



Operation and Maintenance Manual

Enerpac Toe Jack TJP308

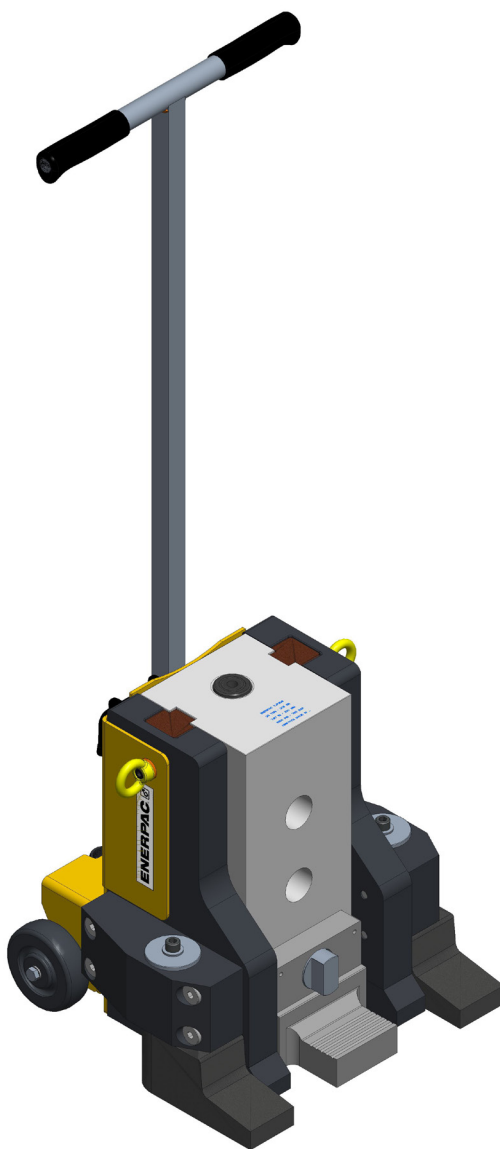
Product Date Code: A

Document Number: L4705

Document Revision: A

Document Revision Date: 11-MAY-2026

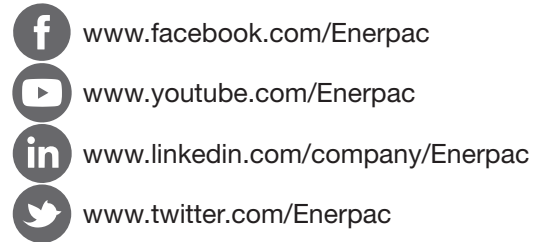
Document Language: ENGLISH EN



To reduce the risk of injury, user must read and understand this document before use.

ABOUT US

Enerpac is a global market leader in high pressure hydraulic tools, controlled force products, portable machining, on-site services and solutions for precise positioning of heavy loads. As a leading innovator with a 100-year legacy, Enerpac has helped move and maintain some of the largest structures on earth. When safety and precision matters, elite professionals in industries such as aerospace, infrastructure, manufacturing, mining, oil & gas and power generation rely on Enerpac for quality tools, services and solutions. For additional information, visit www.enerpac.com.



WARRANTY

Refer to the Enerpac Global Warranty document for terms and conditions of the product warranty. Such warranty information can be found at www.enerpac.com.

NAMEPLATE



AVAILABLE LANGUAGES

L4705 is available in the following languages, visit www.enerpac.com for a copy.

- Weitere Sprachen finden Sie unter www.enerpac.com.
- Para otros idiomas visite www.enerpac.com.
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- Ga voor de overige talen naar www.enerpac.com.
- For alle andre språk henviser vi til www.enerpac.com.
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- Информацию на других языках вы найдете на сайте www.enerpac.com.
- För andra språk, besök www.enerpac.com.
- 如需其他语言, 请前往 www.enerpac.com.

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1. Safety

Read all instructions carefully. Follow all recommended safety precautions to avoid personal injury as well as damage to the product 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 that any questions or concerns arise, contact Enerpac or a local Enerpac distributor for clarification.

Save these instructions for future use.

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

This manual follows a system of safety alert symbols, signals, 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 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 related to property damage). Please note that the Safety Alert Symbol will not be used with the signal word.

1.1 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.

- Read and completely understand the safety precautions and instructions in this manual before operating the pump or preparing it for use. Always follow all safety precautions and instructions, including those that are contained within the procedures of this manual.
- Operating procedures will vary, depending on the system arrangement. Always read, follow, and completely understand all manufacturer's instructions when operating the powerpack and all other devices used with it. Follow all safety precautions contained in the manufacturer's manuals.
- Allow only trained and experienced personnel to supervise and perform procedures.
- Always wear appropriate personal protective equipment (P.P.E.) when operating hydraulic equipment. Be sure to wear eye protection, work gloves and protective clothing. Use of additional P.P.E. safety items such as dust mask, non-skid safety shoes, hard hat, and hearing protection (used as appropriate for the conditions) will reduce the chance of personal injuries. The use of these items may also be required by local regulations or laws.
- Do not handle pressurized hoses. Escaping oil under pressure can penetrate the skin. If oil is injected under the skin, see a doctor immediately.
- Do not pressurize disconnected couplers. Only use hydraulic cylinders in a coupled system. Never use a cylinder with unconnected couplers.
- Do not remove or disable the pump relief valve.
- Ensure all hydraulic components (hoses, fittings, couplers, etc.) are rated to a safe working pressure of 10,150 psi [700 bar].
- Never set a relief valve to a higher pressure than the maximum rated pressure of the pump. If ratings are different, relief valve setting should not exceed the setting of the lowest rated component. Higher settings may result in equipment damage and/or personal injury.
- The system operating pressure must not exceed the pressure rating of the lowest rated component in the system. Install pressure gauges in the system to monitor operating pressure. It is your window to what is happening in the system.

