

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

FIREFIGHTING TRUCK
100 FT AERIAL LADDER
1000 GPM
(NSN 4210-01-290-8755)

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HEADQUARTERS, DEPARTMENT OF THE ARMY
15 DECEMBER 1992

TECHNICAL MANUAL

NO. 5-4210-233-14&P-1

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 15 DECEMBER 1992**TECHNICAL MANUAL****Operator's, Unit, Direct Support and General Support
Maintenance Manual****FIREFIGHTING TRUCK, 100 FT AERIAL LADDER, 1000 GPM
NSN 4210-01-290-8755**

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

This manual is divided into two volumes:

Volume 1, TM 5-4210-233-14&P-1 consists of Chapters 1 through 5 and Index.

Volume 2, TM 5-4210-233-14&P-2 consists of Chapter 6, Appendixes A through J and Index

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 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, US Army Aviation and Troop Command, ATTN: AMSAT-I-MTS, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished directly to you.

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HOW TO USE THIS MANUAL

ARRANGEMENT. This manual is divided into six chapters. The purpose of each chapter is listed below.

Chapter 1 - INTRODUCTION. Provides the user with information about standard data required in all manuals. It also familiarizes the user with the truck and related equipment.

Chapter 2 - OPERATING INSTRUCTIONS. Presents instructions needed by the operator and crew to effectively and efficiently operate the truck.

Chapter 3 - OPERATOR MAINTENANCE INSTRUCTIONS. Presents the necessary information for the operator to keep the truck and its components in good running condition.

Chapter 4 - UNIT MAINTENANCE. Presents the necessary procedures and instructions to perform maintenance tasks allocated to Unit Maintenance.

Chapter 5 - DIRECT SUPPORT MAINTENANCE. Presents the necessary procedures and instructions to perform maintenance tasks allocated to Direct Support Maintenance.

Chapter 6 - GENERAL SUPPORT MAINTENANCE. Presents the necessary procedures and instructions to perform maintenance tasks allocated to General Support Maintenance.

An alphabetical subject index has been included at the rear of this manual to improve reader access to the required information.

EXPLANATION OF NUMBERING SYSTEM.

Text. The information in this manual is numbered sequentially for easy access of data.

Example:

2-1.

The first number indicates the chapter number.

The second number (following the hyphen) indicates the paragraph number within that chapter.

Example:

2-1.1

The third number (following the period) indicates the subordinate paragraph number within a particular paragraph

Page and Table Numbers. All pages and tables are numbered sequentially within each chapter.

LOCATION OF NUMBERS.

Text. Numbers appear above and to the left of the related text.

Pages. Page numbers appear at the bottom right-hand corner for odd-numbered pages or the bottom left-hand corner for even-numbered pages.

Tables. Table numbers appear directly above the related table.

