

MOUNTING EQUIPMENT

USE AND OPERATION OF R-3870 MANUAL HYDRAULIC LIFT TRUCK

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1. GENERAL

1.1 Scope

- 1.11 This section covers instructions for the use of the R-3870 Manual Hydraulic lift truck for the mounting of shelves, units and other floor supported frame and cabinet mounted equipment.

1.2 Associated Information

- 1.21 Refer to Figures 1 and 2 for the location of various parts of truck which reference may be necessary when performing operations covered by this section.

1.3 Arrangement of Tools

- 1.31 Prior to the starting operations covered by this section, the tools and other items required should be arranged at the work location so as to minimize fatigue and inconvenience while handling.

2. PRECAUTIONS

2.1 Precautions Against Personal Injury and Equipment Damage

- 2.11 The specific precautions to be taken against personal injury and to prevent damage to equipment and service interruptions are covered in this section or in other sections of this series with the associated operations. General precautions are covered in the general sections of this handbook and in Handbook O. These precautions are to be observed at all times, as they apply to the particular operation being performed.

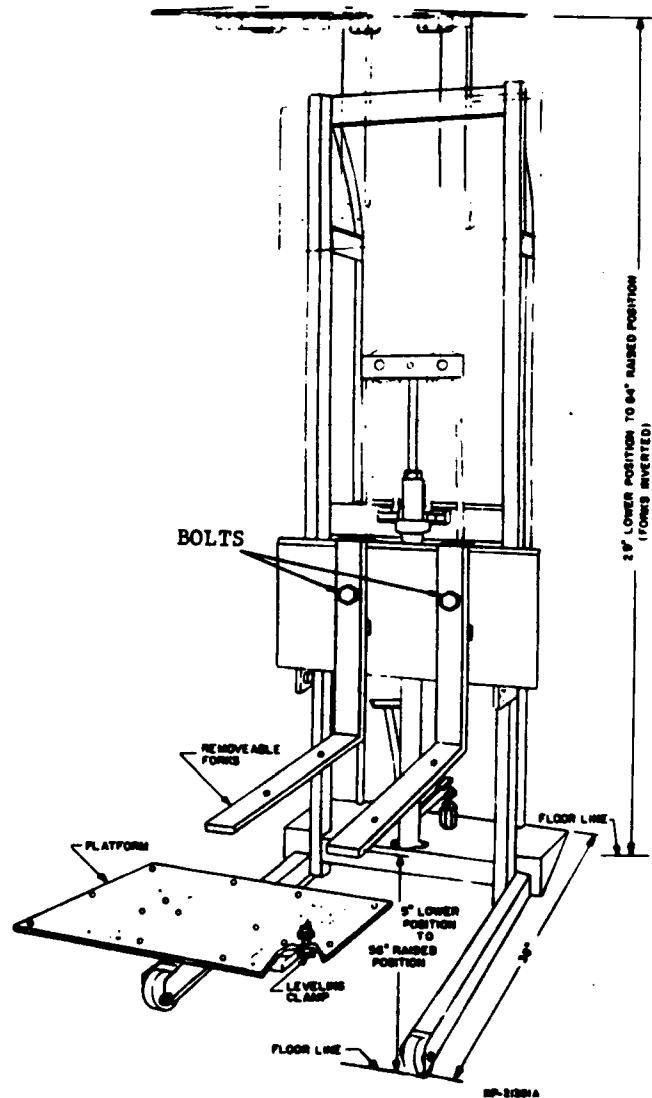


FIG. 1 FRONT VIEW OF R-3870 MANUAL HYDRAULIC LIFT TRUCK

3. OPERATING AND ENGINEERING FEATURES OF R-3870 LIFT TRUCK (See Figures 1 and 2.)

3.1 Construction

3.11 The R-3870 Manual Hydraulic Lift Truck is all steel welded construction with a removable steel platform and two removable forks. The truck weight will not exceed 350 lbs. Its capacity is 750 lbs. with forks in both positions. Lifting positions and overall dimensions are indicated in figures.

3.12 Attaching Removable Forks

3.121 Install two 5/8" lockwashers on two Hex H.D. Cap Screws 5/8-11" x 2-1/2" and insert through forks and face plate and tighten into two 5/8-11" hex nuts.

3.13 Platform: The platform is 24" x 26" and is assembled to the truck by slipping the two forks thru the U shaped brackets under the platform. Four predrilled .438 holes in the platform must line up with holes in two forks. These four holes are utilized to secure various Product Engineering Control Centers (PECC) fixtures for handling various shelves, units and other floor supported frame and cabinet mounted equipment. There are twelve .375-16 holes located at various positions on the platform. They provide unlimited flexibility in locating four (4) leveling clamps supplied with truck. These leveling clamps provide fine adjustment to fixtures to compensate for uneven floors.

3.14 Back Frame: The skid rails or back frame assure easy truck loading and handling of lift truck.

3.15 Floor Lock: The floor lock provides a positive brake in the operating position as shown in Figure 2, and must be locked to floor when loading and unloading the truck. Operate the foot lever on the floor lock to lock and release the floor lock. The floor lock must be secured on top of the plate during shipment to prevent damage.

