



Model R60 LPG Operator's Manual



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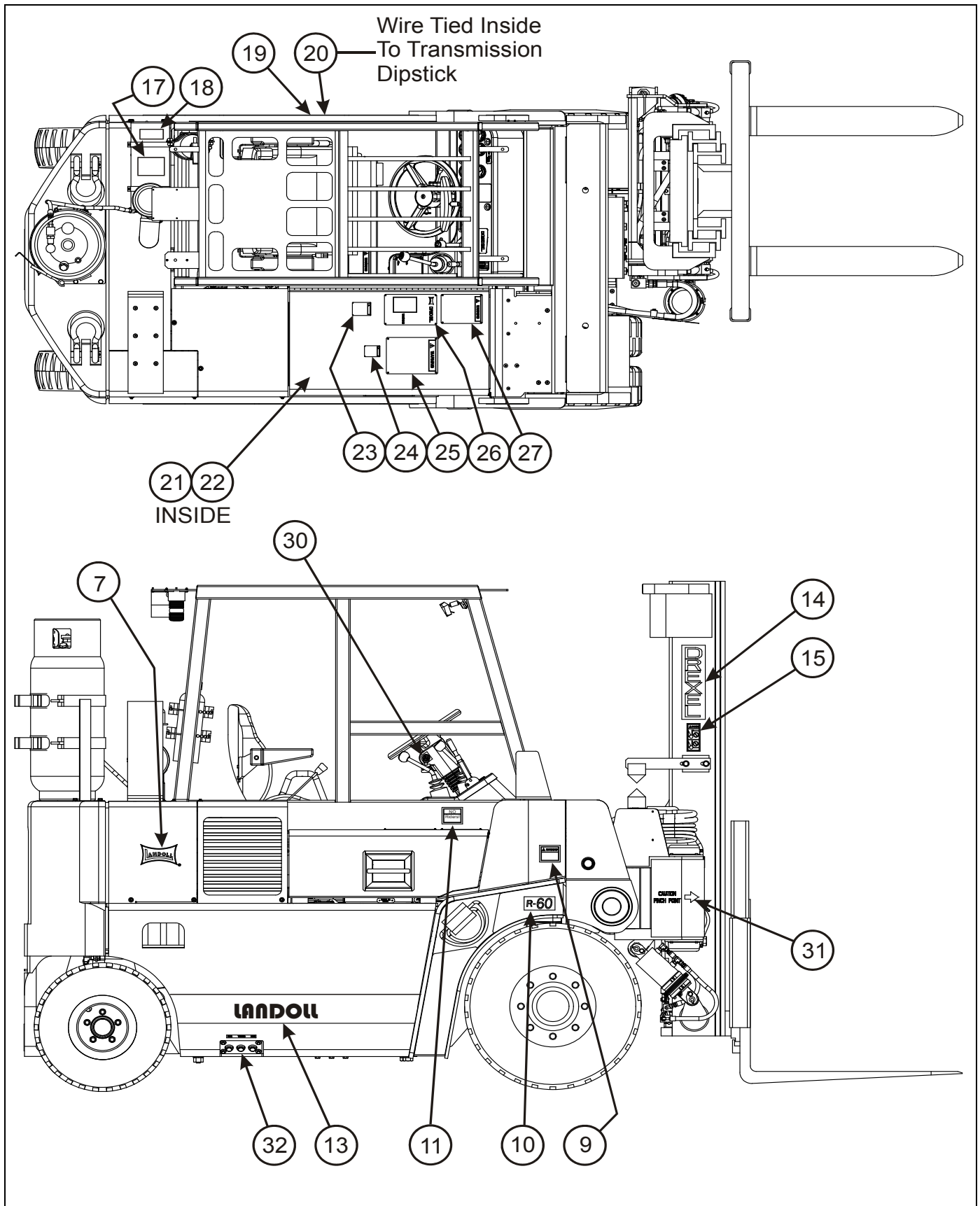


Figure 1-3: Decal Locations Cont'd

Receiving / Inspection / Towing / Shipping

This section of your R60 LPG Forklift Operator's Manual covers the information you will need to successfully receive your truck and prepare it for operation.

Before shipping from the Landoll Corporation, each R60 LPG Model truck is inspected to make sure the truck you receive is in impeccable condition and equipped per your order.

We do recommend that you:

- Inspect the truck for any signs of physical damage during shipment. Note any apparent damage on the bill of lading and request the delivery agent sign it. Report the damage to your distributor and the shipping company.
- Verify that the truck configuration and options match your purchase order. Report any discrepancies to your distributor.

Items Furnished With Your Truck

Standard R60 LPG Model trucks are shipped from the factory with one copy each of the R60 LPG Operator's Manual, including an "Operator's Daily Checklist" - see page 5-2, an R60 LPG Parts Manual, a battery disconnect handle and a set of keys attached to the truck.

