

## SPECIFICATIONS

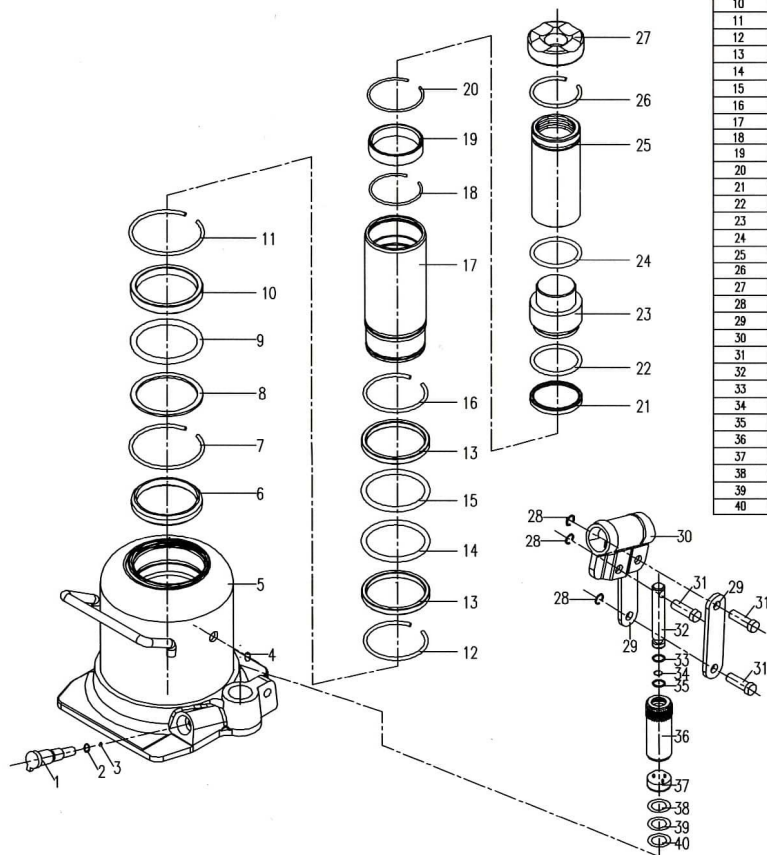
ITEM #	CAPACITY	LOWERED HEIGHT	MAXIMUM HEIGHT
TH810002	20,000 lbs	128 mm	223 mm

# OWNER'S MANUAL

INSTRUCTIONS FOR USE

### PARTS LIST

PARTS NO.	DESCRIPTION	QTY
01	Release valve	1
02	1/2"-RING	1
03	Steel ball	1
04	STEM	1
05	PARTS OF BASE	1
06	RING OF LIMIT	1
07	STEEL WIRE CIRCLE	1
08	GASKET	1
09	1/2"-RING	1
10	RING OF PISTON UM	1
11	STEEL WIRE CIRCLE	1
12	STEEL WIRE CIRCLE	1
13	PISTON RING	2
14	1/2"-RING	1
15	NYLON RING	1
16	STEEL WIRE CIRCLE	1
17	PISTON UM	1
18	STEEL WIRE CIRCLE	1
19	BLOCK RING	1
20	STEEL WIRE CIRCLE	1
21	BOWL OF WAT	1
22	NYLON RING	1
23	PISTON HEAD	1
24	GASKET	1
25	PISTON POLE	1
26	STEEL WIRE CIRCLE	1
27	TOP NUT	1
28	STEEL WIRE CIRCLE	3
29	POLE	3
30	Handle bracket	1
31	PN	3
32	PUMP CORE	1
33	BUSSPROOF RING	1
34	STEEL WIRE CIRCLE	1
35	1/2"-RING	1
36	pump housing	1
37	PARTS OF SAFETY VALVE	1
38	GASKET	1
39	NYLON RING	1
40	NYLON RING	1



**20,000 LB. CAPACITY**  
**Min. Height: 128mm**  
**Lifting. Height: 95mm**  
**Max. Height: 223mm**

## HYDRAULIC BOTTLE JACK



## Rated Capacity (Safe Working Load)

**20,000 LB.**

## Min. Height:

**128 mm**

## Lifting Height:

**95 mm**

## Max. Height:

**223 mm**

## OPERATIONS

The owner and/or operator is responsible for providing maintenance, maintaining all decals or warning labels and while in use, maintaining the unit in good work order. If the owner and/or operator is not fluent in English or Spanish, the product warnings and instructions shall be read and discussed with the operator in the operator's native language by the purchaser/owner or his designee. Make sure that the operator comprehends its contents. Safety information shall be emphasized and understood prior to usage. The jack shall be inspected per the instruction manual prior to use.

