

Bendi

NARROW AISLE FORKLIFT

PLANNED MAINTENANCE MANUAL

BENDI IC TIER II MODEL



MATERIAL
HANDLING PRODUCTS

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Tools or Equipment Required

In addition to a good portable light source and various tightening tools, the following tools and equipment may be required:

- Hydraulic jack, appropriate for the weight being raised.
- Safety stands, appropriate for the weight being supported.
- Overhead crane, appropriate for the weight being lifted and/ or supported.
- Grease gun.
- Torque wrench - capable of measuring at least 500 ft. lbs. (678 Nm).
- Drain pan, capable of holding at least 13 gallons (50 liters) of hydraulic fluid.

Special Tools Required

The following special tools may be required:

- Angle wrenches

Inspection and Maintenance Program

Inspection Program

The inspection program designed by Landoll Corporation periodically checks the integrity of Bendi forklift systems such as:

- Checking performance of operator functions such as lift, tilt, side shift, attachment, and traction systems
- Checking for leaks
- Checking fluid levels
- Making sure components are securely attached
- Checking the tires

To make sure these and other systems are checked periodically, Landoll Corporation has developed a system of checklists. A blank copy of each checklist can be found in Appendix A of the Bendi IC Operator's Manual (F-407-___). These checklists include:

- Operator's Daily Checklist
- 200 Hour Inspection Checklist
- 600 Hour Inspection Checklist
- 1000 Hour Inspection Checklist
- 2000 Hour Inspection Checklist
- Installation Checklist
- Customer IC Truck Installation Report

Except for the Operator's Daily Checklist, these tasks are usually performed by a service and maintenance facility that is approved by Landoll Corporation.

Check Driver's Seat Switch

This procedure checks the physical mechanics (actuation) of the driver's seat switch only. The switch is part of the seat (See Figure 2-5).

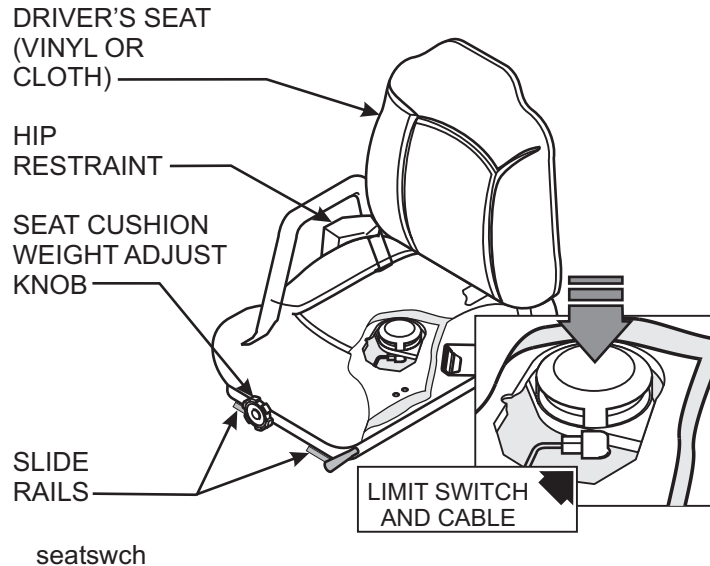


Figure 2-5 Driver's Seat Switch

1. Start the truck and release the parking brake.
2. The seat switch and actuator are internal to the seat cushion, located on the under side of the seat cushion between the cushion and the bottom plate (See Figure 2-5).
3. Set the direction control in either FORWARD or REVERSE and slowly apply acceleration. As the truck begins to slowly move in either direction, lift yourself from the driver's seat just enough to release the switch in the seat cushion.
4. **The truck must come to an immediate STOP.**
5. If the truck continues, see "Seat Switch," in the Bendi IC Troubleshooting and Corrective Maintenance Manual (F-412-___).

Side Shift Circuit Maintenance

The following information is provided for authorized service facilities **ONLY**.

Perform maintenance on the side shift circuit as required by the 200/600 Hour Checklists and Routine Maintenance Schedule for Bendi Forklifts located in Appendix A. Guidelines are provided in the following paragraphs.

Warning

Before you remove any hoses or tubes, relieve hydraulic system pressure. With the truck off, open the truck auxiliary control valve(s) several times in both directions.

Check for hydraulic fluid leaks using a piece of cardboard or wood. Do not use your bare hands. Remember to wear safety glasses.

Hydraulic oil can be under very high pressure. A pinhole leak is not easily seen and if it pierces your skin, can cause gangrene, and possibly death, if not treated immediately by a physician familiar with this type of injury.

