

### Pow'r Claw Hydraulic Track Jacks Models TJ105LS & TJ109LS

L4073 Rev. B 08/21

## 1.0 SAFETY

### 1.1 Introduction

Read all instructions carefully. Follow all recommended safety precautions to avoid personal injury as well as damage to the jack and/or damage to other property. Enerpac cannot be responsible for any damage or injury from unsafe use, lack of maintenance or incorrect operation. Do not remove warning labels, tags, or decals. In the event any questions or concerns arise, contact Enerpac or a local Enerpac distributor for clarification.

If you have never been trained on high-pressure hydraulic safety, consult your distributor or service center for a free Enerpac Hydraulic Safety Course.

This manual follows a system of safety alert symbols, signal words and safety messages to warn the user of specific hazards. Failure to comply with these warnings could result in death or serious personal injury, as well as damage to the equipment or other property.



The **Safety Alert Symbol** appears throughout this manual. It is used to alert you to potential physical injury hazards. Pay close attention to Safety Alert Symbols and obey all safety messages that follow this symbol to avoid the possibility of death or serious personal injury.

Safety Alert Symbols are used in conjunction with certain Signal Words that call attention to safety messages or property damage messages and designate a degree or level of hazard seriousness. The Signal Words used in this manual are DANGER, WARNING, CAUTION and NOTICE.

#### **DANGER**

Indicates a hazardous situation that, if not avoided, **will** result in death or serious personal injury.

#### **WARNING**

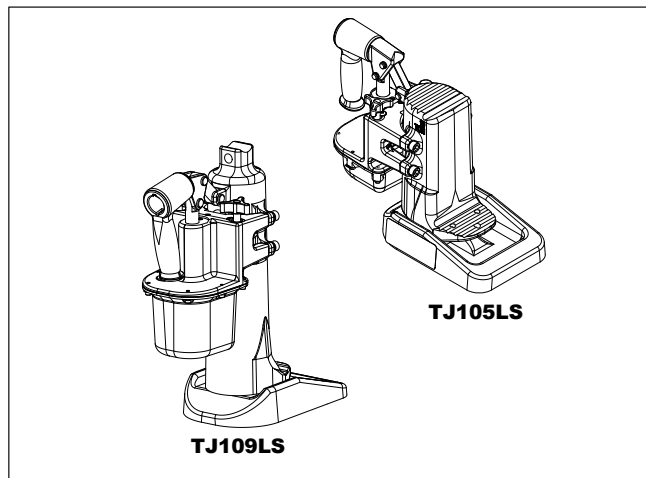
Indicates a hazardous situation that, if not avoided, **could** result in death or serious personal injury.

#### **CAUTION**

Indicates a hazardous situation that, if not avoided, **could** result in minor or moderate personal injury.

#### **NOTICE**

Indicates information considered important, but not hazard related (e.g. messages relating to property damage). Please note that the Safety Alert Symbol will **not** be used with this signal word.



### 1.2 Track Jack Safety Precautions

#### **WARNING**

**Failure to observe and comply with the following precautions could result in death or serious personal injury. Property damage could also occur.**

- Escaping oil under pressure can penetrate the skin. If oil is injected under the skin, see a doctor immediately.
- Always use and wear proper personal protective equipment (PPE) when operating the jack (such as gloves, eye protection, head protection, protective footwear, etc.).
- Never tamper with overload protection devices. The jack's internal safety relief valve must not be repaired or adjusted except by an Enerpac Authorized Service Center. Never remove or disable the safety relief valve.
- Stay clear of loads supported by hydraulics. To avoid personal injury, keep hands and feet away from jack and item being lifted during jack operation.
- Do not use the jack as a load holding device. Never allow persons to get under a load that is supported by the jack. Immediately after the load has been raised or lowered, it always must be blocked mechanically.
- Use only rigid pieces to hold loads. Carefully select steel or wood blocks that are capable of supporting the load. Never use a hydraulic jack as a shim or spacer in any lifting application.
- Never attempt to lift a load weighing more than the rated capacity of the jack.
- Be sure that the load is sufficiently engaged with the lifting toe or lifting cap of the jack. Avoid situations where loads are not correctly positioned on the jack toe or cap. Incorrectly positioned loads (such as when the load on the toe is significantly offset from the center line of the jack cylinder) may cause the load to slip or fall, resulting in potential danger.

- A minimal amount of side loading is permissible. However, to prevent a potentially unstable lifting arrangement and possible damage to jack, avoid any side loading condition that attempts to cause rotation of the jack body. This condition is most likely to occur if the load on the toe is significantly offset from the center line of the jack cylinder.
- Be sure setup is stable before lifting load. Except when used in rail surfacing operations where ballast is present, the jack must be placed on a hard and level surface capable of supporting the load. Do not weld or otherwise modify the jack to attach a base or other support.
- Be aware of external events and acts of nature (wind, storms, flooding, earthquakes or other seismic activity, etc.) that could occur while the jack is in use. Do not use the jack if it is likely that such conditions will occur.
- Read and follow all precaution statements (DANGER, WARNING, CAUTION, etc.) and instructions associated with this product. Do not remove warning tags, labels or decals.