Items Required

When the truck is received, a battery approved for use in the truck must be installed. The battery must be replenished from a battery charger at certain intervals. No additional items are required to operate the truck. The truck is shipped with a copy of the technical manual and a set of ignition keys.

Tools and Test Equipment

In general, no special tools or test equipment beyond those found in a well-equipped service center are required for general maintenance. However, custom bearing and seal installation tools and calibrated torque wrenches are helpful when performing more involved service.

Preparing the Truck for Use

The truck is supplied ready to operate except for the addition of fuel.

The below fluid levels can be double checked:

1. Check the hydraulic oil level, see "Hydraulic Oil Level" on page 5-3.
2. Check the fluid level in the brake master cylinder reservoir.
3. Check the condition of the battery, see "Battery Care and Safety" on page 1-11.

Inspecting the Truck

IMPORTANT

Upon receiving the R60 LPG forklift, use the "Operator's Daily Checklist" on page 5-2 to verify and monitor that your forklift is in proper working order.

Before releasing the truck for use, prepare a log book or log sheet for each truck at your site. List all services, repairs and adjustments performed, as well as equipment or operational problems and when they are recorded and repaired (hour meter reading and date the service was performed). Permanent logs serve as a checklist to show maintenance and repair history.

With the truck Keyswitch set to OFF and the direction control switch set to NEUTRAL, perform a walk-around inspection. Always pay strict attention to all CAUTION, WARNING, and DANGER decals affixed to the truck and thoroughly read the SAFETY chapter 1 of this manual. Check for obvious damage that would require more detailed inspection. If you notice or suspect a problem, immediately report it to your supervisor, record it in the truck log book, and have it checked and/or repaired before operating the truck.

Many problems can be spotted by visual inspection of the truck including oil leaks, damaged tires, cracks in welds or forks, damaged covers, etc.

Dirt, grease, oil and debris can mask some problems.

The hydraulic fluid used to lift the primary cylinder is applied sequentially to the secondary cylinder. When the primary cylinder reaches full extension, the secondary cylinder begins to extend. The differences in weights being supported by the cylinders, along with the differences in cylinder diameters, ensure that the primary cylinder will be fully extended before the secondary cylinder can begin to move. Consequently, when the mast is raised, it moves through two phases:

- Free lift, in which only the carriage assembly moves, up to the maximum height allowed by the inner rails. See Figure 3-3.
- Rail extension, in which both the middle and inner rails move, carrying the carriage upward. See Figure 3-4.

Downward movement of the mast is accomplished by releasing the hydraulic fluid from the cylinders back into the reservoir. The weight of the rails and carriage provides enough pressure to force the fluid from the cylinders. When the secondary cylinder piston is fully contracted, the primary cylinder begins to collapse, forcing its fluid back to the reservoir.

The mast is supported by trunnions, which allow it to tilt fore and aft. Two short hydraulic cylinders are mounted between the mast and the pivot arm to control the amount of tilt. A mast indicator gauge (pointer) is located on the right side of the mast to indicate when the carriage/forks are perfectly level with the floor.

As an option, trucks may be equipped with quad masts which utilize four sets of rails, referred to as Outer, Outer Intermediate, Middle, and Inner rails, respectively. See Figure 3-5. The primary cylinder and carriage operate the same as a triplex (three-rail) mast. When the secondary cylinders extend, they lift the middle rails. Through an intricate system of chains and sheaves, the rising middle rails pull up the outer intermediate rails at half the middle rail speed, and push up the inner rails at twice the middle rail speed.

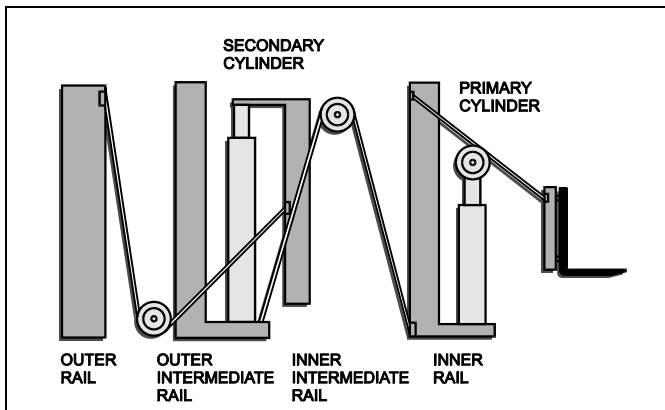


Figure 3-5: Quad Mast in Collapsed Position

Operator Training & Safety



WARNING

Every forklift operator must be trained in accordance to the rules provided by appropriate legislation. Your employer must ensure that each powered industrial truck operator is competent to operate a powered industrial truck safely, as demonstrated by the successful completion of the relevant training course. Operating a powered industrial truck without the proper training can cause serious injury or death.

