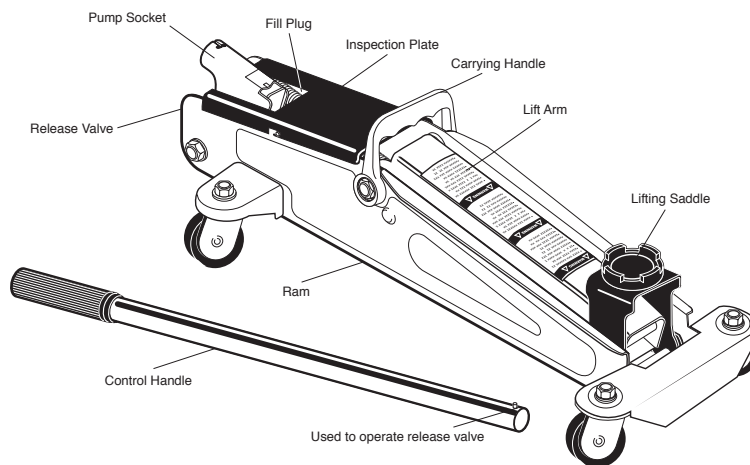


Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

# WESTWARD® Hydraulic 2.5 Ton Spider Jack

## Description

This Westward Hydraulic 2.5 Ton Spider Jack is designed for lifting, but not sustaining a lift. The Spider Jack (1MZK7) rotates 360° for maximum maneuverability and easy placement. It is to be used in conjunction with jack stands. Intended use: To lift one axle of a vehicle for the purpose of service and /or repair of vehicle components. After lifting, loads must be immediately supported by appropriately rated jack stands. Check with vehicle manufacturer's owners manual for proper lift points. This jack complies with applicable ASME / ANSI Standards.



## Specifications

| Model | Capacity | Chassis Length | Handle Length | Low Pick Up Height | High Lifting Point |
|-------|----------|----------------|---------------|--------------------|--------------------|
| 1MZK9 | 2.5 Ton  | 21-1/2"        | 20-1/2"       | 5-1/2"             | 15-1/2"            |

## General Safety Information

### ⚠ WARNING

**Study, understand, and follow all instructions before operating this lifting device. Intended use is for lifting part of a total vehicle, only one wheel or axle at a time. Immediately after lifting, support the vehicle with appropriate means. Do not get under or allow anyone under vehicle until supported by jack stands. Do not exceed rated capacity. Use only on hard, level surfaces capable of sustaining rated capacity loads. Lift only on those areas of the vehicle as specified by the vehicle manufacturer.**

**Do not move or dolly the vehicle while on the jack. Keep children away from jack. Ensure that the lift point is properly centered on the jack saddle. Always wear safety glasses when using this equipment. Inspect jack before each use. Do not use if bent, broken, leaking, or damaged components are observed. No alteration of this product is allowed. Do not use this device for any purpose other than that for which it was intended. Failure to heed any one or combination of these warnings may result in severe personal injury and/or property damage.**

## Assembly

1. Always secure the handle by pushing the handle into the socket and turning until the handle locks into place. Tighten securely to prevent accidental removal of handle while in use.
2. Before use, a visual inspection of the jack should be made looking for bent, worn or loose parts, or hydraulic leaks. If any of these conditions exist, the jack should be removed from service.

# **WESTWARD® Hydraulic 2.5 Ton Spider Jack**

## Operation

### **⚠ WARNING**

**Off-centered loads and loads lifted while jack is not level may damage the jack or cause personal injury.**

### RAISING VEHICLE

1. Make sure the jack and vehicle are on a hard level surface.
2. Always set the vehicle parking brake and block the wheels.
3. Consult the vehicle owners manual to ascertain the location of lift points and position the jack under the prescribed lift point.
4. Turn the release valve clockwise to the closed position. Do not over tighten!
5. To raise the vehicle to desired height, place the handle into the socket and pump up and down.
6. Place jack stands beneath the vehicle at locations recommended by the vehicle manufacturer. Do not get under the vehicle without jack stands. Jacks are not designed to maintain heavy loads for long periods of time.
7. Turn release valve slowly counterclockwise to lower load onto jack stands.