### CAUTION

Failure to observe and comply with the following precautions could result in minor or moderate personal injury. Property damage could also occur.

- Keep the jack away from flames and heat. Excessive heat will soften packings and seals, resulting in fluid leaks. For optimum performance, do not expose equipment to temperatures of 150°F [65°C] or higher. Protect all hydraulic equipment from weld spatter.
- Inspect all jack components before use. Repair any loose, leaking, cracked or damaged components before using the jack.
- Use only the lever bar provided with the jack or an exact replacement.
- Use only the handle-socket to lift or transport the jack.
- Avoid dropping the jack during use and when it is being transported. Rough handling may result in non repairable cracks and may cause the jack to operate improperly.
- Fully retract the jack after use and protect the entire unit from external damage. Keep the jack clean and store it in a clean and dry area.
- Immediately replace worn or damaged parts with genuine Enerpac parts. Enerpac parts are designed to fit properly and to withstand high loads. Non-Enerpac parts may break or cause the jack to malfunction.

### NOTICE

- Hydraulic equipment must only be serviced by a trained and qualified hydraulic technician. For repair service, contact the Enerpac Authorized Service Center in your area.

## 1.3 Crush and Pinch Point Hazard

**WARNING** CRUSH AND PINCH POINT HAZARD! Be certain all personnel are clear of the handle socket linkage before extending the jack. Do not allow persons to reach in this area during jack operation. Serious personal injury can occur if hands, fingers or other body parts are present in this area while handle socket is moved. See Figure 1.

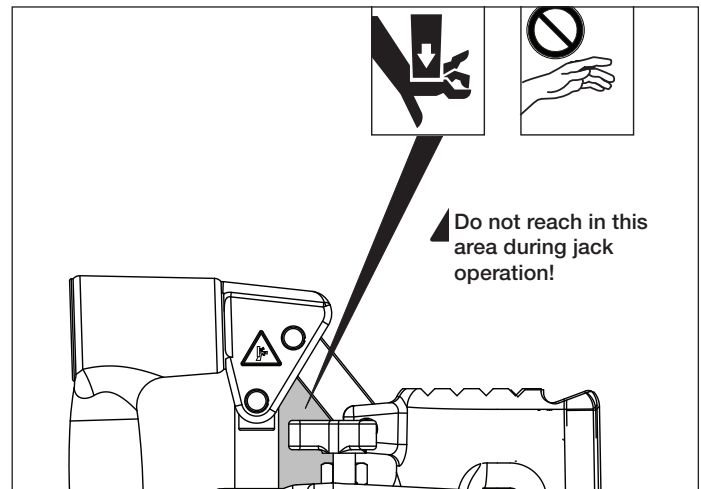


Figure 1, Crush and Pinch Point Hazard

## 1.4 Additional Jacking Safety Precautions

### WARNING

Failure to observe and comply with the following precautions could result in death or serious personal injury. Property damage could also occur.

- Know the weight of what you intend to lift. The lifted weight must not exceed 80 percent of the capacity of the jack.
- Be sure that all persons operating the jack obtain and are familiar with the *American National Standards Institute* rules that apply to hydraulic rams and jacks (ASME ANSI B30.1) or the equivalent standards used in your country or region.
- Never place any part of your body under any load at any time while it is being hydraulically supported by the jack. Always support the load with appropriately rated mechanical blocking devices before allowing persons to work under the load. Refer to Section 6.3 for additional information.
- Be sure to read all instructions carefully. Follow all communicated safety precautions to avoid personal injury or damage to the equipment.

## 2.0 CONFORMANCE TO NATIONAL AND INTERNATIONAL STANDARDS

**CE** Enerpac declares that this product has been tested and conforms to applicable standards and is compatible to all CE Requirements. A copy of an EU Declaration is enclosed with each shipment of this product.

