



Toll Free: 1-800-579-8088 Web: www.zinko.com

MODEL

ZML-800 (800 lbs)
Telescopic Transmission Jack

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.

For Your Safety and To Prevent Injury

Read, study and understand all warning labels and operating instructions furnished with this equipment prior to use. If any portion of this material is unclear, contact your representative for clarification. Never allow unskilled or improperly trained personnel to operate this equipment. Use of the transmission jack is limited to the removal and installation of transmissions, transaxles and vehicle components for which appropriate adapters are supplied. DO NOT lift or support vehicles with transmission jack.

Caution Remarks Used In This Manual



indicates a potential danger that requires correct procedures or practices to avoid personal injury.

Operator Responsibility

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



1. Be sure vehicle is appropriately supported before starting repairs. **This jack IS NOT a load supporting device.**
2. **DO NOT OVERLOAD.** Overloading can cause damage, failure of the jack, and/or personal or fatal injury.
3. **Use only on hard level surfaces capable of sustaining the load.**
4. Always use the load restraint belt, corner support bracket, and attachments to stabilize and firmly secure the load to the saddle. Insure that the load restraint belt is tight and properly positioned to effectively harness the load. **NEVER USE THIS JACK WITHOUT A LOAD RESTRAINT BELT THAT IS STRONG ENOUGH TO SUPPORT THE TRANSMISSION.**
5. Prior to transporting the load, insure that the jack is adjusted so the saddle is in the lowest horizontal position possible, and the load is centrally located on the saddle.
6. **DO NOT modify this equipment or remove load restraint belt.**
7. It is your responsibility to keep all warning labels and instruction literature legible and intact. Replacement labels and literature are available from the factory.
8. Failure to heed these warnings may result in equipment and/or property damage and/or personal or fatal injury.

Purging Air From the Jack

The jack may become "air-bound" during shipment. You may experience the air-bound condition if the hydraulic unit does not function properly during the pumping operation. To purge air from the jack, follow these steps:

1. Make sure the rams are in a retracted position.
2. Have one person depress the release pedal while at the same time another person activates the pump foot pedal about 20 times.
3. Remove your foot from the release pedal and the jack should function properly. **NOTE:** Sometimes air may be trapped in the top cylinder which requires bleeding air out of the *air bleeder screw* in the top cylinder nut. Pump the jack to maximum extension or as high as you can pump it. Insert an allen wrench in the air bleeder screw located in the top cylinder nut and loosen the screw slowly while pushing the saddle assembly down. Continue opening the screw slowly until nothing but oil drains out of the hole. Tighten the screw and operate normally. It may be necessary to repeat this step several times.

Operating Instructions

Preparing the Vehicle for Transmission Removal or Installation



The entire vehicle must be lifted and supported (use under-hoist stands) high enough above the floor so there is space for the jack with transmission to clear the vehicle.

IMPORTANT: It is important to know the center weight balance of the transmission. The transmission saddle should support the center balance of transmission weight. Consult the vehicle manufacturer for information on the transmission.



USE ALL THE PRECAUTIONARY MEASURES GIVEN BY THE ABOVE GROUND LIFT MANUFACTURER TO SECURE, SUPPORT, AND LIFT THE VEHICLE TO ITS REQUIRED HEIGHT.

Zinko Hydraulic Jack

Model: ZML-800 Operating Instructions (*continued*)

Lowering the Load

To lower the jack, simply depress the desired pedal slowly. The saddle stops lowering when the operator removes foot from the release pedal.

1. DO NOT use the jack beyond its rated capacity or for purposes other than what were intended.
2. The jack and load may be lowered by depressing the release pedal with your foot. Light depression of the release pedal lowers the jack slowly. Be careful not to fully depress the release pedal when the jack is under load. Operate the release pedal without load on the jack to familiarize yourself with the control of speed to lower the jack.



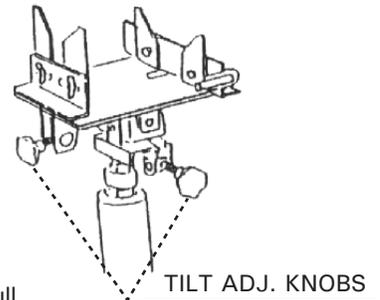
WARNING Always use the proper release pedal for lowering the jack. Using the small pedal incorrectly when the jack is loaded may result in equipment and/or property damage and/or personal or fatal injury.

Raising the Load

1. Make sure the load to be raised is positioned properly and securely attached to the saddle assembly with the restraint system provided.
2. Pump pedal to raise saddle to contact load. Position jack so weight of load will be equally distributed on saddle, and adjust pitch and tilt controls as necessary. Position corner support brackets and secure load with load restraint belt. Make sure the load to be raised is positioned properly and securely attached to the saddle with the restraint system provided.



