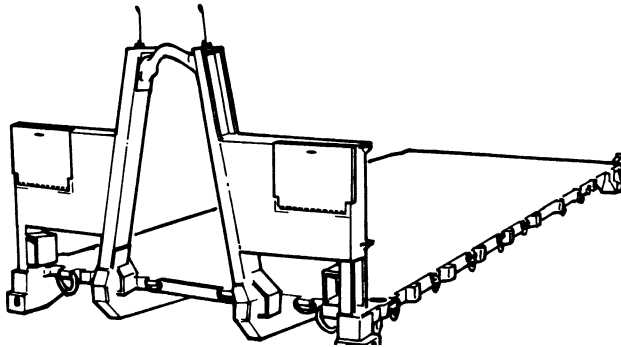


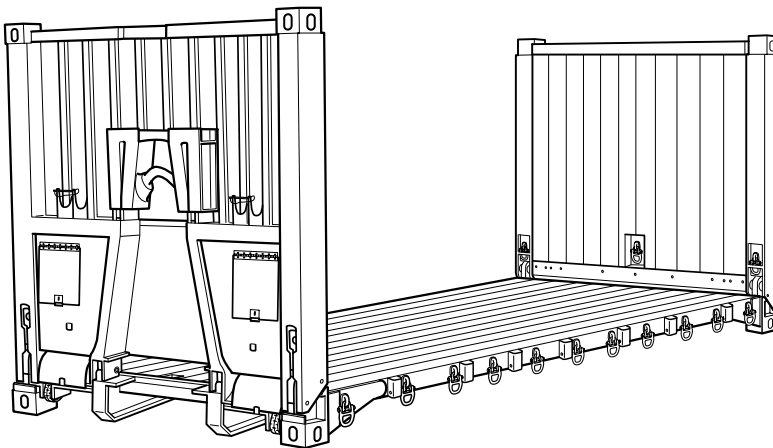
# TM 9-3990-206-14&P

THIS MANUAL SUPERSEDES TM 9-3990-206-14&P DATED 31 MAR 1994, INCLUDING ALL CHANGES.

## TECHNICAL MANUAL OPERATOR'S, UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)



**PALLETIZED LOAD SYSTEM (PLS)  
FLATRACK  
MODEL M1077/M1077A1  
NSN 3990-01-307-7676**



**ISO COMPATIBLE PALLETIZED  
FLATRACK M1 (IPF)  
NSN 3990-01-406-1340**

### DISTRIBUTION RESTRICTION

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TECHNICAL MANUAL

No. 9-3990-206-14&P

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
Washington, D.C., 01 August 1999

**OPERATOR’S, UNIT, DIRECT SUPPORT AND  
GENERAL SUPPORT MAINTENANCE MANUAL  
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)  
FOR  
PALLETIZED LOAD SYSTEM (PLS) FLATRACK**