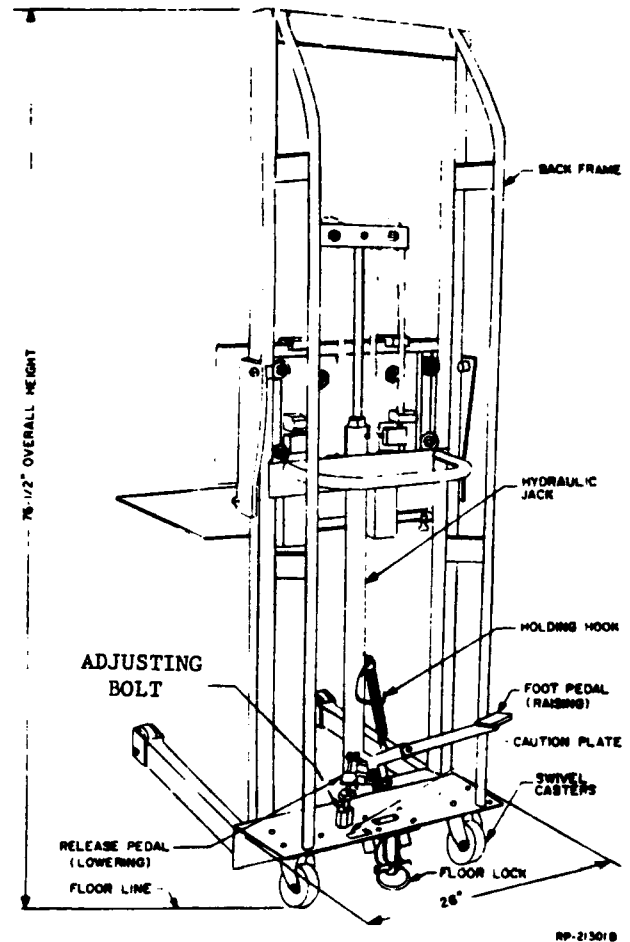


FIG. 2 REAR VIEW OF R-3870 MANUAL HYDRAULIC LIFT TRUCK

3.16 Hydraulic Jack: The hydraulic jack raises and lowers the platform. If platform does not raise to full height, it probably requires oil. When platform is in lowered position oil level in jack should be level with lower filler plug opening. (This is located halfway up the body of the jack toward the back.) If there is no oil, or too little oil, add R-3157 Hydraulic Oil into the cylinder through the top plug. When the oil reaches the level of the bottom plug, replace both plugs.

CAUTION: NEVER USE BRAKE FLUID.

NOTE: HYDRAULIC BRAKE OR SHOCK ABSORBER FLUID WILL RUIN PUMP AND PACKING AND CORRODE VALVES AND SEATS. DO NOT USE.

3.17 Foot Pedal: The foot pedal is provided to raise the platform. When not in use, it should be placed in the holding hook to prevent accidental raising of platform. While in transit, some tape should be wrapped around pedal and hydraulic jack to prevent damage to the pedal. To raise platform, place foot on pedal and push toward floor - a reasonable stroke - do not force - pedal will return for next stroke and platform should rise. The platform will hold in any position. If for any reason the platform does not rise, it may be an indication of not enough oil in the hydraulic jack, as it is well to pump a number of times before deciding anything is wrong. Foreign matter may lodge under a valve or seat, rapid movement of foot pedal will dislodge it. If there is air in system, platform will not rise satisfactorily, or it will be "jerky" and will not position. The following operations should remove any air from system.

- (a) Remove upper screw in Hydraulic Jack and its washer.
- (b) Replace upper screw without washer, let loose (two turns), this provides an air vent.
- (c) Hold down release pedal and pump foot pedal about six times. This removes any possible trapped air.
- (d) Remove upper screw. Install washer and replace upper screw.

→ Arrow indicates new or changed information.

3.18 Release Pedal: The release pedal is used to lower the load. Lowering is accomplished by pushing down toward the floor on release pedal located at base of jack. Short push lowers slowly, longer push lowers faster.

3.19 Adjusting Bolt: The adjusting bolt controls the lowering speed of the platform when the release pedal is depressed. The adjusting bolt is equipped with a locking nut.

3.20 Casters, Guide Wheels, Chain, Rollers, etc.

3.201 In order to obtain maximum response from the R-3870 Manual Hydraulic Lift Truck, all parts must be functioning at top efficiency. The front and rear wheel bearings are provided with Zerk fittings and should be greased approximately every thirty days with medium grease. Chain should be lubricated with light machine oil occasionally. Guide wheels have oil holes. Chain, rollers, etc., are grease sealed and require no attention.

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Reason for Reissue:

- 1) To change title.
- 2) To add Paragraph 3.12.
- 3) To add Paragraph 3.15.
- 4) To remove Paragraph 4.