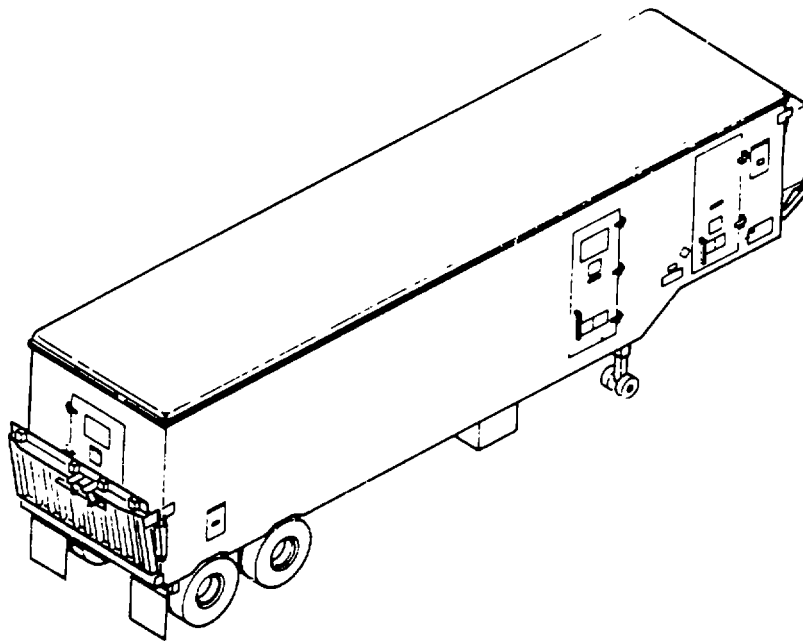


**TECHNICAL MANUAL
OPERATOR'S, UNIT, AND DIRECT
SUPPORT MAINTENANCE MANUAL**

PETROLEUM LABORATORY

SEMI TRAILER MOUNTED

NSN 6640-00-538-2736



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*This manual together with TM 10-6640-215-23P, supersedes TM 10-6640-215-13&P, dated 24 October 1990.

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

TECHNICAL MANUAL

NO. 10-6640-215-13

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON D.C., 30 June 1993**Operator's, Unit, and Direct Support Maintenance Manual****Petroleum Laboratory, Semi-Trailer Mounted
NSN 6640-00-538-2736****REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS**

You can help improve this manual. If you find any mistake 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 Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. A reply will be furnished directly to you.

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HOW TO USE THIS MANUAL

Be sure to read all Warnings before using your equipment.

- This manual contains operating instructions and Operator, Unit and Direct Support Maintenance instructions for the Semi-Trailer Mounted Petroleum Laboratory. Becoming familiar with this manual will enable you to operate and maintain the equipment in good working order.
- Chapter 1 Introduces you to the equipment and gives you information such as weight, height length, generally used abbreviations, cross reference information and principles of operation. The chapter is preceded by a full page illustration of the equipment.
- Chapter 2 Provides information necessary to identify and use the equipment's operating controls. Operating procedures tell you how to use the equipment in both usual and unusual weather conditions. In addition, preventive maintenance instructions provide information needed to inspect and service the Petroleum Laboratory.
- Chapter 3 Provides operator maintenance instructions for troubleshooting equipment malfunctions.
- Chapter 4 Provides unit maintenance instructions including service upon receipt, preventive maintenance and troubleshooting information; detailed maintenance and repair procedures for the Unit Maintenance repairer and storage and shipment instructions.
- Chapter 5 Provides detailed component repair instructions for the Direct Support maintenance group.
- Appendix A gives you a list of frequently used forms and publications.
- Appendix B is the Maintenance Allocation Chart (MAC).
- Appendix C describes components that make up the end item and are shipped with the basic equipment. It also lists components that are not mounted on the equipment, but are required to make the system functional. All components in the Components of End Item and Basic Issue Items Lists are illustrated for easy identification.
- Appendix D lists additional equipment authorized for your unit for use with the Petroleum Laboratory, but are not supplied as part of the system. This equipment list may include power cords, buckets, protective clothing etc.
- Appendix E provides you with information about expendable supplies such as sealants, paints, lubricants, etc. required during operation or maintenance of the laboratory.
- Appendix F contains the Illustrated List of Manufactured Parts which provides a list of items and instructions on how to make certain tools and devices required to perform some of the maintenance tasks contained in this manual.