**Model M1077/M1077A1**

**NSN 3990-01-307-7676**

**Model M1 (IPF)**

**NSN 3990-01-406-1340**

Current as of 01 August 1999

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## HOW TO USE THIS MANUAL

This manual is designed to help operate and maintain the Model M1077/M1077A1 PLS Flatrack, NSN 3990-01-307-7676 and Model ISO Compatible Palletized Flatrack M1 (IPF), NSN 3990-01-406-1340. Listed below are some of the features included in this manual 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 other essential information are printed in bold type making them easier to see.
- In addition to text, there are exploded-view illustrations showing how to take a component off and put it back on. Cleaning and inspection criteria are also included where necessary.
- Chapters 1 and 2 (model M1077), and Chapters 6 and 7 (model M1 (IPF)) of this manual are directed at the operator of the flatrack. These chapters include an overall description and instructions for operation, as well as operator PMCS.
- Chapter 3 (model M1077) and Chapter 8 (model M1 (IPF)) of this manual cover Operator Maintenance.
- Chapter 4 (model M1077) and Chapter 9 (model M1 (IPF)) of this manual cover Unit Maintenance, including PMCS.
- Chapter 5 (model M1077) and Chapter 10 (model M1 (IPF)) of this manual cover Direct Support and General Support Maintenance.
- Appendix A covers the References used in this manual.
- Appendix B covers the Maintenance Allocation Chart (MAC).
- Appendix C covers the Components of End Item (COEI) and Basic Issue Items (BII) lists.
- Appendix D covers the Additional Authorized List (AAL) of items authorized for the flatrack.
- Appendix E covers the Expendable and Durable Items List for the flatrack.
- Appendix F covers the Unit, Direct Support, and General Support Maintenance Repair Parts and Special Tools List (RPSTL) for the flatrack.
- Appendix G lists the Manufactured Items for the flatrack.
- Appendix H lists the Mandatory Replacement Parts.
- Appendix I lists the Common Tools, Supplements, and Special Tools/Fixtures.
- Appendix J shows the ISO Compatible Flatrack M1 Inspection Checklist (model M1 (IPF)).
- Appendix K lists all Lubrication Instructions (model M1 (IPF)).
- Appendix L lists all Common Torque Limits for the flatrack.
- Appendix M lists the Stowage and Sign Guides for the flatrack.
- An Alphabetical Index is provided to help locate items in the text.

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 flatrack.
- Read all WARNINGS and CAUTIONS before performing any procedure.

# CHAPTER 1

## INTRODUCTION

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### Section I. GENERAL INFORMATION

#### 1-1. SCOPE.

This chapter provides general information, equipment description and principles of operation for the PLS Flatrack.

- a. Type of Manual.** Operator, Unit, Direct Support and General Support Maintenance Manual, including Repair Parts and Special Tools List (RPSTL).
- b. Model Number and Equipment Name.** The PLS Flatrack Part Number is 1881430, Model M1077/M1077A1, NSN 3990-01-307-7676. Figure 1-1 illustrates the flatrack with various payloads.
- c. Purpose of Equipment.** The PLS Flatrack is a flat cargo body with a wall, used as a lifting point, for securing the flatrack during all modes of transportation and during all specified load/unload operations.

#### 1-2. MAINTENANCE FORMS AND RECORDS.

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.**

The flatrack has a total service life of 10 years which allows for extended periods of operation in a corrosive environment. A corrosive environment includes exposure to high humidity, salt spray, road-deicing chemicals, gravel, and atmospheric contamination. No action beyond normal washing and repair of damaged areas is necessary to control corrosion. To prevent moisture accumulation, drain holes are provided on structural and sheet metal areas where necessary. Stowage boxes are provided with drains.

### **1-4. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE.**

Refer to TM 750-244-6, Procedures for Destruction of Tank-Automotive Equipment to Prevent Enemy Use.

### **1-5. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR).**

If your flatrack needs improvement, let us know. Send us an EIR. You, the user, are the only ones who can tell us what you don't like about your equipment. Let us know why you don't like the design. Put it on an SF368 (Product Quality Deficiency Report). Mail it to us at: U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-TR-E-MPA, Warren, MI 48397-5000. We'll send you a reply.

### **1-6. PREPARATION FOR STORAGE OR SHIPMENT.**

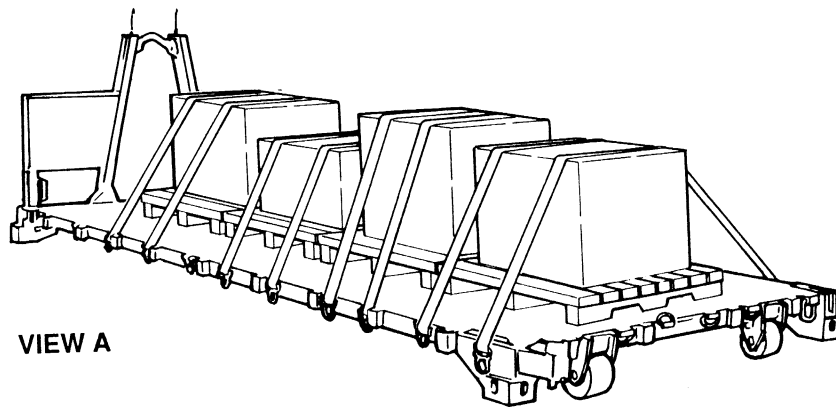
Refer to Para 2-13 for storage or shipment instructions for the flatrack.

