



*Bendi*®

**Model B55 AC  
Operator's Manual**



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F-595-R1

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## FORKLIFT SAFETY AND FAMILIARITY

### Operator Safety



#### WARNING

- Check that all directional controls are in their **NEUTRAL** position and your seat belt is fastened before setting the Keyswitch to **ON**. See “Seat Belt” on page 1-6.
- To avoid personal injury, when operating the truck, be extremely cautious that **NO** part of your body (feet, arms, legs, fingers, clothes) are outside the operator’s compartment. Serious injury by obstacles, aisle supports or other trucks may occur.
- Know the location of all pinch points, as indicated by the **WARNING** and **DANGER** labels on the truck.
- Be cautious when there are other people or fixed objects in the working area.
- Be cautious when the load reduces visibility, see “Visibility” on page 1-9.



#### WARNING

- Ensure that people stand clear of the rear swing area before making turns.
  - **NEVER** lift, lower or transport people.
  - **NEVER** allow anyone on or under the forks (or load). Never allow riders anywhere on the truck, other than the operator.
  - When driving in narrow aisles, make sure there is enough space for the truck and the load, travel at reduced speeds, and where applicable, request a helper to guide you safely through the area.
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- *The operator is responsible for observing all instructions and safety regulations in their daily work routine.*
  - *Be careful at cross aisles, doorways and other locations where people may step into the path of travel of the truck.*
  - *Check the condition of the truck at the start of each work shift. In particular, check the operation of the steering and brakes, the direction control lever, tilt and lift/lower, the condition of the battery, parking brake, horn, and signaling devices.*
  - *Make sure all access/service panels, doors and covers are installed, closed and latched tight. Do not operate the truck with panels, doors and covers removed, opened or unlatched.*

## RECEIVING/INSPECTING/TOWING/SHIPPING

### Storage, Towing or Shipping

#### Truck Storage

For long-term storage, the truck battery should be removed and stored where it can be periodically checked and recharged every three months. In general, batteries that are fully charged with the electrolyte at the proper level may be stored for up to one year. Batteries should be stored in a cool, dry, well-ventilated area, covered with a non-conductive material to protect them from dirt, moisture, etc.

#### **IMPORTANT**

**Do not drape flexible plastic sheeting over batteries as it might trap explosive gases underneath. For batteries stored for more than one year consult the manufacturer.**

Consult the battery documentation or the manufacturer for storage method and routine inspection required during the temporary storage interval.

The truck should be stored indoors within a temperature range of +35° F (2° C) to +115° F (46° C). Areas of high humidity should be avoided when possible. The truck should be raised with the tires at least 2" (51 mm) off the floor and the frame set on large wooden blocks. Hard polyurethane tires over long periods of time can develop flat spots that may not return to normal when the truck is returned to service, rendering the tires defective.

If the truck must be stored outside, it must be covered securely with a tarpaulin. Continued exposure to sunlight will cause deterioration of rubber tires, as well as gaskets and hoses, etc.

#### Towing the Truck



#### **WARNING**

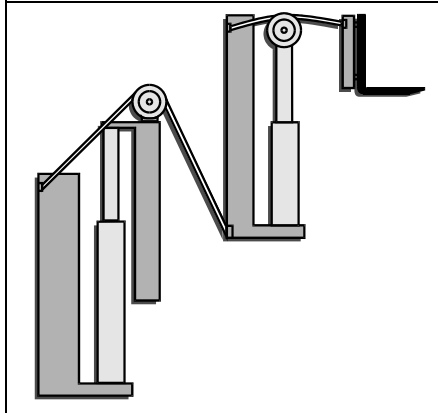
- **Make sure the towing equipment is capable of handling the weight of the truck being towed.**
- **Never lift a truck using straps, chains or hoists of any type.**
- **Never connect lifting equipment to the operator's compartment overhead guards.**
- **Never tow a truck that is carrying a load.**
- **Never connect towing equipment to the mast.**

If the truck breaks down and cannot be repaired at that location, it may be towed by attaching a suitable hook and chain to the tow pin located in the rear of the truck. See Figure 2-1. Remember with no power to the truck being towed, steering will be difficult. Carefully and slowly tow the truck backwards to your service repair area.

#### **NOTE**

*An operator must be on the towed truck, wearing a seat belt.*

## UNDERSTANDING B55 AC TRUCK



**Figure 3-5 Mast Fully Extended**

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:

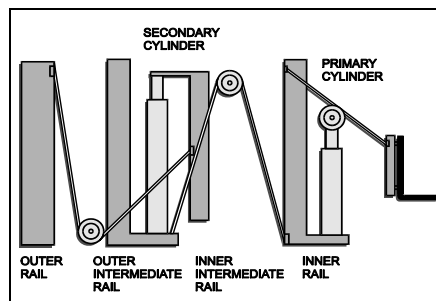
- Free lift, in which only the carriage assembly moves, up to the maximum height allowed by the inner rail. See Figure 3-4.
- Rail extension, in which both the middle and inner rail moves, carrying the carriage upward. See Figure 3-5.