- Only use hydraulic cylinders in a coupled system. Never use a cylinder with unconnected couplers. If the cylinder becomes extremely overloaded, components can fail catastrophically causing severe personal injury.
- Always be certain that hydraulic pressure is fully relieved and that the load is fully removed from the system before disconnecting hydraulic hoses, loosening hydraulic fittings, or performing any disassembly or repair procedures.
- Always perform a visual inspection of the equipment before placing it into operation. If any problems are found, do not use it. Have the equipment repaired and tested by an Enerpac Authorized Service Center before it is returned to service.
- Be sure setup is stable before lifting load. Jacks should be placed on a flat surface that can support the load. If the lifting area does not afford these conditions, use flat base plates and shims to achieve them. Do not weld or otherwise modify the jack to attach a base or other support.
- Serious equipment damage or personal injury may occur if the support feet are not fully extended and properly positioned before lifting a load.
- Avoid situations where loads are not directly centered on the jack. The lifting point of each jack in the system should be fully and properly engaged with the load before raising it. Off-center loads produce considerable strain on jacks. In addition, the load may slip or fall, causing potentially dangerous results.
- Distribute the load evenly across the entire lifting point surface.
- Use only rigid blocking to support loads. Carefully select steel or hardwood blocks that are capable of supporting the load. Never use a hydraulic cylinder as a shim, spacer, or load holding device. Failure to follow these instructions may result in serious personal injury or equipment damage.
- Stay clear of loads supported by hydraulics. A jack is intended for lifting only and must not be used as a load holding device. After the load has been raised or lowered, always mechanically block the load.
- To minimize risk of personal injury keep hands and feet away from the equipment and workpiece during operation.
- Keep hands clear of moving parts and pressurized hoses.
- Hot surfaces inside. Contact may cause burn. Do not touch. Allow to cool before servicing.

⚠ CAUTION

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

- Be careful to avoid damaging hydraulic hoses. Avoid sharp bends and kinks when routing hydraulic hoses. Do not exceed the minimum bend radius specified by the hose manufacturer. Using a bent or kinked hose will cause severe back-pressure. Sharp bends and kinks will internally damage the hose, leading to premature hose failure.
- Do not drop heavy objects on hoses. A sharp impact may cause internal damage to hose wire strands. Applying pressure to a damaged hose may cause it to rupture.
- Do not lift hydraulic equipment by the hoses or couplers. Use only the designated carrying handles or lifting points.
- Keep hydraulic equipment away from flames and heat. Excessive heat will soften packings and seals, resulting in fluid leaks. Heat also weakens hose materials and packings.
- For optimum performance, do not expose hydraulic equipment to temperatures of 150°F [65°C] or higher. Protect all hydraulic equipment from weld spatter.

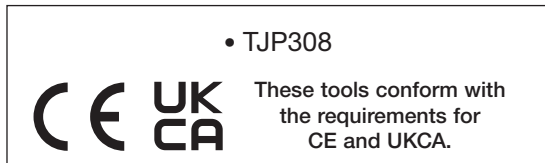
NOTICE

Failure to observe and comply with the following precautions could result in property damage and/or void the product warranty.

- 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 product to malfunction.
- Hydraulic equipment must only be serviced by a qualified hydraulic technician. For repair service, contact the Enerpac Authorized Service Center in your area.
- To help ensure proper operation and best performance, use
- To help ensure proper operation and best performance, use of Enerpac oil is strongly recommended.

2. Compliance Statement(s)

2.1 Conformance to National and International Standards



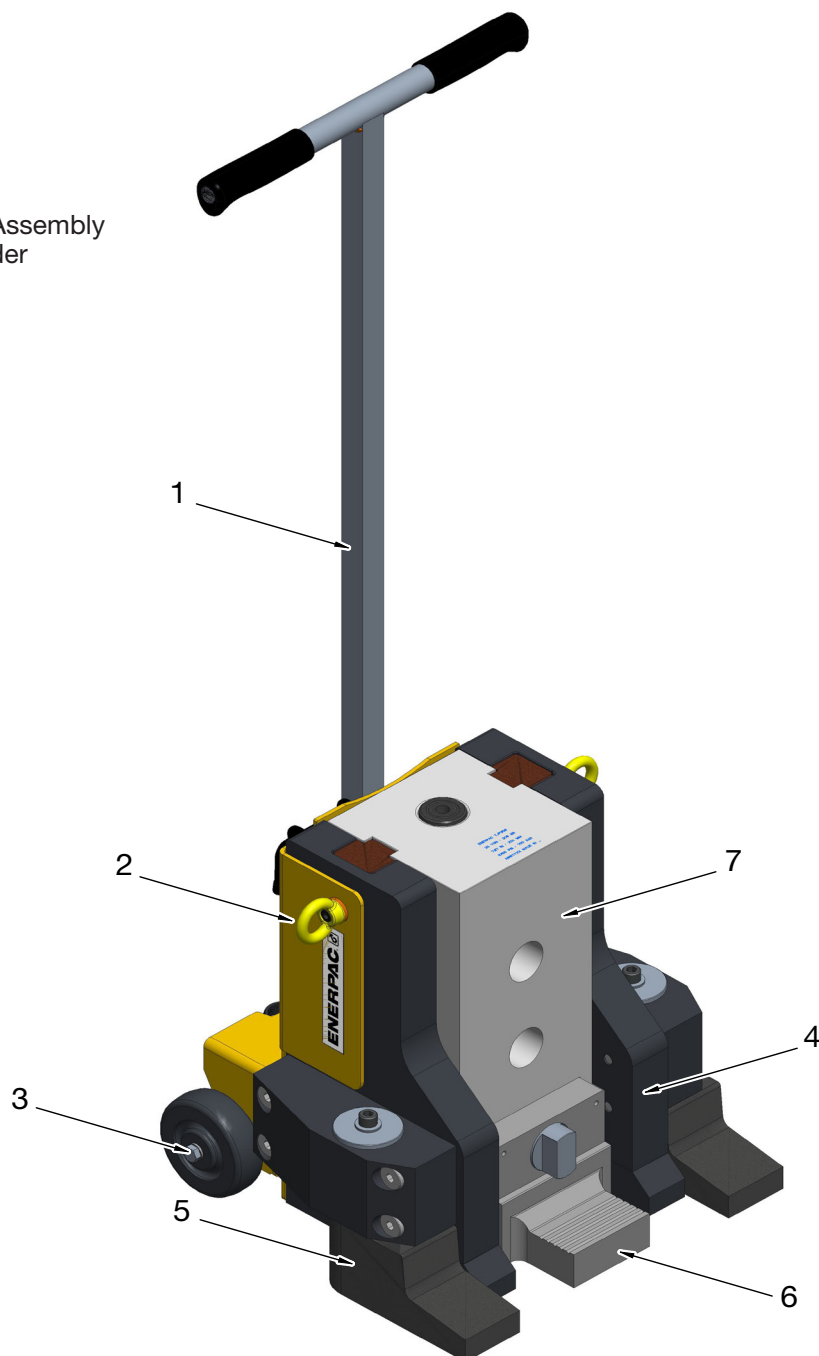
Enerpac declares that the product has been tested and conforms to applicable standards and the product is compatible to all EU and UK Requirements.