### **⚠ WARNING**

**This is a lifting device only. The load must be supported immediately by other appropriate means. Keep hands, feet, and clutter clear of ground area when lowering the load.**

### LOWERING VEHICLE

1. Turn the release valve clockwise to the closed position.
2. Pump the handle to lift vehicle off of jack stands
3. Remove the jack stands. Do not get under or let anyone else under the vehicle while lowering.
4. Turn the release valve SLOWLY counterclockwise to lower the vehicle onto the ground.

### **⚠ WARNING**

**Avoid shock loads created by quickly opening and closing the release valve as the load is being lowered. Shock loads can create dangerously high operating pressures within the hydraulic system, causing system failure and resulting in personal injury and/or property damage.**

## Inspection

The product shall be maintained in accordance with the product instructions. No alterations shall be made to this product.

1. The product shall be inspected immediately if the jack is believed to have been subjected to an abnormal load or shock. It is recommended that this inspection be made by an authorized customer service representative prior to use.
2. Repair of this equipment requires specialized knowledge and facilities. If the jack is subjected to abnormal load or shock, remove from service and have it examined by an authorized inspection facility for parts or repairs. An annual inspection of the product should be made by a manufacturer's authorized repair facility. Any defective parts, decals, or safety labels shall be replaced with manufacturer's specified parts.

## Maintenance

Monthly maintenance is recommended. Lubrication is critical to jacks as they support heavy loads. Any restriction due to dirt, rust, etc., can cause either slow movement or extremely rapid jerks, damaging the internal components. The following steps are those designed to keep the jack well lubricated:

1. Lubricate the ram, linkages, saddle and pump mechanism with light oil. Grease wheel bearings and axles.
2. Visually inspect for cracked welds, bent, loose, missing parts or hydraulic oil leaks.
3. If jack is subjected to abnormal load or shock, remove from service and have it examined by an Authorized Repair Service.
4. Clean all surfaces and maintain all labels and warnings.
5. Check and maintain the ram oil level.

**IMPORTANT: Do not use brake or transmission fluids, or regular motor oil as they can damage the seals. Always purchase and use products labeled Hydraulic Jack Oil.**

## CHECKING OIL

1. Turn handle counterclockwise to allow ram to fully retract. It may be necessary to apply force to the saddle for lowering.
2. With jack in upright position remove oil fill plug. Oil should be even with bottom of hole. If not, top up. Do not overfill. Always fill with new, clean hydraulic jack oil.

3. Replace fill plug.
4. Check jack operation.

## CHANGING OIL

For best performance and longest life, replace the complete fluid supply at least once per year.

1. With saddle fully lowered and pump piston fully depressed, remove the fill plug.
2. Lay the jack on its side and drain the fluid into a suitable container.

**NOTE:** Dispose of hydraulic fluid in accordance with local regulations.

3. Fill with good quality hydraulic oil, reinstall the fill plug.

## LUBRICATION

1. Applying a coating of light lubricating oil to pivot points, axles and hinges will help to prevent rust and assure that wheels, casters and pump assemblies move freely.
2. Periodically check the pump piston and ram for signs of rust or corrosion. Clean as needed and wipe with an oily cloth.

**NOTE:** Never use sandpaper or abrasive material on these surfaces !

## SYSTEM AIR PURGE

1. Turn release valve counterclockwise one full turn to open.
2. Pump handle eight full strokes.
3. Turn release valve clockwise to close valve.
4. Pump handle until the lift arm reaches maximum height and continue to pump several times to remove trapped air in the ram.
5. Carefully and slowly pinch oil fill plug to release trapped air.
6. Turn release valve counterclockwise one full turn and lower lift arm to the lowest position. Use force if necessary.
7. Turn release valve clockwise to closed position and check for proper pump action. It may be necessary to perform the above more than once to assure air is evacuated totally.

## Storage

Always store your jack in the fully lowered position. This will protect critical areas from excessive corrosion.

## Alterations

Because of the potential hazards associated with the misuse of this type of equipment, no alterations shall be made to the product without written authorization of the manufacturer or supplier.