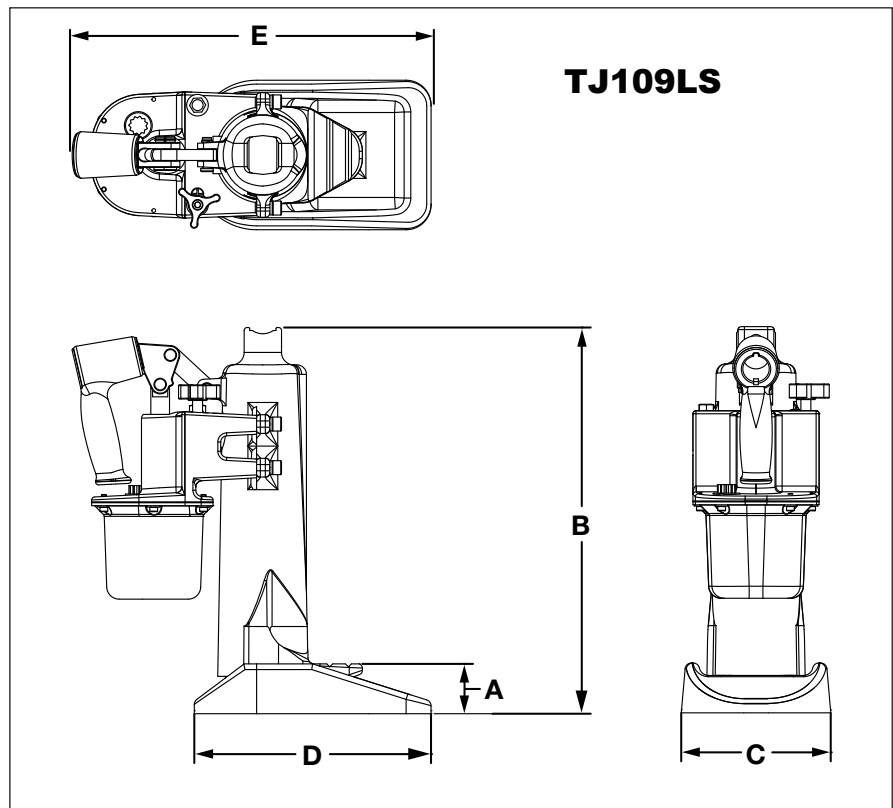
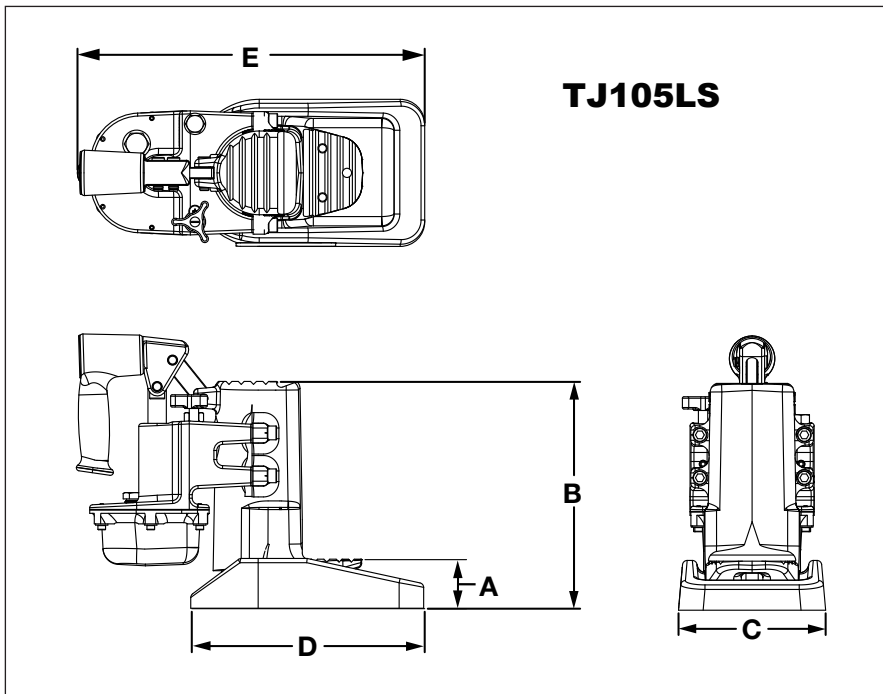
## 3.0 SPECIFICATIONS

Table 1 - Specifications, TJ105LS and TJ109LS

| Model   | Lifting Capacity |    | Weight |      | Max. Handle Effort |      | Usable Oil Capacity |      | Required Oil Type |               |
|---------|------------------|----|--------|------|--------------------|------|---------------------|------|-------------------|---------------|
|         | US Tons          | kN | lb     | kg   | lb                 | kg   | in <sup>3</sup>     | L    | <10°F [-12°C]     | ≥10°F [-12°C] |
| TJ105LS | 10               | 89 | 36     | 16.3 | 90                 | 40.8 | 25                  | 0.40 | Enerpac LX        | Enerpac HF    |
| TJ109LS | 10               | 89 | 41     | 18.6 | 90                 | 40.8 | 50                  | 0.82 | Enerpac LX        | Enerpac HF    |