Copies of the EU Declaration as well as the UK Self-Declaration are enclosed with each shipment.

3. Features & Components

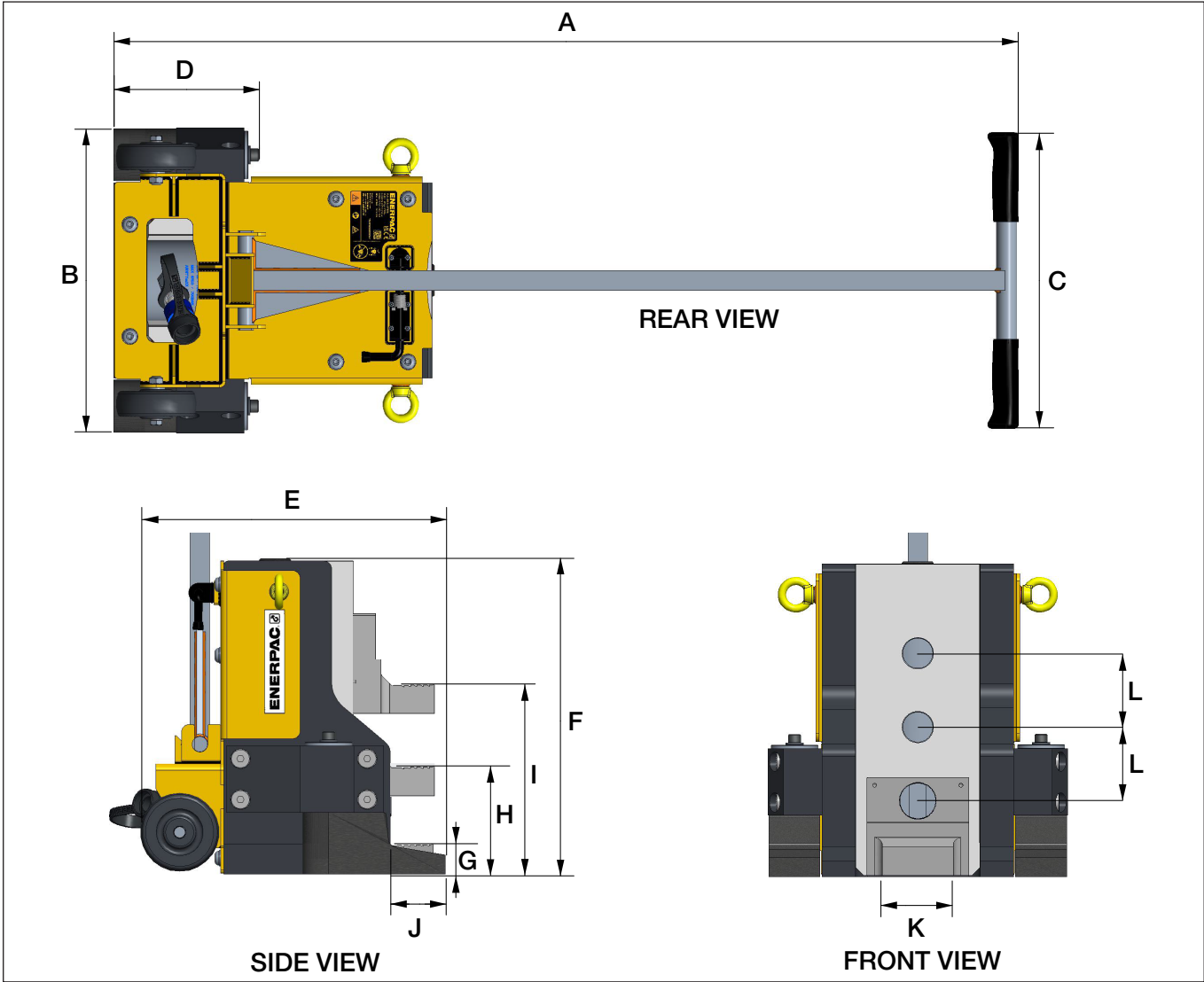
3.1 Feature Diagram

1. Mobility Handle
2. Lifting Eyebolts
3. Wheels
4. Base Assembly
5. Support Legs
6. Lifting Toe
7. Elevation Structure Assembly includes lifting cylinder



4. Technical Product Data

4.1 Dimensional Diagram



4.2 Dimensional Table

	mm	inch
A	1117	44.0
B	382	15.0
C	370	14.6
D	182	7.1
E	388	15.3
F	401	15.8
G	37.4	1.47
H	141.4	5.17
I	225.4	8.87
J	70	2.8
K	90	3.5
L	94	3.7

4.3 Technical Specifications

	Metric	Imperial
Maximum Pressure	700 bar	10150 psi
Maximum Load	309 kN	35 ton
Cylinder Effective Area	44.2 cm ²	6.85 in ²
Toe Position 1 (G)	37.4 mm	1.47 in
Toe Position 2 (H)	131.4 mm	5.17 in
Toe Position 3 (I)	225.4 mm	8.87 in
Stroke	200 mm	7.87 in
Oil Capacity	884 cm ³	54 in ³
Weight	80 kg	176.37 lbs

5. Operation

5.1 Unboxing the toe jack

TJP308 toe jacks are equipped with two lifting eye bolts. Always use both lifting eye bolts to unbox the toe jack or to hoist it.