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 3-6. 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 3-6 Quad Mast in Collapsed Position**

## UNDERSTANDING B55 AC TRUCK

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### **Chemical Hazards**

Know the chemical substances you are moving, in case of an accident. You're to handle stable, reactive or flammable substances differently. As an example, if you puncture a drum that's flammable, you need to exit the truck immediately, etc.

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## OPERATING THE B55 AC TRUCK

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To slow down, release the accelerator and the truck will automatically slow down to creep speed. Your B55 AC forklift will also “brake by plugging” if you change direction with the direction control switch. The truck will come to a smooth stop and then reverse direction. This process is automatic, DO NOT press the brake pedal. For an emergency stop release the accelerator and press hard on the foot brake pedal with your right foot.

- The forklift is clear of fire exits, fire equipment and stairways.
- The truck should not be left unattended on an incline. If the truck is inoperative and you must leave it parked on an incline securely block the wheels and remove the key.

### **NOTE**

*Make sure all accessories are off (lights, etc.) before you turn the Keyswitch to the Off position.*

### **Stopping Distance**

Stopping distance changes with the your speed, incline and quality of the road surface and braking tires. To make sure you come to a safe stop:

- Reduce speed.
- Allow adequate distance between the your truck and any other vehicle, object or person.

### **Parking**



#### **DANGER**

- **When you exit the vehicle, place all controls in neutral.**
- **If you leave the truck unattended, fully lower the mast, turn the Keyswitch Off and remove the key.**
- **Failure to properly park and exit your forklift can cause serious injury or death.**

Before you park the vehicle ensure:

- The parked truck will not cause an obstruction or safety hazard.

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## OPERATING THE B55 AC TRUCK

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Special rules should be followed if your workplace uses dockboards on loading docks:

- Never exceed the carrying capacity marked on portable or powered dockboards.
- Portable dockboards must be secured in position, using anchors or other devices that prevent slipping.

Before you load or unload a truck or trailer make sure it does not move unintentionally by setting the brakes and blocking the wheels. In addition to setting the brakes and blocking the wheels, if a trailer is not coupled to a tractor make sure that all four corners are supported to prevent upending or corner dipping. Maintain a safe distance from the edge of ramps, platforms or other similar working surfaces.

Do not move trailers with a B55 AC forklift.

### Warning Devices

Sound the horn at an intersection. Stop and look for other vehicles and/or pedestrians and proceed with caution. Your B55 AC forklift may have other optional warning devices installed. Make sure they are in working order before you start work for the day:

- An amber overhead flashing beacon.
- Flashing backup light.
- Rear safety light package.
- Back-up alarm.

### Fire Extinguisher Option

If your truck includes a fire extinguisher it should be inspected monthly or more frequently if circumstances dictate. The extinguisher should be checked to see that:

- it is not damaged.
- the discharge outlet is not blocked.
- it is fully charged and the seal is not broken.
- the instruction pamphlet is clearly visible.

#### **IMPORTANT**

**Dry-powder extinguishers are shipped fully charged. Do not experiment with your extinguisher since even a small amount of discharge could cause it to slowly lose the rest of its pressure, rendering the extinguisher useless.**

## OPERATOR'S DAILY CHECKLIST

### Accelerator Control

With the Keyswitch set to ON and the direction control in the forward position gradually press on the accelerator. The further you press on the accelerator pedal the faster the truck will go. Let up on the accelerator and the truck should come to a controlled stop. Check to make sure the pedal does not stick or catch. If anything wrong is found remove truck from service immediately and repair.

### Lift Chains

#### Primary Lift Chain (Duplex, Triplex and Quadplex Masts)

Visually inspect the chain for cracks, stretched or stressed links and broken pins. When raising the mast listen for usual chain noise and watch the action of the chain for anything unusual. Watch for unusual pulley movement or pulley wobble that would indicate a worn mast bearing.

### Forks



#### CAUTION

- Do not service carriage forks while the Keyswitch is on. If a control is accidentally moved, serious injury could occur.
- It is recommended to use only Landoll Corporation replacement parts. Use only quality forks that are forged or have an up-set heel and that have the same capacity rating as the factory installed forks.
- Never use forks repaired by welding.
- Always replace both forks. Switching forks from one truck to another can be dangerous if the capacity of the forks is not known.
- Check the forks for cracks, closely at the heel portion of the forks. Replace the fork if cracks are found. Never attempt to repair, weld or alter a fork.

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