**NOTICE:** Specifications are subject to change without notice.

## 4.0 EXTERNAL DIMENSIONS



**Table 2 - External Dimensions, TJ105LS and TJ109LS**

| Model          | Stroke |       | Toe Height |      |         |       | Cap Height |       |         |       | Base Area |       |      |       | Depth |     |
|----------------|--------|-------|------------|------|---------|-------|------------|-------|---------|-------|-----------|-------|------|-------|-------|-----|
|                |        |       | A (min)    |      | A (max) |       | B (min)    |       | B (max) |       | C         |       | D    |       | E     |     |
|                | inch   | mm    | inch       | mm   | inch    | mm    | inch       | mm    | inch    | mm    | inch      | mm    | inch | mm    | inch  | mm  |
| <b>TJ105LS</b> | 4.0    | 101.6 | 2.0        | 50.8 | 6.0     | 152.4 | 9.25       | 235.0 | 13.25   | 336.6 | 6.0       | 152.4 | 9.5  | 241.3 | 14.2  | 361 |
| <b>TJ109LS</b> | 9.0    | 228.6 | 2.0        | 50.8 | 11.0    | 279.4 | 15.5       | 393.7 | 24.5    | 622.3 | 6.0       | 152.4 | 9.5  | 241.3 | 14.2  | 361 |

**NOTICE:** Dimensions shown are approximate and subject to change without notice.

## 5.0 PRODUCT DESCRIPTION

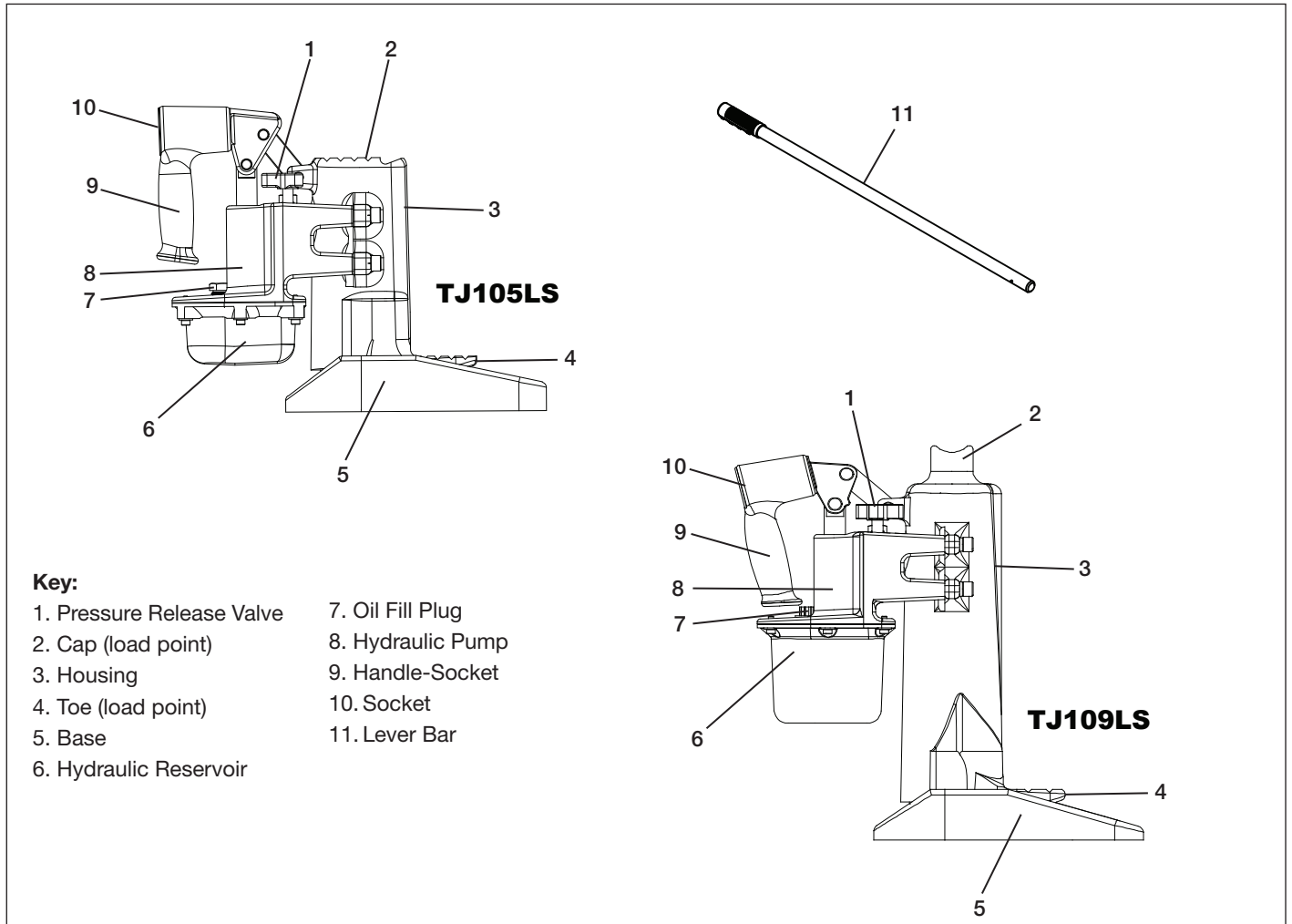
The Enerpac TJ105LS and TJ109LS track jacks are designed for rail maintenance applications such as track surfacing and lifting of rail maintenance vehicles.