- Check the hydraulic system pressure at the carriage hose fitting. Refer to the truck service manual for details on measuring hydraulic system pressure. The minimum recommended pressure is 2000 psi (140 bar). System pressure must not exceed 3500 psi (245 bar).
- Check the hydraulic system flow volume at the carriage hose fitting. The recommended flow volume is 2 GPM (7.5 L/min).

Checking for Leaks

To check side shift circuit performance.

1. Side shift completely to the left and hold the control handle in this position for 5 seconds. Check for external leaks at the cylinder, fittings, and hoses.
2. Side shift completely to the right and hold the control handle in this position for 5 seconds. Check for external leaks at the cylinder, fittings, and hoses.

Fork Positioner Lubrication, Non-Side Shifting

1. Start the truck and position the mast straight ahead.
2. Set the key switch to OFF and place the key in your pocket.

⚠WARNING

Do not service the fork positioner while the key switch is ON. If the pivot or tilt joystick is accidentally moved, serious injury could occur.

3. Before lubricating the positioner rails, wipe off excess lubricant and dirt buildup from within the rail channels and dirt from the top and bottom of the rail grooves.
4. Using a brush, lubricate the shaded areas on the fork rails, including a thin film on the front face of both rails (See Figure 2-21).
5. Wipe off excess grease.

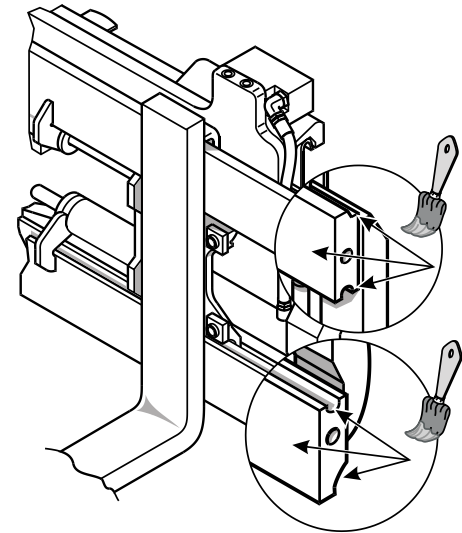


Figure 2-21 Fork Positioner, Non-Side Shifting

Check Radial Piston Hydraulic Motor

These units are internally lubed by fluid in the hydraulic system. No lubrication or checks are necessary.

Chain Maintenance

Regular inspection and lubrication of the chains will increase their service life and reduce downtime. When you perform chain maintenance, make sure you follow the guidelines in “Chain Inspection”, “Chain Lubrication”, “Chain Adjustment”, and “Measuring Chain Stretch”.

Chain Inspection

Inspect the chains as required by the 200/600 Hour Checklists and Routine Maintenance Schedule for Bendi Forklifts in the Bendi IC Operator's Manual (F-407-___). Check for the following:

- Chain wear. If one chain appears to be worn replace both chains of the pair.
- Rust and corrosion. If chain joints become tight from rust and corrosion, loosen them with SAE 40W oil or penetrating oil. If they cannot be loosened, or if the tight joints are caused by bent pins, plates, or peened plate edges, replace both chains.
- Cracked side plates. Replace both chains.
- Protruding or turned pins. Replace both chains.
- Side wear. If pins and outside plates show signs of wear, check for misalignment of sheaves, anchors or other components. Correct the misalignment. If wear is excessive, replace both chains.
- Worn, broken or misaligned chain anchors. Replace or adjust as required.

Chain Lubrication

Caution

The chains must be coated with a film of lubricant at all times.

- Lubricate the chains as required by the 200/600 Hour Checklists and Routine Maintenance Schedule for Bendi Forklifts located in Appendix A of the Bendi IC Operator's Manual (F-407-___). Use lubricant listed on the Lubrication Chart located in Appendix B of the Bendi IC Operator's Manual (F-407-___).
- Each pair of chains has been factory-lubricated using heat and pressure to force the lubricant thoroughly into the chain links. Avoid removal or contamination of this factory applied lubricant. Do not wash, sand blast, etch, steam clean, or paint the chains.

Chain Adjustment

The chain must be adjusted so each strand is under equal tension for proper load distribution and mast operation.

To determine whether the chains are properly adjusted:

1. Remove load from forks.
2. Extend the mast to put the chains under tension.
3. Press the center of a strand of chain with your thumb, then press at the same place on the other chain of the pair.
4. Each chain in a pair should have equal “give”. If tension is not equal, adjust them as described in the manufacturer's mast service manual.

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