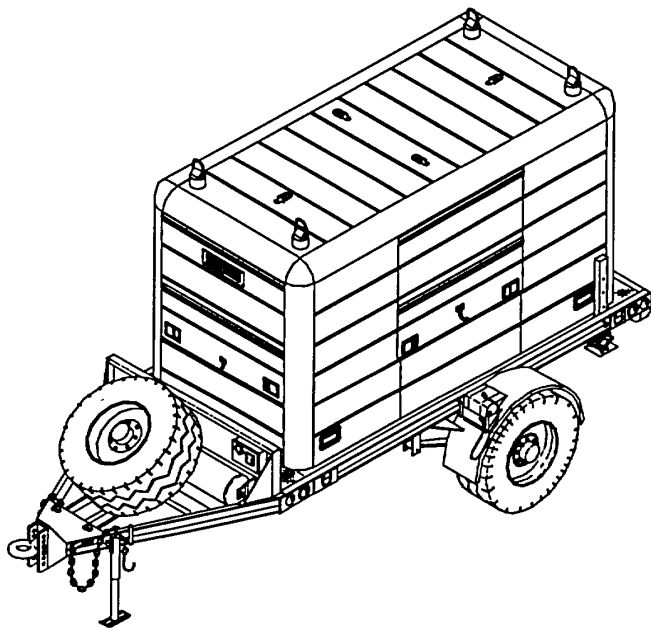


TECHNICAL MANUAL**OPERATOR, UNIT, DIRECT SUPPORT AND
GENERAL SUPPORT MAINTENANCE MANUAL**

for
LUBRICATING AND SERVICING UNIT,
DIESEL ENGINE DRIVEN,
TRAILER MOUNTED
MODEL PM92-133
NSN 4930-00-365-5725



HOW TO USE THIS MANUAL	
EQUIPMENT DESCRIPTION	
OPERATION UNDER USUAL CONDITIONS	
OPERATOR TROUBLESHOOTING PROCEDURES	
UNIT MAINTENANCE INSTRUCTIONS	
DIRECT SUPPORT MAINTENANCE INSTRUCTIONS	
GENERAL SUPPORT MAINTENANCE INSTRUCTIONS	
MAINTENANCE ALLOCATION CHART	
COPONENTS OF END ITEM AND BASIC ISSUE ITEMS LISTS	
EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST	

Distribution Statement A: Approved for public release; distribution is unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY
15 JULY 1998

TECHNICAL MANUAL

TM 5-4930-244-14

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D. C. 15 July 1998

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AND GENERAL SUPPORT MAINTENANCE MANUAL
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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 or 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, U.S. Tank-Automotive and Armaments Command, Attn: AMSTA-AC-NML, Rock Island, IL 61299-7630. You may also submit your recommended changes by E-mail directly to amsta-ac-nml@ria-emh2.army.mil, or fax number 309/782-0726. 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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HOW TO USE THIS MANUAL

Be sure to read all Warnings before using your equipment.

This manual contains instructions for operation and maintenance of the Lubricating and Servicing Unit. Read the following brief descriptions in order to familiarize yourself with basic manual layout.

- **Front Cover** Provides you with basic information such as equipment name, model number, TM number, illustration of unit, and keyed index to major portions of the manual. The keyed index lists each major division of the TM that will be used most frequently by you the operator. The black tabs at the cover edge correspond to the first page of each of the major divisions in the manual.
- **Chapter 1** Introduces you to the equipment and gives you general information such as weight, height, length and other technical data. Provides you with simple functional descriptions of how the equipment works. Provides you with information for completing forms and records.
- **Chapter 2** Presents instructions needed by you in order to use or operate the equipment. Operating instructions in this chapter tell you how to use the equipment in both usual and unusual weather conditions. Preventive maintenance checks and services instructions (PMCS) provide information needed to inspect and service the Lubricating and Servicing Unit.
- **Chapter 3** Provides Operator troubleshooting procedures for Identifying equipment malfunctions and maintenance instructions for performing Operator maintenance tasks. For lubrication instructions refer to companion publication LO 5-4930-244-12. Lubrication Order.
- **Chapter 4** Provides Unit Maintenance personnel with troubleshooting procedures for identifying equipment malfunctions and maintenance instructions for repairing defective equipment as authorized by the maintenance allocation chart.
- **Chapter 5** Provides Direct Support Maintenance personnel with maintenance instructions for performing repairs on equipment as authorized by the maintenance allocation chart.
- **Chapter 6** Provides General Support Maintenance personnel with maintenance instructions for performing repairs on equipment as authorized by the maintenance allocation chart.
- **Appendix A** Provides a list of frequently used forms, manuals, and publications referenced in the manual and required by the operator to operate and maintain the equipment.
- **Appendix B** The Maintenance Allocation Chart identifies repairable components, length of time to repair, and the maintenance level authorized to perform the repairs.
- **Appendix C** Lists components that are not mounted on the equipment, but are required to make the unit functional. All components in the Components of End Item and Basic Issue Items Lists are illustrated for easy identification.
- **Appendix D** If applicable, lists additional equipment authorized for your unit for use with the Lubricating and Servicing Unit, but not supplied as part of the system. This equipment list may include items such as fire extinguishers, protective clothing, etc.