Each jack has a 10 Ton [89 kN] rated capacity. The Model TJ105LS features a 4 inch [101.6 mm] stroke. The model TJ109LS features a 9 inch [228.6 mm] stroke. Operation and maintenance procedures for both models are similar.

The jacks are fully self contained and include an integral hydraulic reservoir and hand pump. The bladder style reservoir allows jack operation in any orientation.

Additional product features and benefits:

- Forged base provides additional surface contact area, and a large grooved toe provides stable jacking.
- Load side relief valve provides overload protection from load shifts.
- Spring return for added convenience and ease of operation.
- Inverted hard chrome piston design keeps water and dirt out, extending the life of the jack.
- Low handle effort allows one-man operation for lifting heavy loads.
- Anti-kickback design reduces risk of injury to operator if load is inadvertently released.
- Jack can lift from toe or cap, ideal for spreading and jacking applications.



**Figure 2, Major Features and Components**

## 6.0 SETUP AND OPERATION

### 6.1 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 repair and replacement costs resulting from damage in shipment.

### 6.2 Preparation for Use

Before the first use, fully extend and retract the jack, without placing any load on the jack. This will help ensure that the jack is primed and that oil level is correct.

If the jack fails to fully extend or retract, or if movement is sluggish, fully lower the jack and check the reservoir oil level. If oil level is low, add additional oil as required. Refer to Section 7.1 for procedure.

**CAUTION** Always fully retract the jack before checking oil level or adding additional oil. If oil is added while the jack is extended, the reservoir could become overfilled and burst when the jack is retracted. Minor or moderate personal injury and/or damage to jack could occur.

## 6.3 Operating Precautions

### **WARNING**

Failure to observe the following precautions and instructions could allow load to drop on persons working in the area. Death or serious personal injury could result.

#### Lifting Use

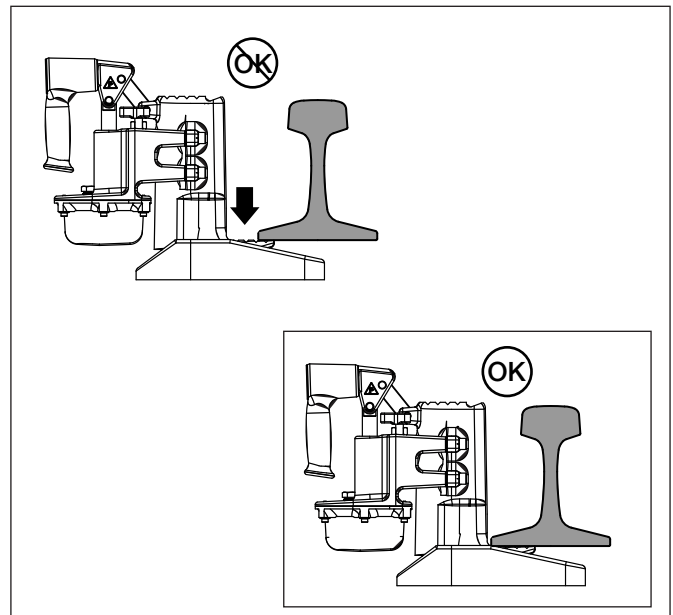
- Keep persons away from area under load during lifting and lowering.
- To prevent the lifted load from dropping, always immediately support it with jack stands or other mechanical blocking devices of adequate rated capacity.
- Be certain that blocking is fully in place before opening the pressure release valve. An unsupported load will drop immediately when the pressure release valve is opened.
- Do not rely on hydraulics to hold lifted loads after the lifting procedure is completed. The jack is not designed as a load holding device.
- Although the jack hydraulic circuit may temporarily hold the load, be aware that the load can drift downward or drop suddenly at any time without warning if it is not mechanically supported.
- Avoid using the jack where it is suspected that load shifting will occur. Load shifting will exert extra forces on the jack, possibly causing the safety relief valve to open. The load may lower or drop if the safety relief valve opens.

#### Rail Surfacing Use

- When using the jack for rail surfacing operations, keep hands and feet clear of the rail section being supported by the jack. Stay clear of areas under the lifted rail where crush or pinch point injuries could occur.
- Rail surfacing operations may require prior removal of ballast to allow proper placement of the jack under the rail. Always remove a sufficient amount of ballast from under the track so that the jack can be placed into engagement under the rail without the use of leverage or striking force. Damage to jack may result if the jack is forced under the rail.
- Whenever possible, fully engage the jack lifting toe with the rail. If full engagement is not possible, ensure that the lifting toe is engaged AT LEAST 50 PERCENT with the rail. Engagement of less than 50 percent may result in instability during lifting, and will cause excessive stress on the jack. Damage to jack could occur. See Fig. 3.
- Be aware that certain events (such as ballast shifting under the track or a heavy vehicle driving over nearby rail sections) may place added forces on the jack. These forces may cause the jack's safety relief valve to open. When the relief valve opens, handle effort will be suddenly reduced, resulting in the possibility of the jack operator falling or slipping.
- If multiple jacks are being used, note that excessive force in one jack may cause that jack's relief valve to open. This will result in immediate added force being applied to the other jacks that are used in the lift.