Before you start using your R60 LPG forklift you must become familiar with its capabilities and thoroughly read and understand the material contained in this Operator's Manual and the various machine signs (decals) found on your vehicle. Whether you are a new operator or have used forklifts for many years, read through this Operator's Manual. It provides step-by-step instructions to help you operate your R60 LPG forklift in a safe and efficient manner.

Understanding Stability



WARNING

Never load truck beyond its rated capacity. Loading beyond rated capacity can cause axles to break, truck to tip over, load to fall, or serious injury or death. See identification plate for rated capacity and load center information.

Never allow anyone to stand beneath or pass under the lifting mechanism. The load could fall causing serious injury or death.

Make sure that the load is centered and the forks are fully engaged. Failure to do so can cause the load to fall, or the truck to tip over, resulting in serious injury or death.

The leading causes of accidents involving forklift trucks are due to the lack of understanding of how forklift trucks operate, especially when it comes to stability. If you don't understand the concepts of stability, you may tip over your R60 LPG forklift truck, which can cause serious injury or death.

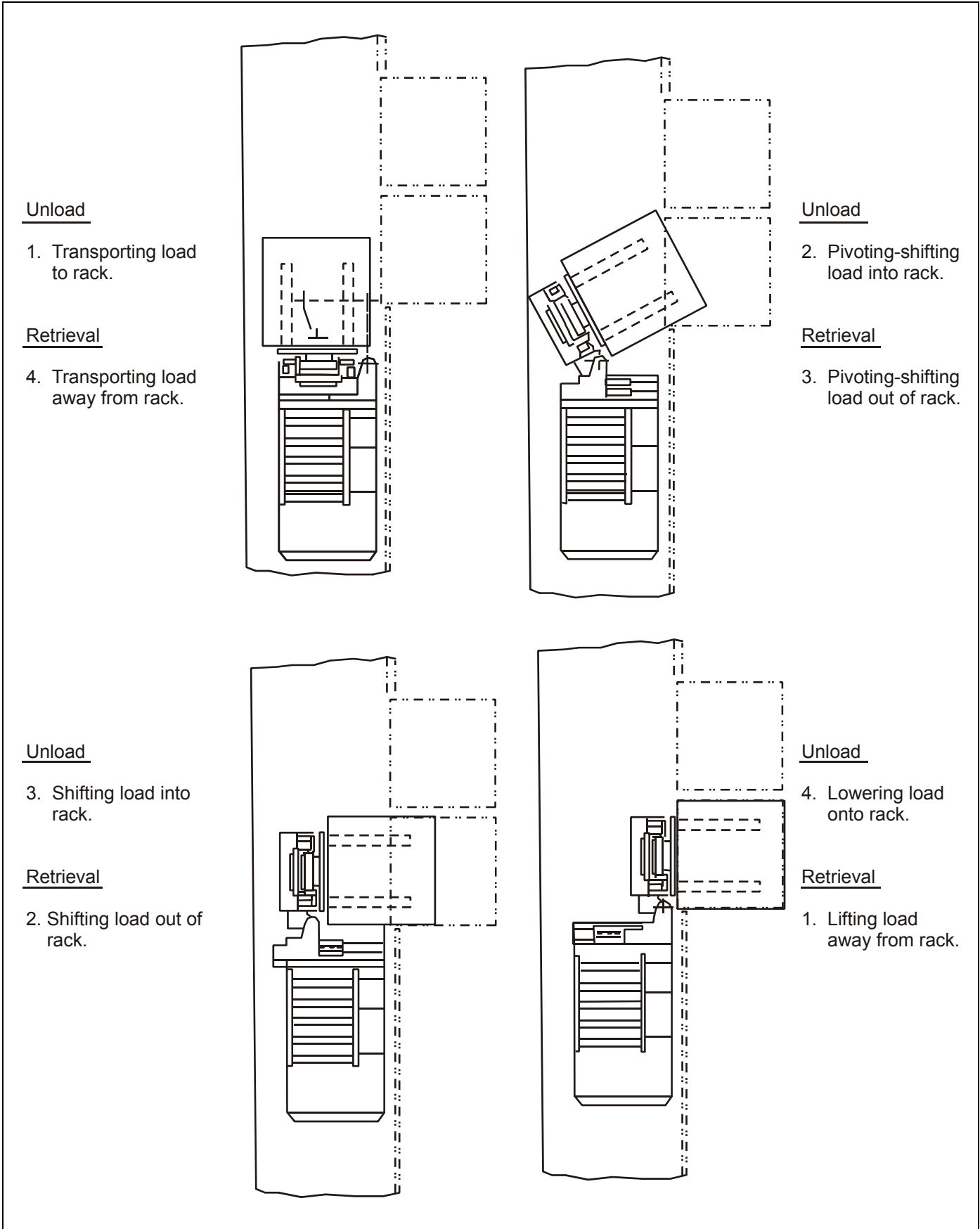


Figure 4-4: Load Handling

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