

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR AND ORGANIZATIONAL MAINTENANCE MANUAL
TRUCK, FIRE FIGHTING: POWERED PUMPER,
FOAM AND WATER, 500 GALLONS PER MINUTE CAPACITY,
CENTRIFUGAL PUMP, POWER TAKEOFF DRIVEN,
400 GALLON WATER TANK, 40 GALLON
FOAM CHEMICAL TANK, CLASS 530B,
NONWINTERIZED (WARD LAFRANCE MODEL M45A2WLF),
FSN 4210-928-3515

This copy is a reprint which includes current pages from Changes 1 through 4.
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DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 10 May 1968

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400 GALLON WATER TANK, 40 GALLON FOAM CHEMICAL
TANK, CLASS 530B, NONWINTERIZED
(WARD LAFRANCE MODEL M45A2WLF)
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CHAPTER 1 INTRODUCTION

Section I. GENERAL

1-1. Scope

a. These instructions and the instructions contained in Army Technical Manuals 9-2320209-10 and 9-2320-209-20 are published for use by personnel to whom the Ward LaFrance Fire Truck is issued. They provide information on the operation and organizational maintenance of the equipment. Also included are descriptions of main units and their functions in relationship to other components.

b. Appendix A contains a list of publications applicable to this manual. Appendix B contains the list of basic issue items authorized for the operator of this equipment and the list of maintenance and operating supplies required for initial operation. Appendix C contains the maintenance allocation chart.

c. Numbers in parentheses following nomenclature callouts on illustrations indicate quantity; numbers preceding nomenclature callouts indicate preferred maintenance sequence.

d. Report of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes

to DA Publications) and forwarded direct to Commanding General, U.S. Army Mobility Equipment Command, ATTN: AMSME-MPP,,4300 Goodfellow Boulevard, St. Louis, Missouri 63120.

e. Report all equipment improvement recommendations as prescribed by TM 38-750.

1-2. Record and Report Forms

a. DA Form 2258 (Depreservation Guide for Vehicles and Equipment).

b. For other record and report forms applicable to operator, crew, and organizational maintenance, refer to TM 38-750.

Note Applicable forms, excluding Standard Form 46 (United States Government Motor Vehicles Operator's Identification Card) which is carried by the operator, shall be kept in a canvas bag mounted on equipment.

Section II. DESCRIPTION AND TABULATED DATA

1-3. Description

a. *General.* The Class 530B Fire Truck (fig. 1-1 and 1-2) is the Army's standard tactical type fire apparatus and is designed for combating structural, brush and aircraft crash fires in areas of combat operations. The fire fighting apparatus is mounted on the Army's standard 21/2 Ton, 6x6, Truck Chassis, Model M45A2. The truck is powered by a multifuel engine with a five speed forward and one reverse speed transmission. The truck is designed for use over all types of roads, highways and cross-country terrain. For additional information covering Model M45A2 Truck Chassis, refer to TM 9-2320-209-10 and -20. The Fire Truck is equipped with a

midship-mounted fire pump which is driven from a power takeoff, connected to the transfer case. The Fire Truck has the capability of pumping from a draft water supply, a hydrant water supply or from a 400 gallon water tank mounted on the truck. The Fire Truck does not have the pump-in-motion capability. The fire pump is equipped with a pressure relief valve to protect the pump, engine and hose lines against damage due to excessive pressure rise when nozzles are shut off. A priming pump is provided for priming the fire pump. The Fire Truck is also equipped with an around-the-pump liquid foam proportioning system for use in combating