#### 6.4 To Raise the Jack

1. Place the jack under the item to be lifted.
2. Close the pressure release valve by turning it clockwise, until it is hand tight. DO NOT OVERTIGHTEN! See Fig. 4 for location.



**Figure 3, Proper Toe Engagement**

### **NOTICE**

- Hand tightening of the pressure release valve is sufficient. Never tighten pressure release valve excessively by hand.
  - Never use pliers, or pipe wrenches to tighten the pressure release valve.
  - Over-tightening of the pressure release valve will damage the valve seat and may result in internal leakage and reduced jack service life.
3. Operate the handle-socket by hand until the jack advances toward, and engages with the load. At this point, the handle-socket will become difficult or impossible to move by hand.
  4. Insert the lever bar into the socket and turn it about 1/4 turn clockwise so that it engages.
  5. Using the lever bar, continue operating the handle-socket until the desired amount of lift has been reached.

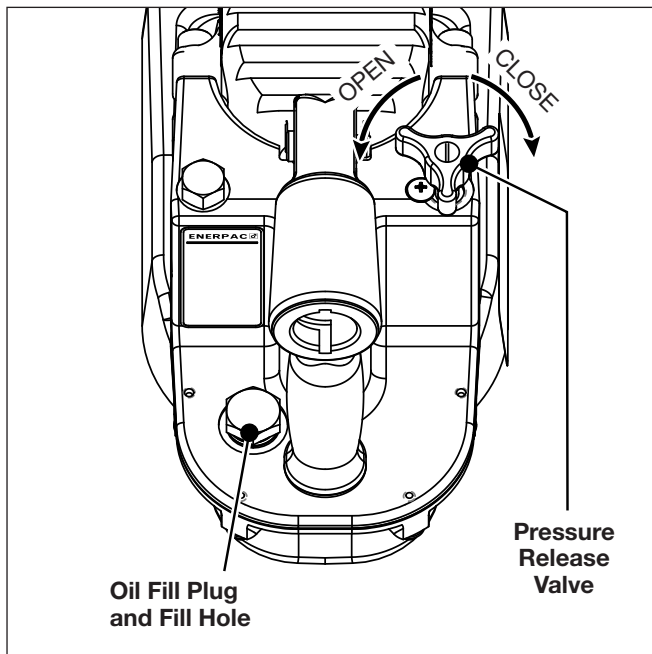
**NOTICE** The jack can be advanced without using the lever bar, but only under a no load or very light load condition. The lever bar provides the additional leverage needed for lifting heavier loads.

#### 6.5 To Lower the Jack

1. Be certain that all personnel are clear of the area under the jack and the lifted object. Warn all personnel that the jack is about to be lowered.
2. Slowly open the pressure release valve by turning the pressure release valve counterclockwise. If desired, the retraction speed can be reduced by opening the pressure release valve only a slight amount.

### **NOTICE**

- Full retraction speed is reached when the pressure release valve is opened about two full turns. The jack can also be lowered in small increments by simply re-closing the pressure release valve at any time during the jack's descent.
- The pressure release valve screw contains a positive stop which prevents the valve from being opened more than approximately two full turns from closed. To prevent possible damage, do not attempt to open the pressure release valve an additional amount after resistance is felt.



**Figure 4, Oil Fill Plug and Pressure Release Valve (Model TJ105LS Shown, TJ109LS Similar)**

3. Allow the jack to fully retract, or to retract to the desired height.
4. Be sure the load is supported by the ground or by appropriately rated mechanical supports.
5. Remove the jack from under the load.

### 6.6 Non-Vertical Operation

If needed, the jack can be used while it is positioned horizontally, or in any other non-vertical orientation.

The hydraulic reservoir is NOT vented and should not leak regardless of the jack's position. If leakage occurs, check tightness of oil fill plug.

Use care when operating the jack in a non-vertical position. Be aware that objects being pushed or separated may be under tremendous force and can spring back to their original positions without warning. This condition could occur if the jack dislodges, if the pressure release valve is opened or if hydraulic leakage occurs.

**⚠ WARNING** Always install appropriate mechanical blocking of sufficient strength before allowing persons to enter the area in between any pushed or separated objects. Never rely on the jack's hydraulic force to keep pushed or separated objects apart while people are working in this area. Failure to observe this precaution could allow persons to become crushed in between the pushed or separated objects, resulting in death or serious personal injury.

When using the jack to spread railroad ties, always remove ballast ahead of the desired direction of movement of the tie. Avoid extreme angles between tie being spread apart as this exerts high side loads on the toe and base of the jack.

### 6.7 Care and Storage

The jack requires minimal protection from rain, dust or mud. However, be sure that the oil fill plug remains tightly closed to prevent entry of these and other contaminants.