Lifting straps or chains must be positioned at an angle where they will not interfere with the toe jack base. Use of a spreader bar is recommended. See Figure 3.

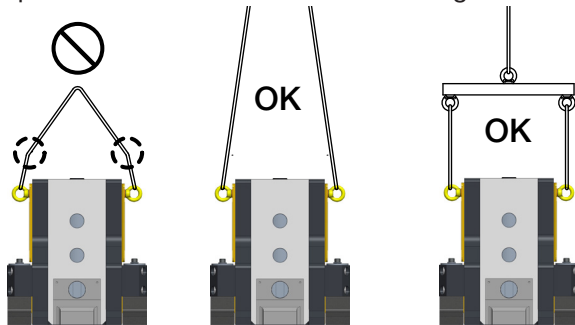


Figure 1: Lifting Arrangements

NOTICE

Carrying handles are available as an optional kit to replace the lifting eyes. Refer to Side Handles Kit - RKTJP308SH in Section 8.2.

5.2 Transporting the toe jack

There are two handle positions that allow safe and precise maneuvering.

Use the handle in vertical position to move the toe jack. Use the handle in inclined position to place the toe jack under load. Unlock the latch pin in the rear side of the toe jack to lower the handle.



Figure 2: Handle positions

Make sure the latch pin is fully locked after moving the handle to the vertical position.

WARNING

Do not lift the toe jack from the handle.

The handle fits in the structure in a specific position. When the handle is removed for storage and then mounted again, make sure to insert the tube in the right position, with the flat face correctly oriented.

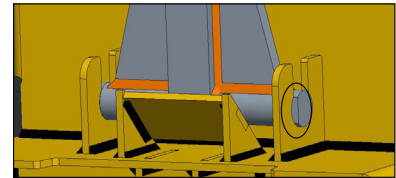


Figure 3: Fitting the handle

5.3 Before lifting a load

CAUTION

Provide adequate support for the base. TJP308 requires a flat and stable lifting surface that is capable of supporting the load without settling. Use of Toe Jacks on surfaces such as sand, mud or dirt may result in loss of load and/or damage to jack.

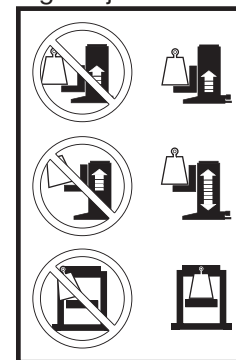


Figure 4: Centering Loads on Lifting Toe

Make sure the load to be lifted is lower than the maximum load allowed depending on the support:

- Maximum load on toe in any position: 25 t [27 ton]

WARNING

When using the toe, make sure the load covers the entire surface of the toe.

- Maximum load on top: 32 t [35 ton]

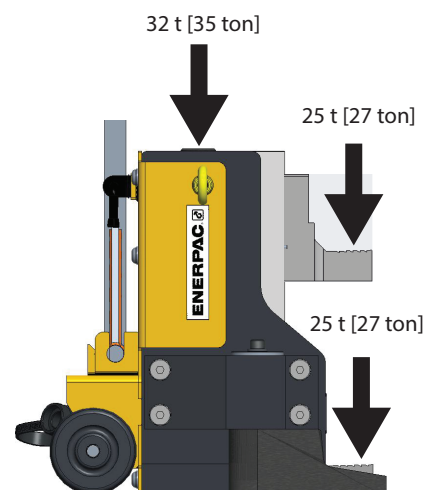


Figure 5: Maximum Load

5.4 Hydraulic pump requirements

Hydraulic pumps are sold separately and are not included with the toe jack.

Whichever type of pump is used, ensure that the pump reservoir can hold enough amount of usable hydraulic oil to fully extend the toe jack (or toe jacks) connected.

The pump must be suitable for the required operation. The pump must be equipped with safety pressure relief valve that opens if the system working pressure exceeds 10150 psi [700 bar].

5.5 Hydraulic oil requirements

Use of Enerpac HF ISO 32 hydraulic oil is recommended. Enerpac HF oil is available at your local Enerpac Distributor or Authorized Service Center:

NOTICE

- Failure to use the correct oil type (high-quality ISO32 hydraulic oil) may result in damage to cylinder hydraulic components and will void the product warranty.
- Be sure that the oil is clean. The oil cleanliness should be maintained to a maximum level of 18/16/13 per the ISO4406 standard. If the oil develops a milky, cloudy or dark appearance, it should be changed immediately
- To avoid overfilling and possible equipment damage, add hydraulic fluid to the pump reservoir only after all cylinder plungers are completely retracted and system pressure is released.
- When using a hand pump to power the cylinder(s), it is permissible to use a high-quality brand of ISO 16 hydraulic oil. The lower oil viscosity will result in reduced pumping effort, especially in cold weather conditions.

5.6 Hydraulic connections

TJP308 utilizes a single acting cylinder for lifting operations. For single-acting cylinders, use a pump with a 2-way valve and one hose.

Be certain that all couplers are fully connected, so that hydraulic flow is not blocked or restricted. All hoses, fittings and other hydraulic components in the circuit must be rated for at least 10150 psi [700 bar] operation. Check for leaks in system and have repaired by qualified personnel.

NOTICE

To decompress the port manually prior to connecting hose, move the manual valve several times in position advance and retract with the motor switched off (manual valves). For solenoid valves press advance/ retract.

5.7 Air removal

Trapped air must be removed from the Toe Jack hydraulic cylinder and hoses before placing the system into operation. If multiple cylinders are to be used, it is recommended that air be removed from each cylinder individually. Refer to the following procedure:

1. Lay the toe jack on the front face. Be sure that there is no load on the elevation structure assembly.
2. Position the hydraulic pump so it is located *higher* than the Toe Jack.
3. Fully advance and retract the cylinder plunger, being careful to avoid pressure build-up at full extension. Repeat this process until cylinder plunger motion is smooth in both directions.
4. Fully retract the cylinder plunger after completing air removal procedures. Check oil level in pump hydraulic reservoir. Add oil if oil level is low.
5. Repeat steps 1 through 4 for all Toe Jacks to be used in the hydraulic circuit.

