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MODELS

## ZWF-30, ZWF-31, ZWF-32, ZWF-31S Hydraulic Wedge Jacks

# Operation & Maintenance Manual

### Important Receiving Instructions

Visually inspect all components for shipping damage. Shipping damage is NOT covered by warranty. If shipping damage is found, notify carrier at once. The carrier is responsible for all repairs and replacement costs during product shipping.

### Safety Information

Read and follow all **instructions, warnings, cautions** and carefully. Follow all safety precautions to avoid personal injury or property damage during system operation. **ZINKO** is not responsible for damage or injury resulting from unsafe product use, lack of maintenance, or incorrect product and/or system operation. Contact **ZINKO** when in doubt as to the safety precautions and operations. Failure to comply with the following cautions and warnings could cause equipment damage and personal injury.

### Operation Instructions

It is the operator's responsibility to read and understand all of the following safety statements:

**IMPORTANT: Always be sure to use the appropriate type of wedge jack for your specific application.**

**Standard Model: ZWF-30.** The standard model is designed for use in a variety of applications where the wedge is **not** in full contact with a flat surface (such as a concrete floor). Ideal for rescue operations, pipefitting, and above ground structure adjustments.

**Floor Models: ZWF-31 & ZWF-32.** The floor models are designed for use when in direct contact with a flat surface. Ideal for moving and/or adjusting heavy machinery. NOTE: When using floor models with the top-plate in the "back" position, greasing the wedge is recommended.

**Short Models: ZWF-31S.** ZWF-31S is designed with a shorter frame at 21.75 inches. The shortened frame reduces weight (28 lbs.) making for greater portability. This model also comes with a classic wooden storage case.

The ZWF Series features a 4 way manual valve control with *advance/hold/return* positions.

#### To advance the piston:

1. Turn the 360 degree handle to the position where it is pointed away from the object.
2. Place the wedge in the desired position for operation.
3. Turn the valve control to the *advance* position and begin pumping the handle.
4. Pump handle until the desired opening is reached.
5. Move the valve control to the *hold* position and support the opening with adequate supporting material.

#### To retract the piston:

1. Turn the valve control to the return position and begin pumping the handle until the wedge detaches from the object.

#### The hold position:

After a desired opening is reached, you can move the 4 way manual valve to the *hold* position. This will prevent the wedge from advancing or retracting.

**IMPORTANT: Never use any type of clamp or wrench on the piston. Any surface damage to the piston can result in serious damage to the unit and cause malfunction.**

### Servicing

Always inspect unit before using. If any suspected problem arises, bring the unit to an authorized **ZINKO** service facility immediately for further inspection.

### Adding Oil

In a case where the piston will not fully extend, oil may need to be added. To do so:

1. Make sure the piston is fully retracted.
2. Remove the oil plug located in the oil filter at the back side of the unit.
3. Pour only approved hydraulic oil into filler while simultaneously pumping the handle (pumping the handle advances the piston pulling oil into the chamber).
4. Continue adding oil until the piston is fully advanced. Make sure to completely fill the chamber.
5. Loosely replace the oil plug to allow any trapped air in the system or extra oil to escape.
6. Place the 4 way manual valve to the *return* position and begin pumping until the piston is fully retracted.
7. When piston is fully retracted, tighten the oil plug fully to seal the oil filler.

### Greasing the Wedge

All wedge moving wedge surfaces should be kept well greases at all times to prevent damage to the system (especially for floor type wedge jacks). Any high quality machine grease is appropriate.



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