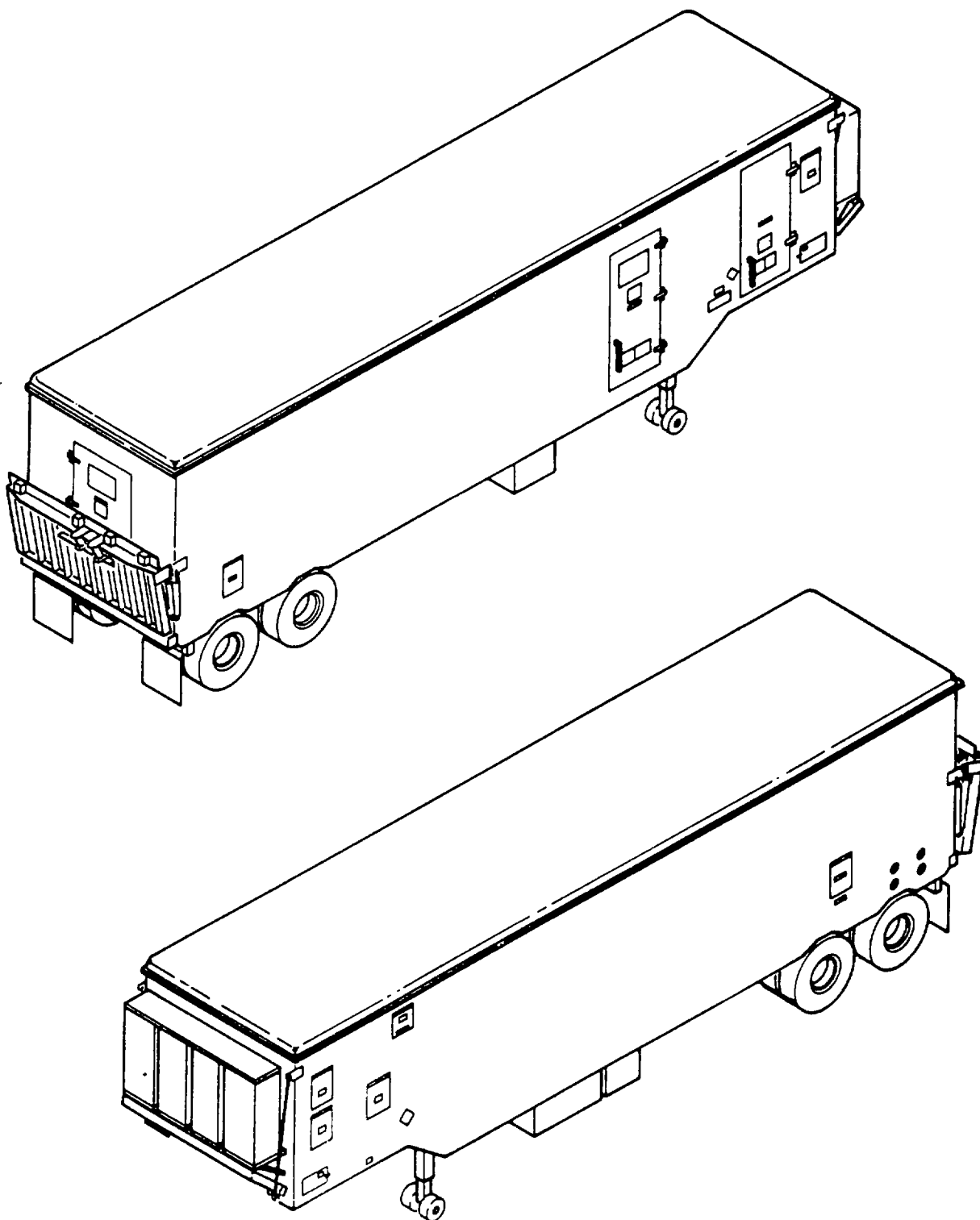


Figure 1-1. Petroleum Laboratory
1-0

CHAPTER 1

INTRODUCTION

SECTION I. GENERAL INFORMATION

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1-1. SCOPE.

- a. Type of Manual. This manual contains operation and maintenance instructions for the Operator, Unit, and Direct Support maintenance personnel of the Semi-Trailer Mounted Petroleum Laboratory.
- b. Equipment Name. Petroleum Laboratory, Semi-Trailer Mounted (NSN 6640-00-5382736).
- c. Purpose of Equipment. The Petroleum Laboratory is to be used by Army personnel to test petroleum and petroleum products during tactical military operations.

1-2. MAINTENANCE FORMS, RECORDS, AND REPORTS.

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).

1-3. HAND RECEIPT(-HR) MANUALS.

This manual has a companion document with a TM number followed by "-HR" (Hand Receipt). The TM 10-6640-215-10-HR consists of preprinted hand receipts (DA Form 2062) that list end item related equipment (i.e., COEI, BII, and AAL) you must account for. As an aid to property