WARNING Always use the load restraint belt, corner support brackets, and attachments to stabilize and firmly secure the load to the saddle. **The belt should be used as follows:** Hang the open end of the belt through the two "U" shaped slots beneath the saddle plate. Place the belt over the load, pull tight and engage into the buckle at the other end of the belt. Tighten the strapping and lock the buckle.



Removing the Transmission

1. Consult the vehicle manufacturer's instructions regarding transmission removal.
2. Place the jack so the saddle assembly will lift the center balance of the transmission weight. Pump the jack up until the saddle is close to the transmission oil pan.
3. Once the saddle is centered and positioned near the transmission oil pan, adjust the saddle base and corner support brackets (adapters) so the flange of the transmission pan will rest on the top edge of the adapters. The adapters must then be secured to the saddle by tightening the hex bolts. Now gently raise the saddle so the adapters are supporting the transmission pan flanges.
4. Use the load restraint belt, corner support brackets, and attachments to stabilize and firmly secure the load to the saddle.
5. Use the saddle plate tilt knobs, forward/backward or side-to-side tilting, to adjust the load to a proper position for transmission removal or for alignment with the engine.

Installing the Transmission

1. After removal of the transmission it is recommended to keep the transmission jack saddle adjustment the same. This will help in installing the transmission into its proper position.
2. Proceed with the installation of the transmission in accordance with the vehicle manufacturer's instructions.

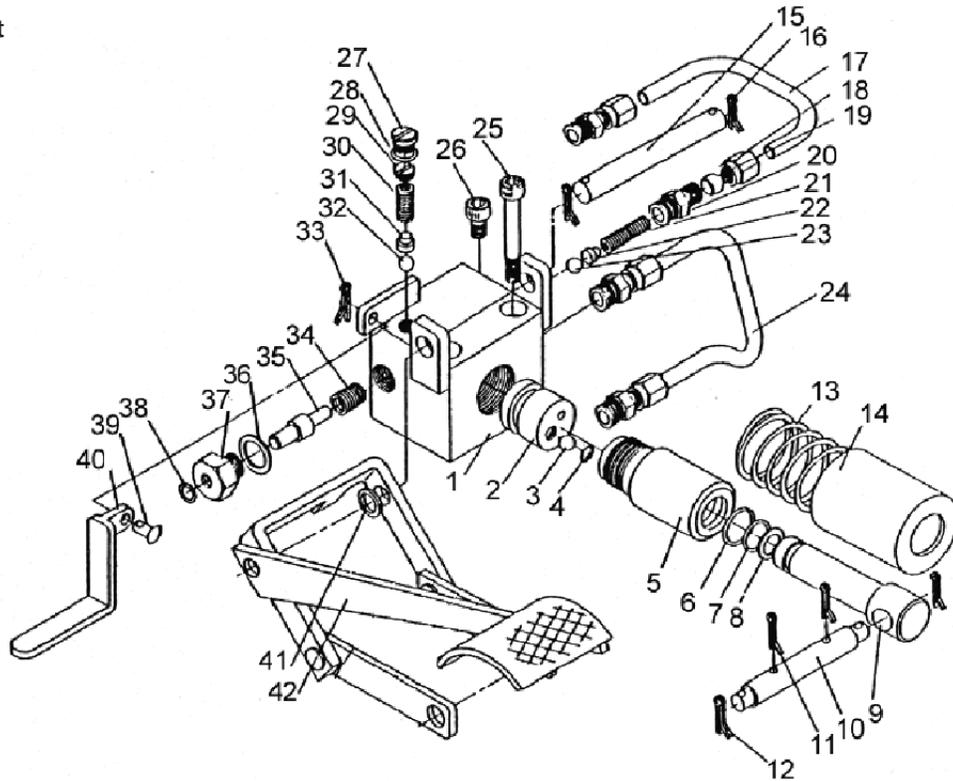
Maintenance Instructions

1. Lube the jack regularly. A medium weight lubricating grease should be used on all external moving parts, such as bearing surface, pivot points, tilt screws, etc.
2. Regularly check oil level. With the saddle fully lowered, remove oil plug and check oil level. Fill if necessary.
3. If jack fails to operate, check oil level and/or bleed unit before seeking service.
4. DO NOT use this jack as a wash rack when washing or steam cleaning transmissions.