It is the owner and/or operators responsibility to study all WARNINGS, operating, and maintenance instructions contained on the product label and instruction manual prior to operation of this unit. The owner/operators shall retain product instructions for future reference.

### 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 jack points and position the jack beneath 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. Do not attempt to put jack stand simultaneously under both ends of vehicle or under one side of vehicle.
7. Turn release valve SLOWLY counterclockwise to lower load onto jack stands.

### 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.

## INSPECTION

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

1. Before use, a visual inspection shall be made for abnormal conditions such as cracked welds, damage, bent, worn, loose or missing parts.
2. Inspections shall be performed in accordance with this manual.
3. The product shall be inspected immediately if it is believed to have been subjected to abnormal load or shock. Owners and / or Operators should be aware that repair of this product may require specialized equipment and knowledge. (see item #4 in maintenance)

## 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 cause extremely rapid jerks, damaging the internal components. The following steps are designed to keep the jack maintained and operational.

1. Lubricate the ram, linkages, saddle and pump mechanism with light oil.
2. Visually inspect for cracked welds, bent, loose, missing parts or hydraulic oil leaks.
3. The product shall be inspected immediately if it is believed to have been subjected to abnormal load or shock.
4. Any hydraulic jack found damaged in any way, is found to be worn or operates abnormally shall be removed from service until repaired by an authorized customer service representative.
5. Clean all surfaces and maintain all labels and warnings.
6. Check and maintain the ram oil level.
7. Check the ram every three months for any sign of rust or corrosion. Clean as needed and wipe with an oil cloth. When not in use, always leave the saddle and ram all the way down.

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

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

## CHECK OIL LEVEL

1. Turn release valve counterclockwise to allow ram to fully retract. It may be necessary to apply force to the saddle for lowering.
2. Remove the inspection plate.
3. With the jack in the level position, remove the oil fill plug. Stand jack in vertical position with handle socket down. The oil should be level with the bottom of fill hole. If not, top off. Do not overfill. Always fill with new, clean hydraulic jack oil.
4. Replace fill plug and inspection plate.
5. Check jack operation.
6. Purge air from system as required.

## TROUBLE SHOOTING

### 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 ram 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 ram 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 assume air is evacuated totally.

## TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE	ACTION
Jack will not lift to full height	Low oil level	Check oil level
Jack will not hold load	Release valve not closing Hydraulic jack oil contaminated Pump valves not sealing Cylinder ram binding	Call customer service
Lift arm will not lower	Cylinder ram binding Parts worn Internal damage Broken return spring or unhooked Lift arm linkage bent or binding	Call customer service
Jack feels spongy when lifting	See Air Purge section	See Air Purge procedure

## FACTORY SERVICE

Any hydraulic jack found damaged in any way, is found to be worn or operates abnormally, shall be removed from service until repaired by an authorized customer service representative. Owners and / or Operators should be aware that repair of this product may require specialized equipment and knowledge. Only factory authorized parts, labels, decals shall be used on this equipment. Call customer service department. Annual inspection of the jack is recommended and shall be made by the manufacturers or suppliers authorized repair facility to ensure that your jack is in optimum condition and that the jack has the correct decals and safety labels specified by the manufacturer.

## WARNING!

- Read-Study and understand all warning and operating instructions prior to use.
- DO NOT OVERLOAD this jack beyond its rated capacity.
- This jack is a lifting device only.
- This jack is designed for use on hard level surfaces only.
- The load must be supported immediately by other appropriate means.
- Lift only on areas of the vehicle as specified by the manufacturer.
- Only Attachments and/or adapters supplied by the manufacturer shall be used.
- No alterations to the jack shall be made.
- Failure to heed these warnings may result in damage to jack and/or failure resulting in personal injury or property damage.
- Inspect before each use.