- Appendix E Provides you with information about expendable supplies such as sealants, lubricants, chemicals, etc. that are used when operating or maintaining the equipment.
- Appendix F This appendix includes complete instructions for making items to be manufactured or fabricated at unit maintenance.
- Appendix G Provides you with a tabular torque limit table.
- Appendix H Lists all mandatory replacement parts referenced in the task setups and procedures.
- Appendix I Includes all terms that are not adequately defined in the text or listed in the Army dictionary.
- Alphabetical Index Provides you with an alphabetical index of the manual.

AIDS TO FINDING INFORMATION. The following aids have been placed within this technical manual to help you quickly locate the information you may need.

Front Cover Index To provide you with a quick reference to the most used portions of this manual, an index has been placed on the cover of this manual.

Bleeder Edges On Pages On the right edge of the front cover index of this manual you will see a black box area that goes to the edge of the front cover page. If you hold this manual with your left hand and bend back the outer right edges of the pages with your right hand, you will find that there are pages inside the technical manual that also have black boxes on the right edges of the page and that these boxes line up with boxes on the front cover index. By turning to the page in the technical manual that lines up with the box on the front cover, you will be able to turn quickly to the topic shown in the front cover index.

Table of Contents and Boxed Titles In the event that the front cover has been removed from this manual, the items that appear in the front cover index have also been placed in a box where they appear in the Table of Contents of this manual.