If excess mud or dirt has built-up on the jack housing, it is recommended that the jack be wiped-down prior to storage.

Always fully retract the jack before placing it into storage. Store the jack in the vertical position and only in a clean and dry area.

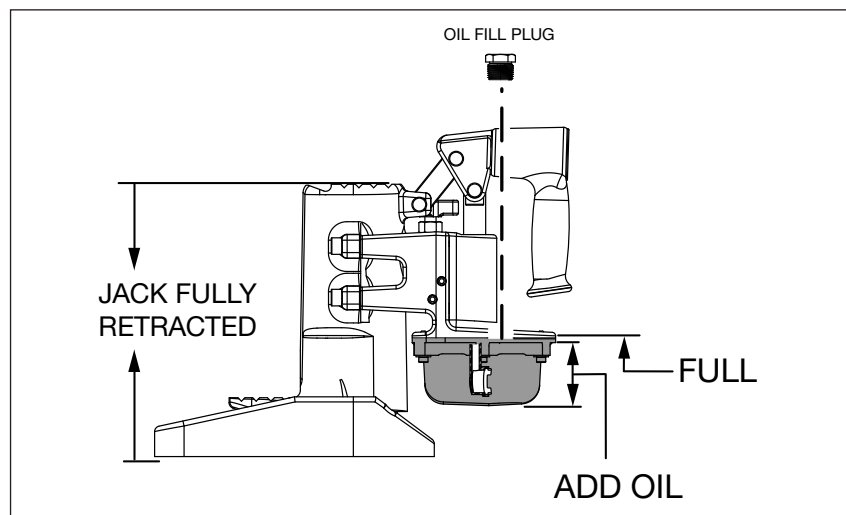
## 7.0 MAINTENANCE

### 7.1 Check Oil Level and Add Oil (if needed)

1. Check that the jack is fully retracted.
2. Be sure that the jack is placed on level ground and is in the vertical position.
3. Remove any dirt or dust from the area around the oil fill plug. Unscrew and remove the oil fill plug. See Fig 4. for location.
4. Check the oil level through the oil fill hole. The oil level should be up to the top of the reservoir, and even with the oil fill hole opening. See Fig. 5.

**⚠ CAUTION** Be certain that the jack is fully retracted before adding any oil to the reservoir. If oil is added while the jack is extended, the reservoir could become overfilled and burst when the jack is retracted. Minor or moderate personal injury and/or damage to jack could occur.

4. If oil level is low, add oil through the fill hole as required. Refer to Table 1 for Enerpac oil specifications. See Section 7.2 for additional information.
5. Reinstall and tighten the oil fill plug.



**Figure 5, Checking Reservoir Oil Level (Model TJ105LS Shown, TJ109LS Similar)**

## 7.2 Oil Specifications

Use only Enerpac HF or LX hydraulic oil in the jack.

Enerpac HF hydraulic oil is recommended for operation at ambient temperatures 10°F [-12°C] and above.

At ambient temperatures below 10°F [-12°C], Enerpac LX hydraulic oil may be used if desired. Enerpac LX will provide lower pumping effort in cold climates.

**⚠ CAUTION** Never use brake fluid or other non-hydraulic fluids in the jack. The jack may not function properly when using these fluids. Erratic operation may result. Minor or moderate personal injury and/or damage to jack could occur.

**NOTICE** Enerpac hydraulic oil is available from your Enerpac distributor. Failure to use Enerpac hydraulic oil may result in reduced performance and will void the Enerpac product warranty.

## 7.3 Changing the Hydraulic Oil

The hydraulic oil should be changed once a year or whenever it is suspected that contaminants have entered the jack hydraulic system.

1. Be sure the jack is fully retracted.
2. Lay the jack on its side. Place a pan or other collection receptacle under the jack to catch the drained oil.

**⚠ CAUTION** Catch all drained oil in a pan or other suitable receptacle. Dispose of used oil in accordance with all applicable laws and regulations.

3. Remove the oil fill plug. See Fig. 4 for location.
4. Allow the oil to drain from the reservoir oil fill hole. During draining take precautions to ensure that no dirt or other contaminants enter the fill hole.
5. After all used oil has drained, look through the oil fill hole and inspect the reservoir for signs of contamination. If the drained oil appears dirty or feels gritty, or if other signs of contamination are present, flush the reservoir with a clean flushing solvent before refilling.

**⚠ CAUTION** When using solvent, completely follow solvent manufacturer's directions and safety precautions.

5. Place the jack on level ground in the vertical position. Be certain that the jack is fully retracted.

**⚠ CAUTION** Be certain that the jack is fully retracted before adding any oil to the reservoir. If oil is added while the jack is extended, the reservoir could become overfilled and burst when the jack is retracted. Minor or moderate personal injury and/or damage to jack could occur.

