DEPARTMENT OF THE ARMY TECHNICAL MANUAL

Direct Support, General Support and Depot Maintenance Manual

TRUCK, LIFT, FORK, ELECTRIC, SOLID RUBBER TIRES 6,000 LBS. CAPACITY, 180 IN. LIFT, DREXEL DYNAMICS MODEL FL-60-EE5600, ARMY MODEL 206 FSN 3930-935-7867

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DIRECT SUPPORT, GENERAL SUPPORT AND DEPOT MAINTENANCE MANUAL TRUCK, LIFT, FORK, ELECTRIC, SOLID RUBBER TIRES, 6,000 LBS. CAPACITY, 180 IN. LIFT, DREXEL DYNAMICS MODEL FL-60-EE5600, ARMY MODEL MHE 206, FSN 3930-935-7867

LIST OF ILLUSTRATIONS

CHAPTER 1
INTRODUCTION

Section I. GENERAL

1-1. Scope

a. These instructions are for the use of the personnel to whom Drexel Dynamics Corporation Model FI60-EE5600 Electric Forklift Trucks are issued. It provides information on maintenance which is beyond the scope of the tools, equipment, personnel, or supplies normally available to the using organization.

b. The appendix contains a list of references. TM 10-3930-611-12 contains the maintenance allocation chart. The list of repair parts required by direct, general, and depot maintenance facilities for support of the equipment is contained in TM 10-3930-611-35P. (When printed).

c. Report of errors, omissions and recommendations for improving this publication by the individual user is encouraged. Report 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.

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

1-2. Record and Report Forms

Maintenance forms, records and reports which are to be used by direct, general, and depot maintenance personnel are listed in and prescribed by TM 38750.

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 the equipment.

Section II. DESCRIPTION AND DATA

1-3. Description

For a complete description of the Drexel Dynamics Corporation Model FL60-EE5600 Electric Forklift Truck, see TM 10-3930-611-12.

1 -4. Tabulated Data

a. Drive Motor.

Manufacturer---------- General Electric Company
Model Number---------- 5BT1364A122
Volts---------- 36
HP (Horsepower) ---------- 9.48
RPM (Revolutions per minute) 1130
Amperes ---------- 255
Winding ---------- Series-Series

b. Hydraulic Pump Motor.

Manufacturer---------- General Electric Company
Model Number---------- 5BT1364A123
Volts---------- 36
HP (Horsepower)---------- 9.48
RPM (Revolutions per minute) 1130
Amperes---------- 255
Winding ---------- Series-Series

c. Nut and Bolt Torque Data. For nut and bolt torque data TM 10-3930-611-12.

d. Schematic Wiring Diagram. Refer to figure 1-1 for wiring diagram.

Figure 1-1. Electrical wiring schematic.
(Located in back of manual)

CHAPTER 2
GENERAL MAINTENANCE INSTRUCTIONS

Section I. REPAIR PARTS, SPECIAL TOOLS, AND EQUIPMENT

2-1. Special Tools and Equipment
No special tools or equipment are required to perform the repair operations described in this manual.

2-2. Direct Support, General Support, and Depot Maintenance Repair Parts
Direct Support, General Support, and Depot Maintenance Parts are listed in TM 10-3930-611-35P.

2-3. Specially Designed Tools and Equipment
No specially designed tools and equipment are required to perform maintenance on the forklift truck.

Section II. TROUBLESHOOTING

2-4. General
This section provides information useful in diagnosing and correcting unsatisfactory operation or failure of the forklift truck and its components. Malfunctions which may occur are listed in table 2-1. Each malfunction stated is followed by a list of probable causes of the trouble. The corrective action recommended is described opposite the probable cause.

Table 2-1. Troubleshooting

Malfunction	Probable cause	Corrective action
1. Brake pedal goes to floorboard or is spongy.	a. Oil or grease on brake lining	a. Replace brake shoe (para 3-23).
	b. Boot and gasket in master cylinder damaged or worn out.	b. Replace boot and gasket. (para 3-22).
	c. Brake shoes out of adjustment	c. Adjust (para 3-23).
	d. Defective wheel cylinder	d. Replace cylinder (para 3-23).
2. Brakes are dragging (either or both sides).	a. No return bleeding in master cylinder.	a. Adjust pushrod (para 3-22).
	b. Brake shoes out of adjustment	b. Adjust (para 3-23).
	c. Broken or loose brake shoe springs.	c. Replace or adjust (para 3-23).
	d. Shoe mounting plate loose	d. Tighten (para 3-23).
	e. Brake drum out-of-round. Spindle bent.	e. Replace (para 3-23).
3. Parking brake or seat brake does not hold.	Brake shoes soaked with oil or grease.	Replace brake shoes (para 3-24).
4. Failure to drive (forward or reverse).	a. Foot brake switch defective	a. Replace (TM 10-3930-611-12 para 3-29).
	b. Battery interlock switch defective.	b. Replace (TM 10-3930-611-12 para 3-31).
	c. Seat switch defective	c. Replace (TM 10-3930-611-12, para 3-28).
	d. Emergency switch defective	d. Replace (TM 10-3930-611-12 para 3-30).
	e. Directional switch defective	e. Replace (TM 10-3930-611-12 para 3-22).
	f. Accelerator switch defective	f. Replace (para 3-5).
	g. Line contactor defective	g. Replace (para 3-6).
	h. Forward and reverse contactor defective.	h. Replace (para 3-6).
	i. SCR defective	i. Replace (para 3-6).