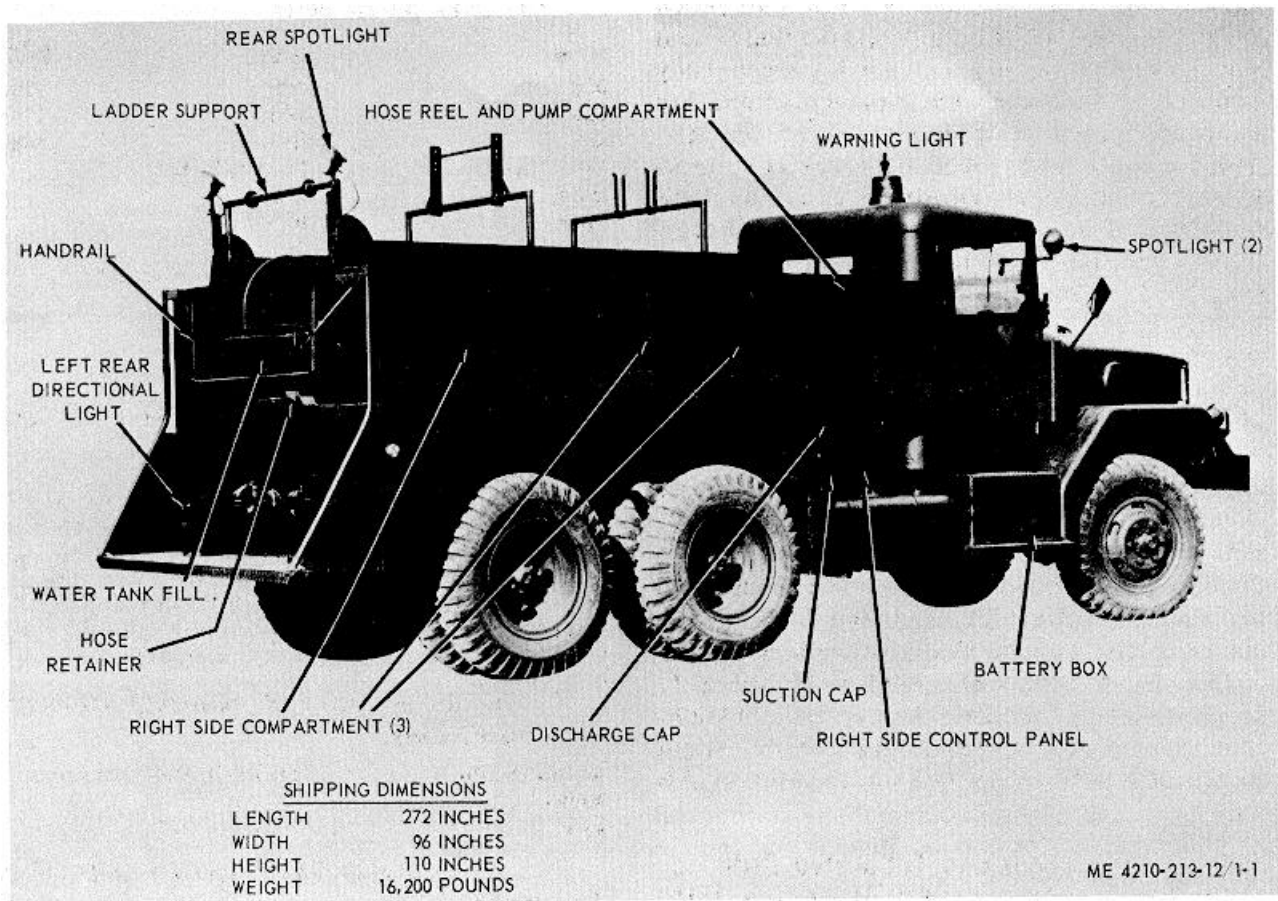


Figure 1-1. Fire truck, right-rear, three-quarter view with shipping dimensions

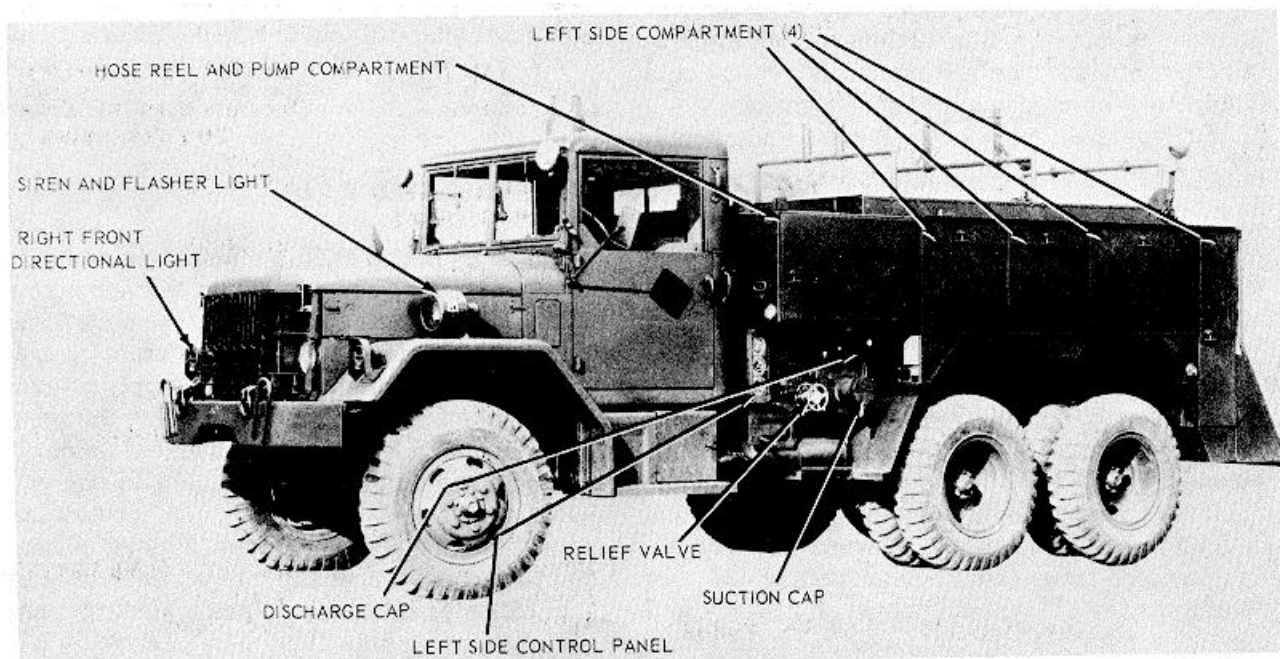


Figure 1-2. Fire truck, left-front, three-quarter view.