NOTICE

Follow the pump manufacturer instructions when adding oil to the pump reservoir. To avoid overfilling, be certain that the cylinder plunger is fully retracted before adding any oil.

5.8 Initial Setup

5.8.1 Setting the toe position

There are three positions for the toe:

- Toe Position 1 (lower): 37.4 mm [1.47 in]
- Toe Position 2 (inner): 131.4 mm [5.17 in]
- Toe Position 3 (upper): 225.4 [8.87 in]

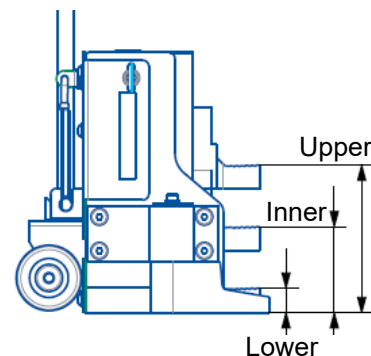


Figure 6: Toe Position Height

To change the toe position, unscrew the pin (Item 1) turning it counterclockwise until the toe (Item 2) is fully released.

Place the toe in the required position and screw the pin hand-tight until there is no significant clearance between the toe and the structure.

Ensure the toe can rotate freely. If the toe does not rotate freely, loosen the pin (Item 1) slightly allowing toe rotation ensuring the toe is as close as possible to the lifting structure.

WARNING

Toe rotation must not be locked. Make sure it rotates after installing it in any position.

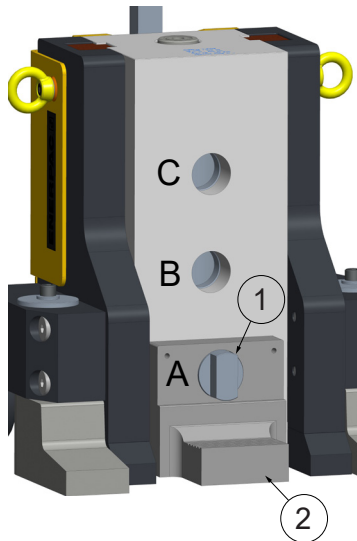


Figure 7: Toe Position

5.8.2 Setting the feet position

The feet can rotate 180° around their axis. They can be rotated by hand, no tool is required. The screw is factory-tightened to 2 Nm.

Both feet must be facing forward if the load is lifted from the toe. The feet might be facing sideways if the load is lifted from the top of the lifting structure.



When the toe is under load, the feet must be facing forward, as indicated on the label. Any operation with the load applied on the toe while the feet are in any other position may result in personal injury.

The feet facing sideways is ONLY permitted to provide stability when the load is lifted from the top.

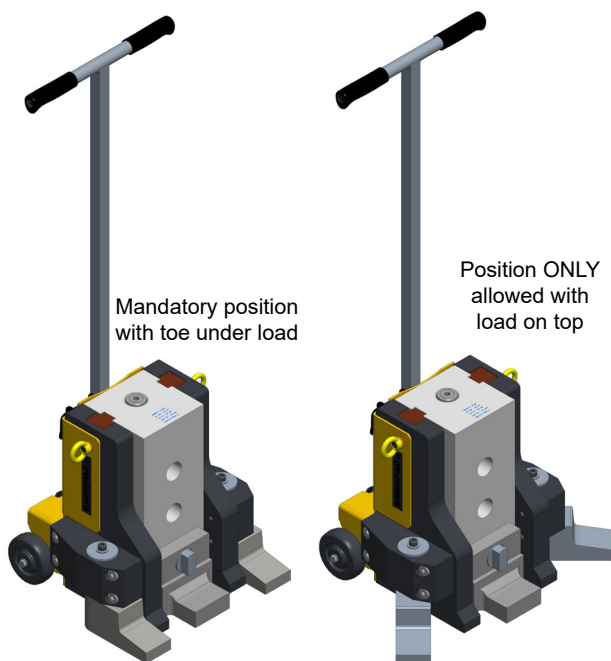


Figure 8: Feet Position

5.9 Operating TJP308

Operation procedures will vary, depending on hydraulic pump type, valve configuration and other factors. For detailed operating instructions and related information, refer to the instruction sheet included with your pump.

If using multiple jacks: without load, verify that all cylinder plungers advance and retract in the same direction when the control valve is shifted. If necessary, relieve pressure and properly reconnect any reversed hydraulic hoses.

NOTICE

It is mandatory that the operator has a full understanding of all instructions, safety precautions and applicable safety regulations before operating any high force hydraulic equipment. If assistance is needed, contact your local Energpac Distributor or Authorized Service Center.

WARNING

To prevent serious personal injury, keep hands, fingers and other body parts clear of working area during cylinder operation.

WARNING

When using the toe, the load must be placed as close as possible to the outer face of the pin. Ensure that the load covers the entire surface of the toe to prevent personal injury and/or property damage.

WARNING

When lifting from the top, the load must be supported by the saddle.

WARNING

Maximum toe tilting angle is 5°. Any operation under load with a toe tilting angle greater than this value could result in personal injury and/or property damage.

To lift: Operate pump and valve so that pressurized oil flow is directed in a controlled rate from the pump reservoir to the jack's cylinder coupler.

To lower: The cylinder plunger will return to its initial position by spring-return. Note that additional hydraulic components may be required to control the rate at which the plunger retracts under load.

6. Relieving trapped pressure

Hydraulic pressure can sometimes become trapped within a hydraulic jack cylinder. This condition can occur in both single and double-acting cylinders but is most likely to happen in a double-acting cylinder that has been exposed to changing ambient temperatures.

A common indication of trapped pressure is when mating hose and cylinder couplers will not engage or are unusually difficult to engage.

If a trapped pressure condition is suspected, always use the Energpac model CT-604 coupler bleed tool (available from your Energpac distributor) to safely relieve any remaining pressure.

⚠ WARNING

Never attempt to relieve trapped hydraulic pressure within the cylinder by loosening a coupler on the cylinder base.