6. Refill the reservoir with Enerpac hydraulic oil. Refer to Table 1 for Enerpac oil specifications and usable oil capacities. See Section 7.2 for additional information. Continue filling until the oil level is up to the top of the reservoir and even with the oil fill hole.
7. Reinstall and tighten the oil fill plug.
8. Test jack operation as described in steps a through c:
  - a. Be sure that the pressure release valve is closed.
  - b. With NO load on the jack, and without using the lever bar, operate the handle-socket and fully extend the jack.
  - c. Verify that the jack fully extends, and that resistance is felt when the jack reaches the top of its stroke. If the oil level is correct, the handle-socket will become impossible to operate by hand when the jack is fully extended.

9. Open the pressure release valve to retract the jack. Be sure that the jack is fully retracted.
10. Remove the oil fill plug. Recheck the oil level through the oil fill hole. If oil level has dropped, add oil through the fill hole as required.
11. Reinstall and tighten the oil fill plug.

## 7.4 Inspection and Lubrication

Before using the jack:

- Inspect the jack for oil leaks. Repair any oil leaks before placing the jack into service.
- Check the jack mechanical components. Tighten any loose components and replace any bent or damaged components before returning the jack to service.
- Check the jack base and housing for cracks. If any cracks are found, remove the jack from service immediately. Have an Enerpac Authorized Service Center inspect and repair the jack before it is placed back into service.

Every 90 days or when needed:

- Lubricate the three pump linkage pins with a good grade of grease or lubricating oil (SAE 40 weight or greater).

## 8.0 TROUBLESHOOTING

The information in the Troubleshooting Guide (refer to Table 3) is intended as an aid to help diagnose and correct various possible problems that may occur.

For repair service, contact your local Enerpac Authorized Service Center.

### **⚠ WARNING**

**Failure to observe and comply with the following precautions could result in death or serious personal injury. Property damage could also occur.**

- Never loosen or remove jack components while jack hydraulic system is pressurized. Escaping oil under pressure can penetrate the skin, causing serious personal injury. Load will drop suddenly when pressure is relieved.
- Keep hands, fingers and other body parts clear of pinch points and moving parts when observing operation during troubleshooting.
- Remove load from jack before making any repairs or adjustments.
- Allow only trained and qualified hydraulic technicians to troubleshoot, repair and service the jack. It is recommended that the jack be serviced and repaired by an Enerpac Authorized Service Center.

| Table 3 - Troubleshooting Guide              |                                              |                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptom                                      | Possible Cause                               | Solution                                                                                                                                                                                                                                                                                                                                         |
| 1. Jack will not raise.                      | Pressure release valve is not closed.        | Close pressure release valve. Turn clockwise until hand tight.                                                                                                                                                                                                                                                                                   |
|                                              | Pressure release valve not seating properly. | Flush and clean pressure release valve seat. Replace check ball.*                                                                                                                                                                                                                                                                                |
|                                              | Check ball in pump piston housing.           | Remove pump piston assembly. Flush and clean check ball seats. Replace check ball.*                                                                                                                                                                                                                                                              |
|                                              | Seal failure.                                | Replace seals as required.*                                                                                                                                                                                                                                                                                                                      |
| 2. Jack raises, but will not hold the load.  | Pressure release valve not seating properly. | Flush and clean pressure release valve seat and replace check ball.*                                                                                                                                                                                                                                                                             |
|                                              | Safety relief valve setting is too low.      | Have an Enerpac Authorized Service Center check the safety relief valve setting.*                                                                                                                                                                                                                                                                |
|                                              | Seal failure.                                | Replace seals as required.*                                                                                                                                                                                                                                                                                                                      |
| 3. Jack raises, but only halfway.            | Low oil level in reservoir.                  | Add oil. Refer to instructions in Section 7.1.                                                                                                                                                                                                                                                                                                   |
| 4. Jack leaks oil.                           | Oil fill plug loose.                         | Tighten oil fill plug.                                                                                                                                                                                                                                                                                                                           |
|                                              | Reservoir bladder ruptured.                  | Replace reservoir bladder.*                                                                                                                                                                                                                                                                                                                      |
|                                              | Seal failure and/or worn components.         | Replace seals and/or worn components as required.*                                                                                                                                                                                                                                                                                               |
| 5. Jack will not retract or retracts slowly. | Pressure release valve not fully opened.     | Fully open the pressure release valve.                                                                                                                                                                                                                                                                                                           |
|                                              | Air in hydraulic system.                     | Without any load on the jack, completely extend and fully retract the jack. Manually retract the jack if it will not return to the fully retracted position when the release valve is opened. Then, open the oil fill plug to vent any air. Check the oil level. If oil level is low, add oil as required. Refer to instructions in Section 7.1. |
|                                              | Return spring weak or broken.                | Replace the return spring.*                                                                                                                                                                                                                                                                                                                      |

\* Not a user serviceable item. Have service or repair procedure performed by an Enerpac Authorized Service Center or a trained and qualified hydraulic technician.

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