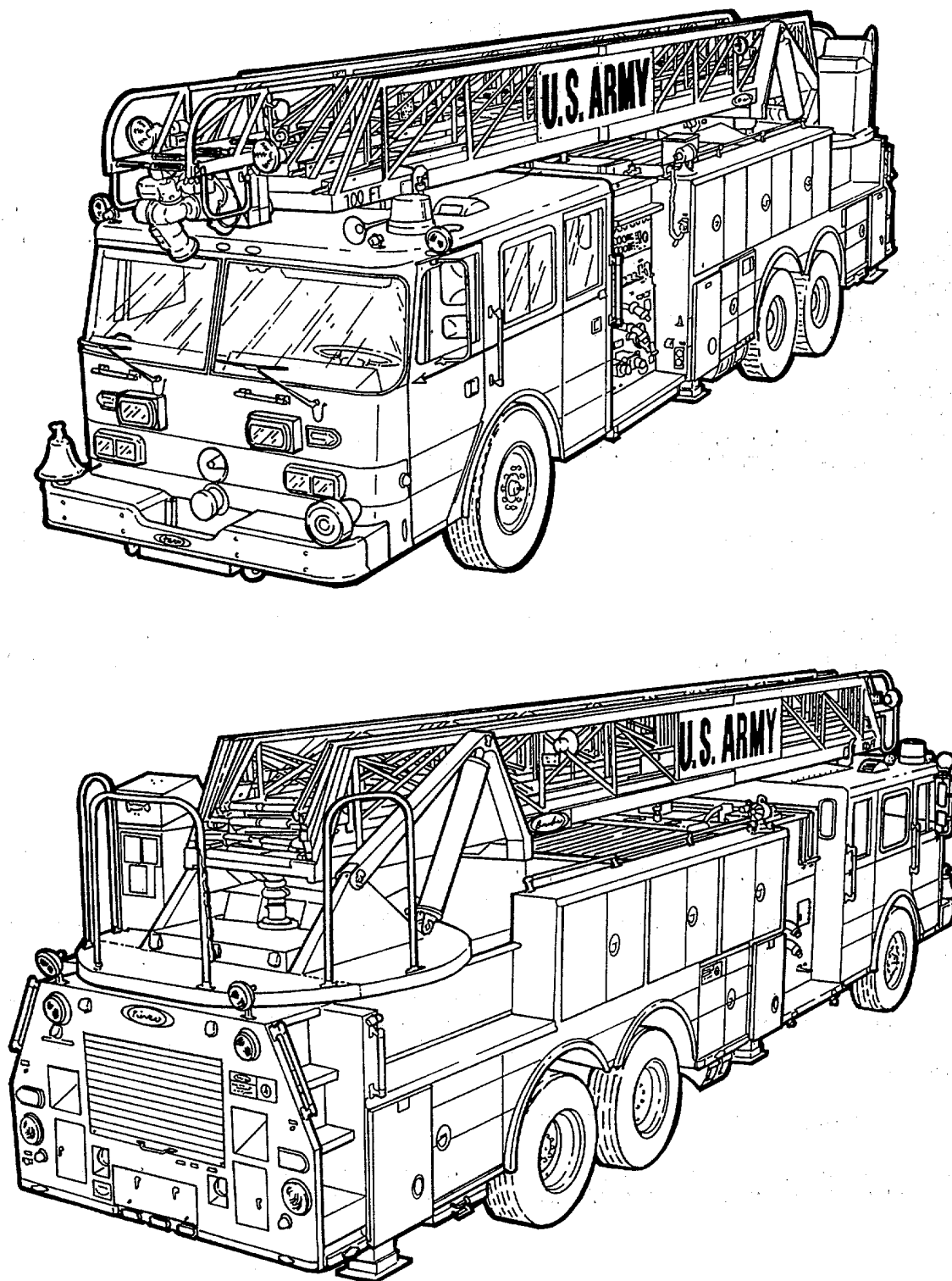


Figure 1-1. Firefighting Truck, 100 Ft Aerial Ladder, 1000 GPM, NSN 4210-01-290-8755

CHAPTER 1

INTRODUCTION

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SECTION I. GENERAL INFORMATION

1-1. SCOPE

a. This manual provides operator instructions, and Operator, Unit, Direct Support and General Support maintenance instructions for the firefighting truck, 100 ft. aerial ladder, 1000 GPM, NSN 4210-01-290-8755. The firefighting truck is designed for crash, fire and rescue operations. The truck is also capable of fighting ground and structural fires.

b. This manual includes a detailed description of the truck and its control components as well as detailed information for its operation and maintenance. Although the truck is supplied complete with firefighting equipment, only brief descriptions of this equipment are provided, and no attempts are made to explain firefighting techniques.

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).

1-3. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR'S)

If your firetruck needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you like and don't like about your equipment. Let us know why you don't like the design or performance. Put it on an SF 368 (Product Quality Deficiency Report). Mail it to us at: Commander, U.S Army Troop Support Command, ATTN: AMSTR-QS, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. We'll send you a reply.

1-4. PREPARATION FOR STORAGE OR SHIPMENT

Refer to paragraph 4-220 for preparation for storage or shipment instructions.

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

Refer to TM 750-244-2 and TM 750-244-3 for instructions covering the destruction of Army material to prevent enemy use.

1-6. SAFETY,-CARE AND HANDLING

- a. Do not drive the vehicle while low air pressure warning buzzer is sounding or red light is on. Air pressure in brake system may be insufficient for normal operation of the brakes.
- b. When operating the aerial ladder, ensure the outriggers are down on firm ground and that side slope does not exceed five degrees.
- c. Do not exceed 400 pound (181 kg) capacity on aerial ladder. If warning buzzer sounds, correct situation immediately.
- d. The ladder is designed to be self-supporting. Do not allow the ladder tip to contact or rest on anything. Damage to the ladder may result.
- e. Shut off engine and no smoking, sparks or open flames when refueling vehicle.
- f. The vehicle is equipped with electronically controlled equipment. When welding anywhere on the vehicle, all modules for electronically controlled equipment must be disconnected.
- g. The outrigger hydraulic functions and ladder functions cannot be operated at the same time. Hydraulic oil cannot be pumped to these areas at the same time.

1-7. WARRANTY INFORMATION

For warranty information, refer to TB 5-4210-233-24