Trapped hydraulic pressure can cause a loosened coupler to dislodge unexpectedly with great force. Serious personal injury or death will result if the coupler becomes a projectile and strikes persons working in the area.

A sudden escape of pressurized hydraulic oil may also occur if a coupler is loosened while trapped hydraulic pressure is present. Serious personal injury or death could result if a high-pressure oil stream penetrates the skin.

Use only the Enerpac CT-604 coupler bleed tool to relieve trapped hydraulic pressure within the cylinder.

⚠ WARNING

Never use a hammer and punch (or other similar method) to unseat a coupler check cone that is under pressure. Serious personal injury or death could result due to the sudden and uncontrolled escape of high-pressure oil. Use only the Enerpac CT-604 coupler bleed tool to relieve trapped pressure within the cylinder.

7. Inspection, maintenance & storage

- Periodically check the hydraulic system looking for loose connections, leaks and other mishaps. Replace any damaged components.
- Monitor oil temperature during operation. Do not exceed temperatures above 140°F [60°C].
- Install dust cap(s) on the couplers after the hydraulic hoses are disconnected from the cylinder.
- Keep all hydraulic components clean.
- Change hydraulic oil at the recommended interval shown in the pump operation manual. Change the oil immediately if it shows signs of contamination.
- Store jack and cylinder in a clean, dry and secure location. Keep stored cylinders and hoses away from heat and direct sunlight.
- Always keep the guidings of the lifting plate greased.
- If repairs are required, refer to the Enerpac website to find the repair parts sheet applicable to each toe jack TJP308.

