

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

TECHNICAL MANUAL

DIRECT AND GENERAL SUPPORT

MAINTENANCE MANUAL

TRUCK, LIFT, FORK, EMD, SOLID RUBBER

TIRED WHEELS, 2000 LB CAPACITY, 144 IN LIFT

ARMY MODEL MHE-219

ALLIS CHALMERS MODEL FE20-24EE

FSN 3930-151-4432

This copy is a reprint which includes current pages from Changes 1 and 2.

HEADQUARTERS, DEPARTMENT OF THE ARMY
DECEMBER 1971

TECHNICAL MANUAL
NO. 10-3930-A28-34



HEADQUARTERS,
DEPARTMENT OF ARMY
WASHINGTON, D. C., 2 December 1971

**DIRECT AND GENERAL SUPPORT MAINTENANCE MANUAL
TRUCK, LIFT, FORK, EMD, SOLID RUBBER TIRED WHEELS,
2000 LBS. CAPACITY, 144 IN. LIFT
ALLIS CHALMERS MODEL FE20-24EE, FSN 3930-151-4432
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CHAPTER 1

INTRODUCTION

Section I. General

1-1. Scope

This manual contains the information necessary for the maintenance of the Truck, Lift, Fork, Electric, Solid Rubber Tired Wheels, 2000 pound capacity by Direct Support and General Support Maintenance personnel as allocated by the Maintenance Allocation Chart. The manual provides information on the maintenance of the equipment which is beyond the scope of the tools, equipment, personnel, or supplies normally available to Operator and Organizational Maintenance.

1-2. Forms and Records

DA forms and records used for equipment maintenance will be only those prescribed in TM 38-750.

1-3. Reporting of Errors

Report of errors, omissions, and recommendations for improvement of this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to Commanding General, U.S. Army Mobility Equipment Command, ATTN: AMSME-MPP, 4300 Goodfellow Boulevard, St. Louis, Mo. 63120.

Section II. DESCRIPTION AND DATA

1-4. Description

A general description of the Truck, Fork Lift and information pertaining to the identification plates is contained in TM 10-3930-628-12. A more detailed description of specific components and assemblies is contained in the applicable sections of this manual. Detailed descriptions of the components of the truck are provided in the applicable maintenance paragraphs of this manual.

1-5. Identification and Tabulated Data

a. General. This paragraph contains all of the maintenance data pertinent to direct and general support maintenance personnel.

b. Identification. The lift truck has two identification plates.

(1) *Army data plate.* Located on the instrument panel. Specifies the nomenclature, manufacturer, model and serial numbers and capacity.

(2) *Shipping plate.* Located on front of frame. Specifies shipping dimensions, weight and cubage.

c. Drive Motor Classification and Rating.

MakeAllis Chalmers
Model.....725B4
Horsepower4.6 HP
Current Draw95 Amps
Voltage36 Volts
Speed880 RPM
Winding TypeSeries Wound
CoolingFan Cooled
InsulationClass F

Rotation.....Clockwise

d. Pump Motor Classification and Rating.

MakeAllis Chalmers
Model450CS3
Horsepower.....11.5 HP
Current Draw.....294 Amps
Voltage36 Volts
Speed015 RPM
Winding TypeSeries Wound
CoolingFan Cooled
Insulation.....Class F
Rotation.....Counterclockwise

e. Steering Unit Classification and Rating.

MakeRoss Gear
Model253AA008
TypeManual

f. Hydraulic Unit Classification and Rating.

MakeCessna Aircraft
Model24386LAA
Rotation.....Counterclockwise
Speed2015 RPM
Pressure.....1500 PSI
Flow.....11.8 GPM

g. Hydraulic Control Valve Classification and Rating.

MakeHydraulic Unit Special-
ties
Model5000-2-31
Control.....2 Plunger

h. Wiring Diagram. Figure 1-1 is a schematic wiring diagram of the fork lift truck.