### **1-7. QUALITY ASSURANCE/QUALITY CONTROL (QA/QC).**

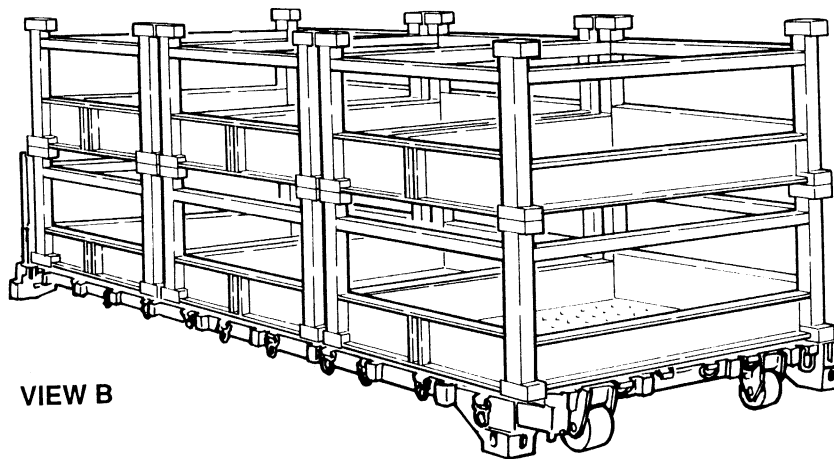
If there are any Quality Assurance/Quality Control problems with the flatrack, put the problem on an SF 368 Quality Deficiency Report and mail it to: Commander, U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-TR-E-MPA, Warren, MI 48397-5000. A reply will be furnished to you.

### **1-8. EQUIPMENT CONFIGURATION.**

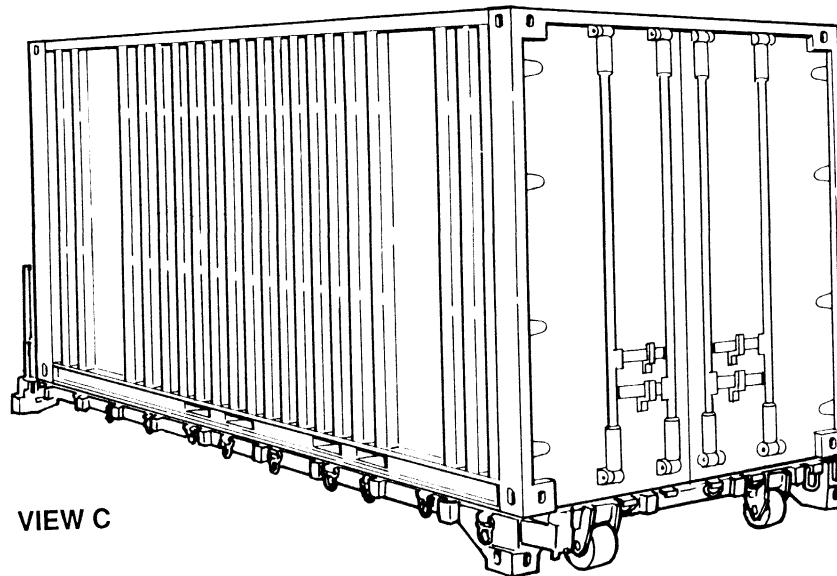
The flatrack can be configured to carry palletized (View A), break-bulk (View B), or 20 foot International Standards Organization (ISO) container (View C) payloads (Figure 1-1).



VIEW A



VIEW B



VIEW C

Figure 1-1. Flatrack Payloads.