NOTICE

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

8. Parts List

Product Date Code Beginning With: A

8.1 Main Assembly

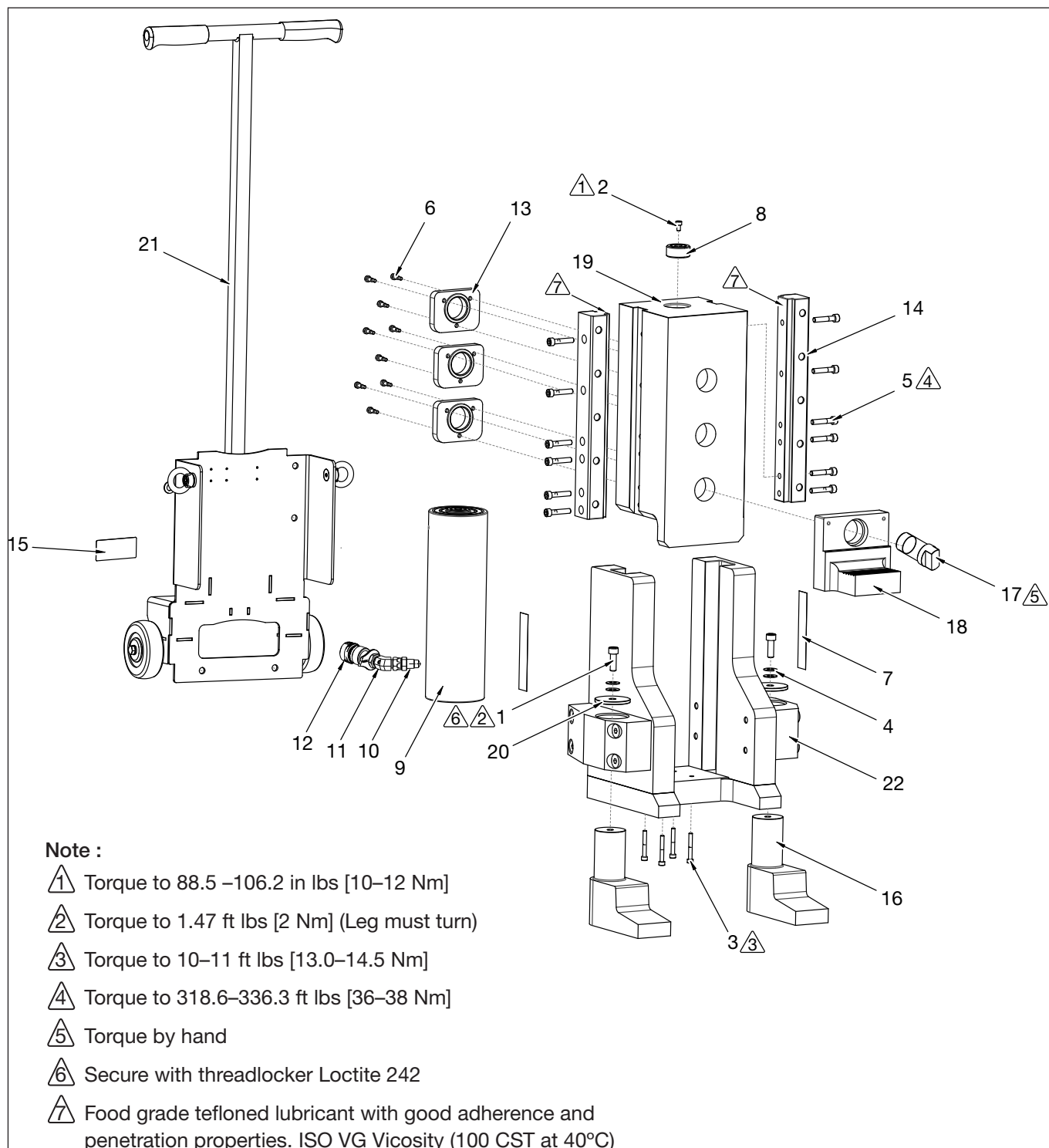


Figure 9: Main Assembly Exploded

Repair Parts List for Main Assembly			
Item	Description	Qty	Part Number
1	M10x30 SHCS Screw	2	◆
2	M6x10 SHCS Screw	1	CBE615028-1A
3	M6x45 SHCS Screw	4	CBE631028-1A
4	Spring Disc	4	◆
5	M8x40 SHCS Screw	12	■
6	M5x12 SHCS Screw	9	●
7	Enerpac Decal 5.19 × 1.00	2	G424026
8	Saddle	1	RAC20045
9	Aluminum Cylinder 30T 200mm stroke	1	RAC308
10	Fitting	1	CU235096
11	Swivel Fitting	1	FZ1660
12	Female Coupler	1	CR400
13	Nut	3	●
14	Bronze Guide	2	■
15	Decal Toe Jack	1	RKTJP308D
16	Support Legs Toe Jack 30 ton	2	◆
17	Pin	1	RKTJP308P
18	Lifting Toe 30 ton	1	RKTJP308T
19	Elevation Structure Assembly Toe Jack 30 ton	1	TJP308101-5
20	Mechanical Plug	2	◆
21	Handle and Wheels Assembly	1	☐ (Refer to Section 8.2)
22	Base Assembly Base Toe	1	Refer to Section 8.3
■ Item included in and available only as part of Bronze Guides Kit - RKTJP308B (includes 4 screws) ◆ Item included in and available only as part of Leg Kit - RKTJP308L (includes parts for 1 leg replacement) ● Item included in and available only as part of Nut Kit - RKTJP308N (includes parts for 1 nut replacement) ☐ Item included in and available only as part of Sheet Metal Kit - RKTJP308S			

8.2 Handle and Wheels Assembly

Note :

- ① Torque to 7.37-8.85 ft lbs [10-12 Nm]
- ② Torque to 22.1-29.5 ft lbs [30-40 Nm]
- ③ Secure with threadlocker Loctite 242
- ④ Apply oil wax

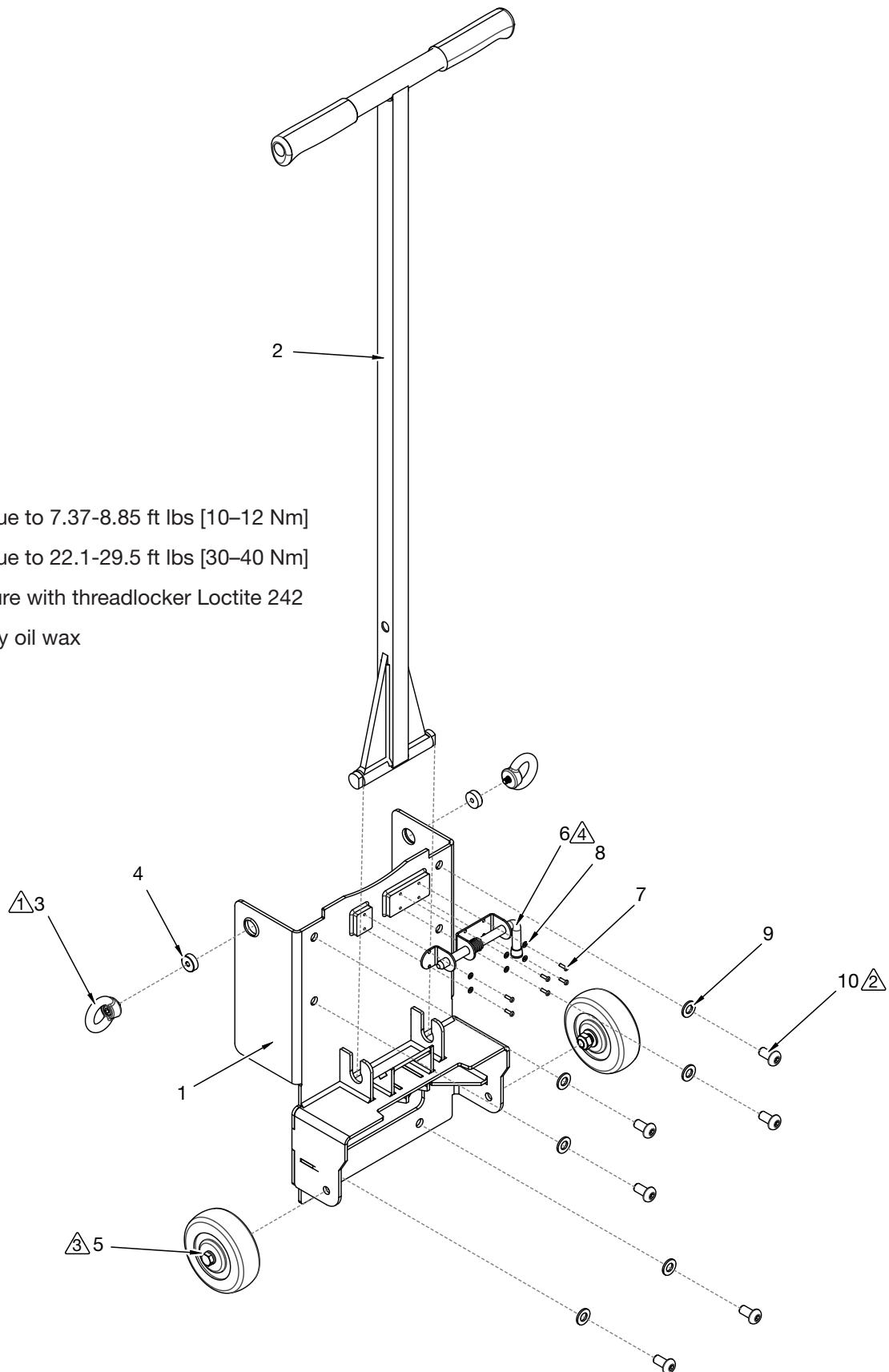


Figure 10: Handle and Wheels Assembly Exploded

Repair Parts List for Handle and Wheels Assembly			
Item	Description	Qty	Part Number
1	Plate Base	1	N/A
2	Handle	1	RKTJP308H
3	M6 Eyebolt	2	DB8099667 ❖
4	Shaft Diameter 20	2	TJP106104
5	Gear Assembly	2	RKTJP308W
6	Latch Pin Assembly	1	◆
7	M3x0.5 BHCS Screw	6	◆
8	Washer	6	◆
9	Washer	6	CAE1100108-1A
10	M10x1.5 BHCS Screw	6	CBA1021028-1E
❖ Optional replacement: carry handles available in Side Handles Kit - CHM6			
◆ Item included in and available only as part of Latch Pin Kit - RKTJP308LP			

8.3 Base Assembly

Note :

