other material for maintaining the pumping assembly.

FOLLOW THESE GUIDELINES WHEN USING THIS MANUAL

The operator must read through this manual and become familiar with the contents before attempting to operate the pumping assembly.

Read all WARNINGS and CAUTIONS before performing any procedure.

CHAPTER 1

INTRODUCTION

Para	Contents	Page
1-8	Calibration	1-3
1-20	Cold Start System	1-14
1-9	Destruction of Army Material to Prevent Enemy Use	1-4
1-15	Difference in Models	1-10
1-21	Electrical System	1-15
1-12	Equipment Characteristics, Capabilities, and Features	1-4
1-14	Equipment Configuration	1-4
1-16	Equipment Data	1-10
1-18	Fuel System	1-12
1-3	Hand Receipt (-HR) Manuals	1-1
1-7	List of Abbreviations	1-3
1-13	Location and Description of Major Components	1-4
1-19	Lubrication System	1-13
1-2	Maintenance Form and Records	1-1
1-6	Nomenclature Cross-Reference List	1-3
1-10	Preparation for Storage or Shipment	1-4
1-22	Pumping System	1-17
1-11	Quality Assurance/Quality Control (QA/QC)	1-4
1-4	Reporting Equipment Improvement Recommendations (EIRs)	1-3
1-17	Safety, Care, and Handling	1-11
1-1	Scope	1-1
1-5	Warranty Information	1-3

Section I. GENERAL INFORMATION

1-1. Scope.

a. This manual contains operational and maintenance instructions for the operator, unit, direct and general support maintenance for pumping assemblies fitted with noise enclosures.

b. This manual covers the 13229E8400 Bulk Transfer, Flammable Liquid Pumping Assembly and the 13229E8401 Centrifugal Pump Unit (Figure 1-1), hereafter called the pumping assembly.

c. The purpose of the pumping assembly is to transfer gasoline, jet fuels, light liquid petroleum fuels, and water. One model has been designated for fuel transfer only and one model designated for water transfer only.

1-2. Maintenance Form and Records.

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

1-3. Hand Receipt (-HR) Manuals.

This paragraph is not applicable.

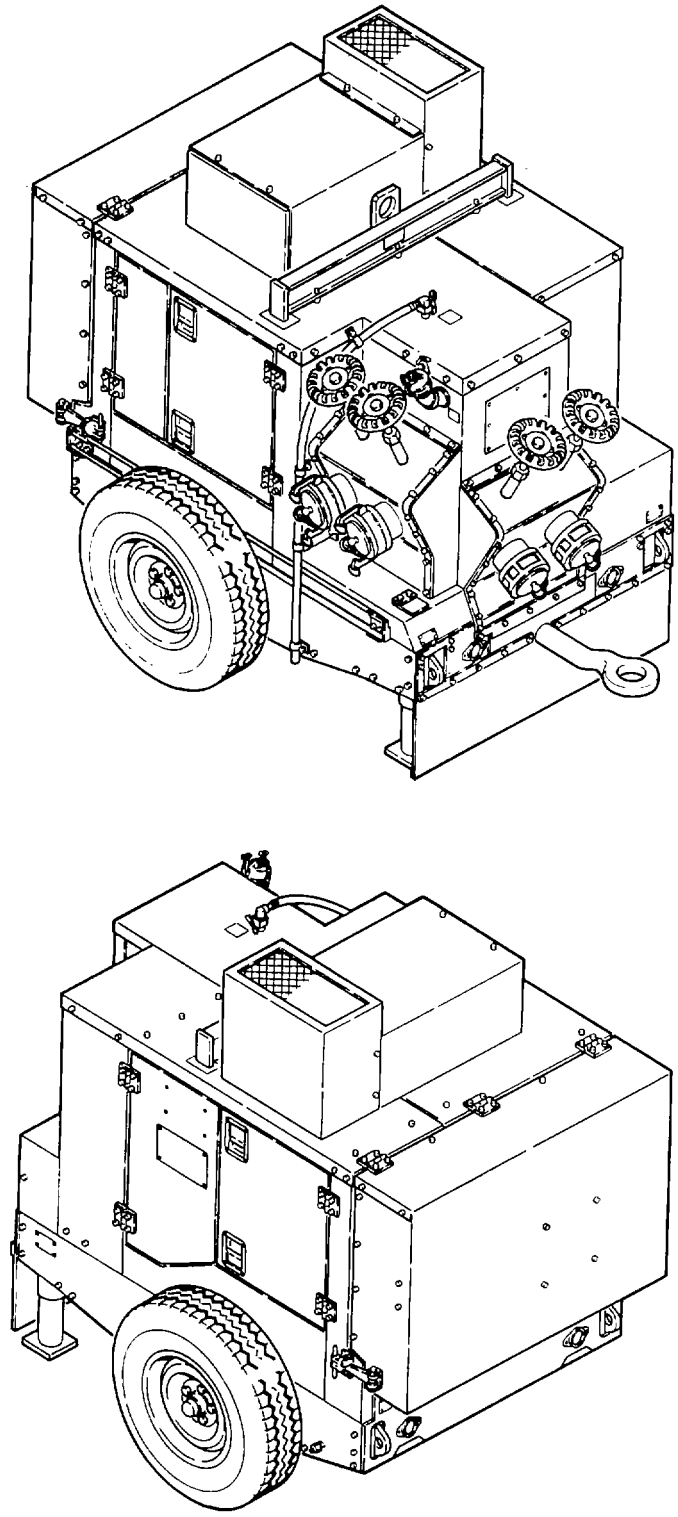

Figure 1-1. Pumping Assembly.