# **WESTWARD® Hydraulic 2.5 Ton Spider Jack**

## **Troubleshooting Chart**

| <b>Problem</b>                     | <b>Possible Cause(s)</b>                                                                                                             | <b>Corrective Action</b> |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Jack will not lift to full height: | Low oil level                                                                                                                        | Check oil level          |
| Jack will not hold load:           | Release valve not closing<br>Hydraulic jack oil contaminated<br>Pump valves not sealing                                              | Call customer service    |
| Lift arm will not lower:           | Cylinder ram binding<br>Parts worn<br>Internal damage<br>Broken return spring <u>or</u> unhooked<br>Lift arm linkage bent or binding | Call customer service    |
| Jack feels spongy when lifting:    | See Air Purge section                                                                                                                | See Air Purge procedure  |

## **WESTWARD ONE-YEAR LIMITED WARRANTY:**

Should this Westward product fail to perform satisfactorily due to defect or poor workmanship within ONE YEAR of purchase, return it to your place of purchase and it will be replaced or repaired free of charge. Incidental or consequential damages are excluded from this warranty.

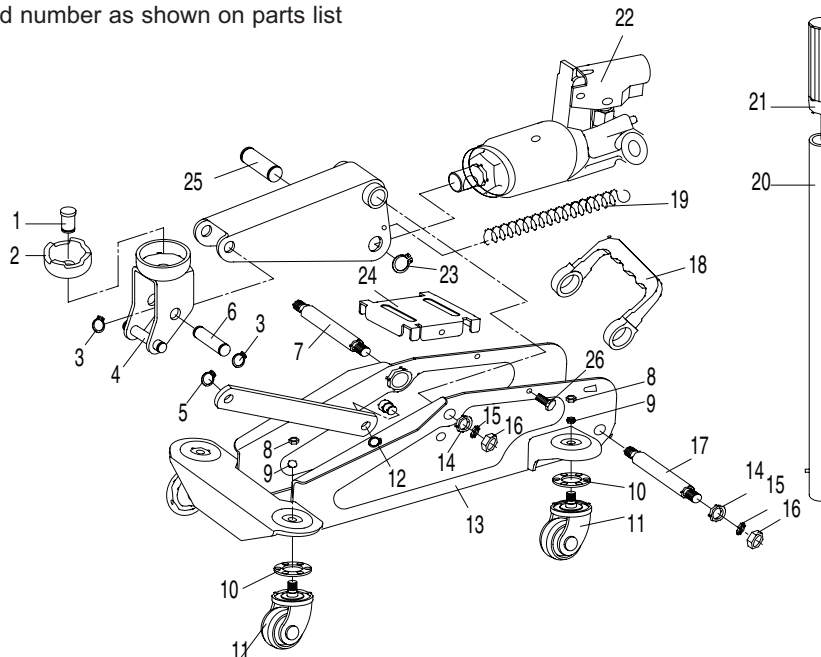
# **WESTWARD® Hydraulic 2.5 Ton Spider Jack**

**For Repair Parts, call 1-800-423-3598**

**8 AM - 5 PM PST., Monday through Friday**

Please provide the following:

- Model Number
- Serial Number (if any)
- Part description and number as shown on parts list



| DESCRIPTION |                |    |                  |
|-------------|----------------|----|------------------|
| 1           | Saddle Pin     | 14 | Washer           |
| 2           | Saddle         | 15 | Washer           |
| 3           | Locking Washer | 16 | Nut              |
| 4           | Saddle Bracket | 17 | Piston Rod Shaft |
| 5           | Locking Washer | 18 | Plastic Handle   |
| 6           | Saddle Shaft   | 19 | Return Spring    |
| 7           | Shaft          | 20 | Handle           |
| 8           | Nut            | 21 | Handle Cover     |
| 9           | Washer         | 22 | Power Unit       |
| 10          | Bearing Plate  | 23 | Locking Washer   |
| 11          | Caster Unit    | 24 | Inspection Plate |
| 12          | Locking Washer | 25 | Shaft            |
| 13          | Frame          | 26 | Nut              |
|             |                | 27 | Nut              |