- ① Torque to 110.63 ft lbs [150 Nm]
- ② Torque to 37.3-44.2 ft lbs [51-60 Nm]
- ③ Secure with threadlocker Loctite 242
- ④ Torque to 73.7 ft lbs [100 Nm]

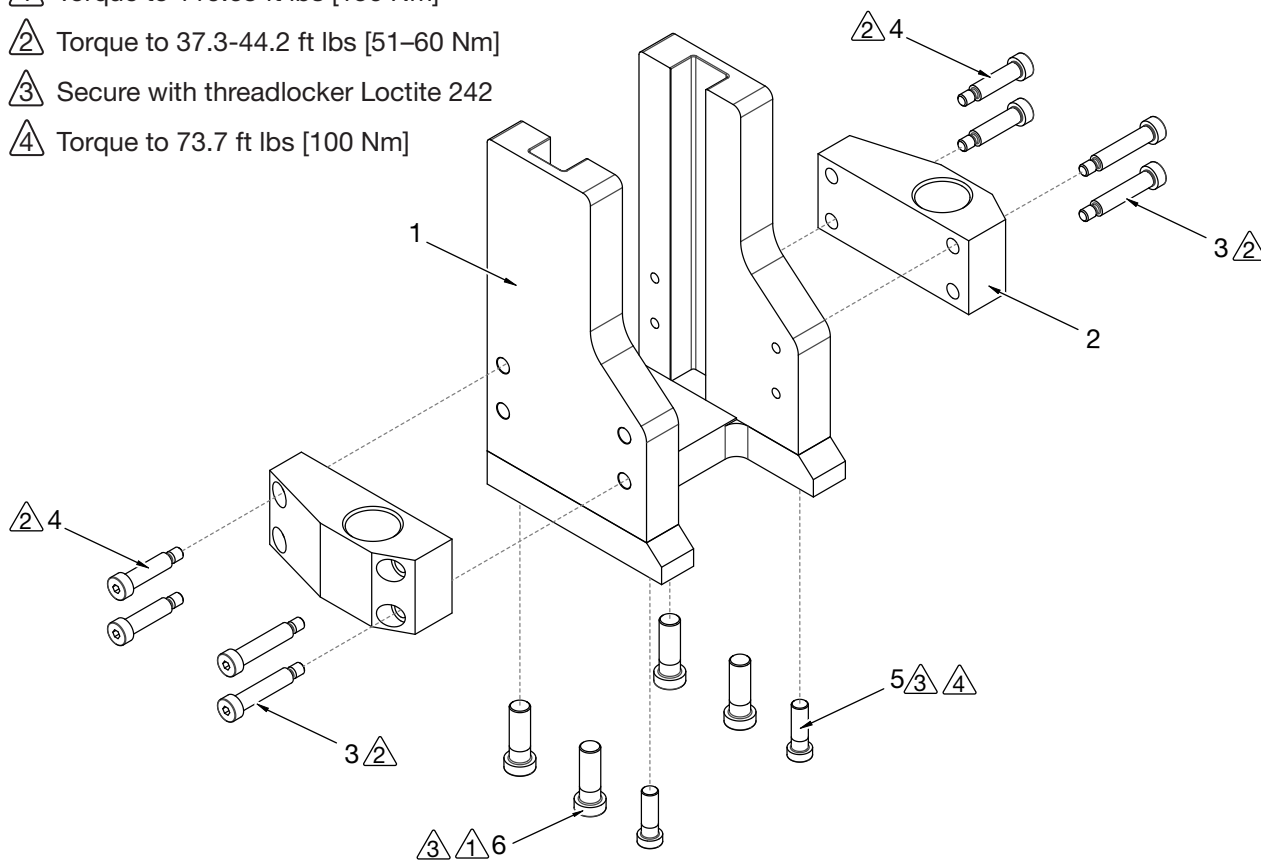


Figure 11: Base Assembly Exploded

Repair Parts List for Base Assembly			
Item	Description	Qty	Part Number
1	Base	1	N/A
2	Leg Support	2	TJP308101-4
3	M12x70 SHC Screw	4	DB9594028
4	M12x55 SHC Screw	4	DB9593028
5	M16x2 LHCS Screw	2	CBA1633028-1D
6	M20x2.5 LHCS Screw	4	CBA2034028-1D

9. Troubleshooting

Refer to the troubleshooting guide when diagnosing jack cylinder operational problems. Please note that the troubleshooting guide is not all-inclusive and should only be considered as an aid to help diagnose the most common possible problems. For repair service, contact your nearest Enerpac Authorized Service Center. As required, also refer to the troubleshooting information provided with your hydraulic pump or power unit.

Troubleshooting Guide		
Symptom	Possible Cause	Solution
Cylinder does not advance, advances slowly or in spurts.	a. Oil level in pump reservoir is low.	a. Add oil to pump.
	b. Release valve open.	b. Close pump release valve.
	c. Loose hydraulic coupler.	c. Check that all couplers are fully tightened.
	d. Air trapped in system.	d. Remove air (see paragraph 4.3).
	e. Cylinder plunger binding.	e. Check for damage to cylinder. Have cylinder serviced by an authorized Enerpac service center.
Cylinder advances, but does not hold pressure.	a. Leaking oil connection.	a. Check that all connections are tightened.
	b. Leaking seals.	b. Locate leak(s) and have equipment serviced by an Enerpac service center.
	c. Internal leakage in pump.	c. Have pump serviced by an authorized Enerpac service center.
Cylinder does not retract, retracts part way or retracts more slowly than normal.	a. Release valve closed.	a. Open pump release valve.
	b. Pump reservoir overfilled.	b. Drain oil level to full mark.
	c. Loose hydraulic coupler.	c. Check that coupler(s) are fully tightened.
	d. Air trapped in system.	d. Remove air (see section 5.4.1).
	e. Oil flow to cylinder blocked.	e. Check that coupler(s) are correctly connected, fully tightened and valving is functioning properly.
Toe cannot be installed in another position	a. Pin cannot be threaded.	a. Keep regular maintenance. Clean the pin and nuts threads. Replace parts if needed.