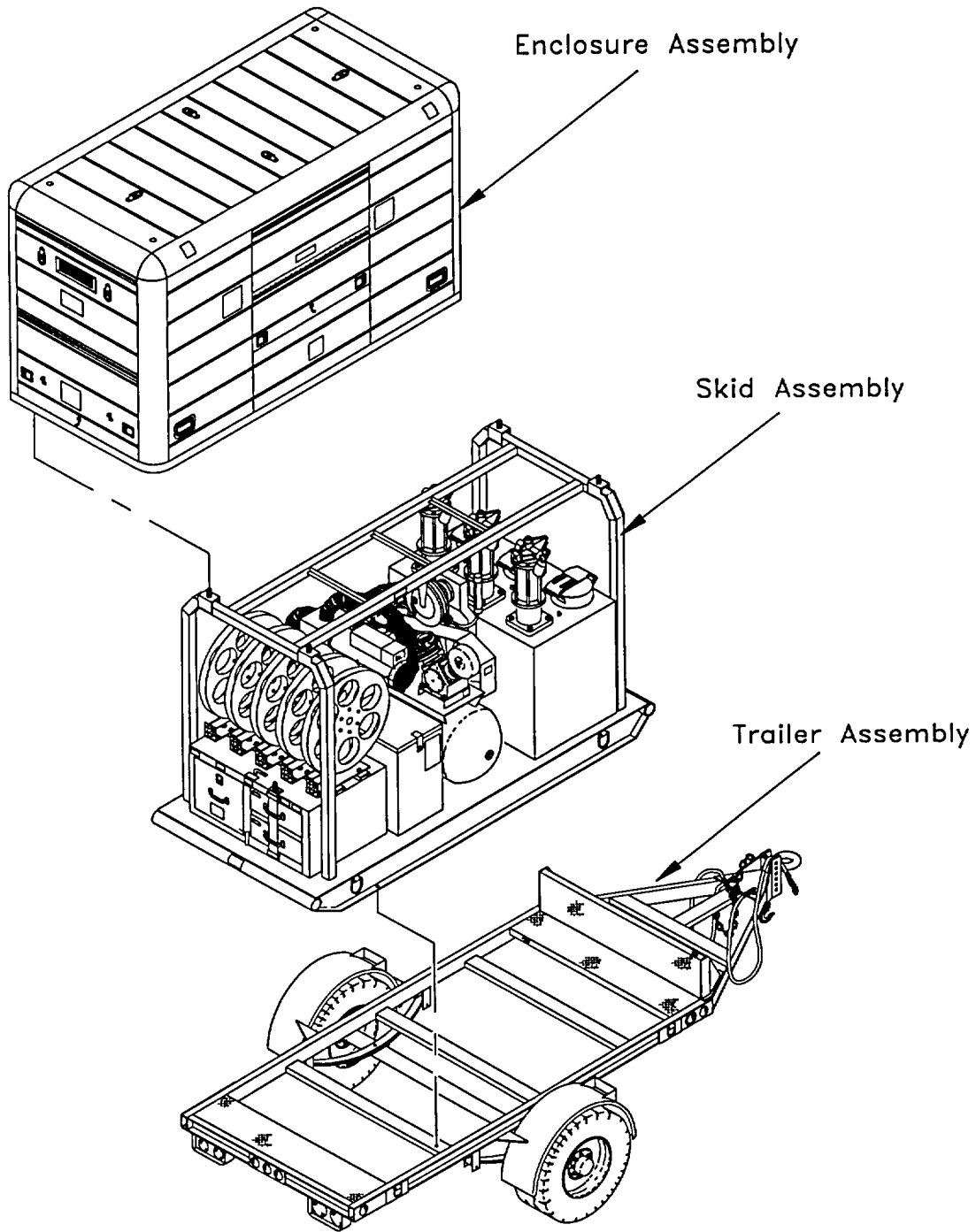


Figure 1-1. Lubricating and Servicing Unit, Diesel Engine Driven, Trailer Mounted

CHAPTER 1

INTRODUCTION

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Section I. GENERAL INFORMATION

1-1. SCOPE.

This technical manual contains instructions for Operator, Unit, Direct Support and General Support maintenance procedures required to operate and maintain the Lubricating and Servicing Unit. The purpose of the unit is to lubricate various types of equipment in usual and unusual conditions and in remote locations. The unit model number is PM92-133.

1-2. MAINTENANCE FORMS, RECORDS 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. SAFETY, CARE, AND HANDLING.

No special safety precautions are needed for the operation and repair of the lubrication and servicing unit. Standard warnings, cautions, and notes are provided when required.

1-4. CORROSION PREVENTION AND CONTROL.

Corrosion Prevention and Control (CPC) of Army Materiel 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.

If a corrosion problem is identified, it can be reported using Standard Form 368, Product Quality Deficiency Report. Using key words such as "rust", "deterioration", or "cracking" will insure that the information is identified as a CPC problem. The form should be submitted to the address specified in DA Pam 738-750.

1-5. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE.

Procedures for destruction of Army materiel to prevent enemy use are found in TM 750-244-3.

1-6. PREPARATION FOR STORAGE OR SHIPMENT.

Contact unit maintenance for preparation and storage or shipment. Refer to Section VI, Chapter 4.

1-7. REPORTING OF EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR'S).

If your Lubricating and Servicing Unit needs improvement, let us know. Send us an 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 an SF 368 (Quality Deficiency Report). Mail it to us at: Commander, U.S. Tank-Automotive and Armaments Command, ATTN: AMSTA-TR-E/MPA, Warren, Mich. 483975000. We'll send you a reply.

1-8. NOMENCLATURE CROSS-REFERENCE LIST.

Common Name

Lube Unit

Official Nomenclature

Lubricating and Servicing Unit

1-9. LIST OF ABBREVIATIONS.

Abbreviation

TM

PSI

°F

°C

BHP

PSIG

RPM

GAA

Official Nomenclature

Technical Manual

Pressure Per Square Inch

Degrees Fahrenheit

Degrees Celsius

Brake Horsepower

Pounds Per Square Inch Gauge

Revolutions Per Minute

General Artillery and Automotive