Zinko Hydraulic Jack

Model: ZML-800 Parts Breakdown

Pump Unit



Pump Unit

Part #	Description
9140008-P1	Pump Body
9140008-P2	Valve
9140008-P3	Ball
9140008-P4	Stop Ring
9140008-P5	Pump Plunger
9140008-P6	*O-Ring
9140008-P7	*O-Ring
9140008-P8	*Backup Ring
9140008-P9	Piston
9140008-P10	Pin
9140008-P11	Pin
9140008-P12	Pin
9140008-P13	Spring
9140008-P14	Piston Case
9140008-P15	Pin
9140008-P16	Pin

Part #	Description
9140008-P17	Hydraulic Pipe
9140008-P18	Nipple
9140008-P19	Nipple
9140008-P20	Nipple
9140008-P21	Spring
9140008-P22	Stop Pin
9140008-P23	Ball
9140008-P24	Hydraulic Pipe
9140008-P25	Socket Ball
9140008-P26	Socket Ball
9140008-P27	Safety Valve
9140008-P28	*O-Ring
9140008-P29	Stop Nut
9140008-P30	Spring
9140008-P31	Safety Valve
9140008-P32	Ball

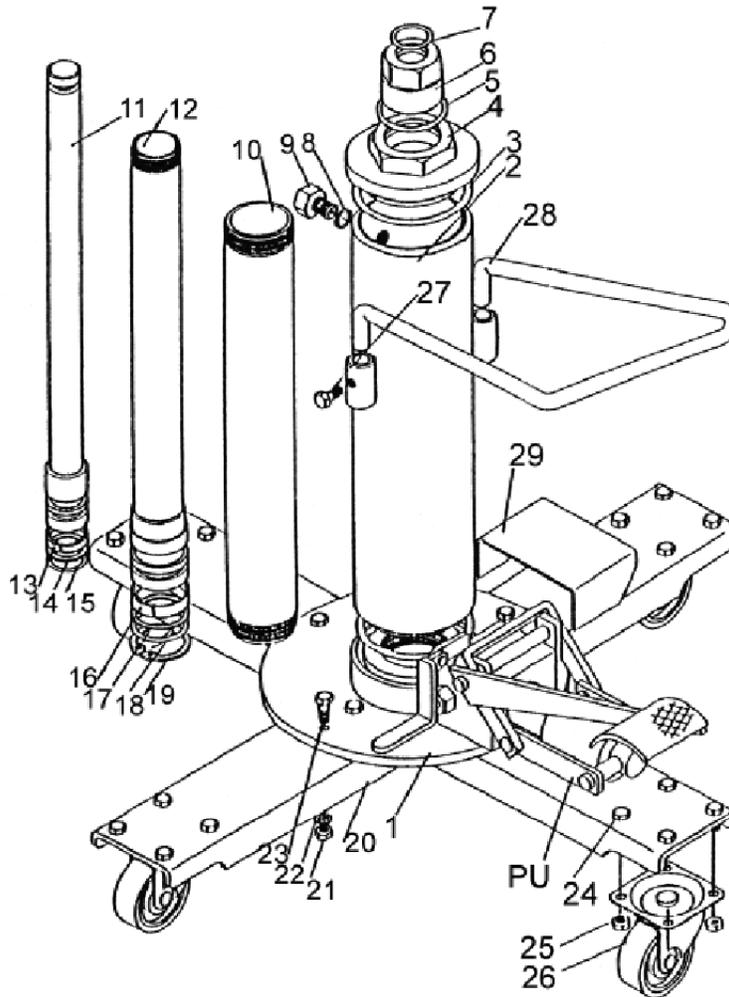
Part #	Description
9140008-P33	Pin
9140008-P34	Spring
9140008-P35	Spring Hanger
9140008-P36	Backup Ring
9140008-P37	Nut
9140008-P38	*O-Ring
9140008-P39	Pin
9140008-P40	Down Pedal
9140008-P41	Washer
9140008-P42	Pedal Assy
9140008-P-A	Piston Assy
9140008-P-B	Piston Packing Seat
9140008-P-C	Pressure Valve Set
9140008-P SK	Seal Kits

* Included in Seal Kits

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Model: ZML-800 Parts Breakdown

Frame Unit



Frame Unit

Part #	Description
9140008-PU	Pump Unit Assy
9140008-1	Cylinder Body Assy
9140008-2	Oil Tank
9140008-3	*O-Ring
9140008-4	Nut
9140008-5	*O-Ring
9140008-6	Nut
9140008-7	*O-Ring
9140008-8	*O-Ring
9140008-9	Air Valve
9140008-10	Cylinder

Part #	Description
9140008-11	Main Piston
9140008-12	Cylinder Piston
9140008-13	*Tape O-Ring
9140008-14	*Backup Ring
9140008-15	*O-Ring
9140008-16	*Tape O-Ring
9140008-17	*Backup Ring
9140008-18	*O-Ring
9140008-19	*Stop Ring
9140008-20	Legs
9140008-21	Nut

Part #	Description
9140008-22	Washer
9140008-23	Screw
9140008-24	Screw
9140008-25	Nut
9140008-26	Wheels
9140008-27	Screw
9140008-28	Grip
9140008-29	Case
9140008-SK	Seal Kits

* Included in Seal Kits



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