

TCE ATH810002U-1

TCE ATH810002U-1 Torin 10-Ton Double Ram Low Profile Bottle Jack User Manual

Model: ATH810002U-1

INTRODUCTION

This manual provides essential instructions for the safe operation, maintenance, and troubleshooting of your TCE ATH810002U-1 Torin 10-Ton Double Ram Low Profile Bottle Jack. Please read and understand all instructions and warnings before using this product. Proper use and maintenance will ensure optimal performance and extend the lifespan of your jack.



Image: The TCE ATH810002U-1 Torin 10-Ton Double Ram Low Profile Bottle Jack, shown with its handle components.

SAFETY INFORMATION

WARNING: Failure to heed these warnings may result in personal injury and/or property damage.

- Always read and understand the entire manual before operating the jack.
- Do not exceed the rated capacity of 10 tons (20,000 lbs).
- Use the jack only on a hard, level surface.
- Always use jack stands to support the load immediately after lifting. Do not rely solely on the jack to support the load.
- Ensure the load is centered on the jack saddle.
- Do not work under a lifted load unless it is properly supported by jack stands.
- Keep hands and feet clear of the jack and the load during lifting and lowering.
- Wear appropriate personal protective equipment (PPE) such as safety glasses and gloves.
- Never modify the jack or use it for purposes other than its intended use.
- Inspect the jack before each use for any signs of damage, leaks, or wear. Do not use a damaged jack.
- Lower the load slowly and in a controlled manner.

PRODUCT FEATURES

The TCE ATH810002U-1 bottle jack incorporates several design elements for enhanced performance and durability:

- **Double Ram Design:** Provides extended lift travel, allowing for both a lower retracted height and a higher extended height.
- **Ultra Low Profile:** Retracted height of 4.92 inches, suitable for vehicles with low ground clearance.
- **Anti-Skid Saddle:** A serrated, heat-treated saddle ensures a secure grip on the load.
- **Upgraded Piston:** Designed for reliable and efficient lifting.
- **Durable Construction:** Engineered with drop-forged alloyed steel and robotic welding for quality and durability. Features powder coating for resistance to moisture and chemicals.
- **Special Hydraulic Oil:** Functions normally in temperatures from -13°F to 140°F, offering thermal stability and abrasion resistance.

UNIQUE FEATURES

Push the Limits of the Possible



**Well Polished
Double Ram**



**Anti-Skid
Saddle**



**Upgraded
Piston**

Image: Detailed view highlighting the well-polished double ram, anti-skid saddle, and upgraded piston components of the jack.

LINE OF PRODUCT

Specification Comparison






					
Model #	ATH80202XU	ATH80402XU	ATH80802XU	ATH81002XU	ATH810002U
Capacity	2 Ton	4 Ton	8 Ton	10 Ton	10 Ton
Weight	5.7 Lbs	7.4 Lbs	10.4 Lbs	16.8 Lbs	17.0 Lbs
Min. Height	6.69 In.	6.69 In.	6.69 In.	7.20 In.	4.94 In.
Max. Height	14.96 In.	16.54 In.	16.93 In.	16.85 In.	8.88 In.

Image: Visual representation of the manufacturing quality, including robotic welding, powder coating, heavy-duty steel construction, and the ergonomic design for easy lifting.

SETUP

- Unpacking:** Carefully remove the jack and all components from the packaging. Inspect for any shipping damage.
- Handle Assembly:** Insert the handle sections together to form the complete operating handle.
- Purging Air (Bleeding):** Before first use, or if the jack has been stored for a long time, it may be necessary to purge air from the hydraulic system.
 - Turn the release valve counter-clockwise one full turn to open it.
 - Pump the handle 5-6 full strokes.
 - Turn the release valve clockwise to close it.
 - The jack should now operate smoothly. If not, repeat the process.
- Placement:** Position the jack on a firm, level surface directly under the lifting point of the load as specified by the load manufacturer.

OPERATING INSTRUCTIONS

Lifting the Load:

1. Ensure the jack is on a hard, level surface and the load is stable.
2. Close the release valve firmly by turning it clockwise until tight. Do not overtighten.
3. Insert the handle into the pump socket.
4. Pump the handle up and down to raise the jack saddle until it makes contact with the lifting point of the load.
5. Continue pumping the handle to lift the load to the desired height.
6. Immediately after lifting, place appropriately rated jack stands under the load at designated support points.
7. Slowly lower the load onto the jack stands by gently turning the release valve counter-clockwise.

Lowering the Load:

1. Ensure the area around the load is clear.
2. If the load is on jack stands, slightly raise the load off the jack stands using the jack.
3. Remove the jack stands.
4. Slowly and carefully turn the release valve counter-clockwise to lower the load. Control the lowering speed by adjusting how much you open the valve.
5. Once the load is fully lowered, remove the jack.

MAINTENANCE

Regular maintenance is crucial for the safe and efficient operation of your hydraulic jack.

- **Lubrication:** Periodically lubricate moving parts with light machine oil.
- **Hydraulic Oil Level:** Check the hydraulic oil level every three months.
 - With the jack fully lowered, remove the oil filler plug.
 - The oil level should be just below the filler hole.
 - If low, add high-quality hydraulic jack oil (e.g., ISO VG 15 or equivalent) until the correct level is reached. Do not overfill.
 - Replace the filler plug.
- **Cleaning:** Keep the jack clean and free of dirt, grease, and corrosive materials.
- **Storage:** Store the jack in a fully lowered position in a dry, protected area.
- **Inspection:** Before each use, inspect for cracks, bends, leaks, or any other damage. Do not use if damaged.

SPECIAL HYDRULIC OIL

Operating Temperature Range



140 °F



-13 °F



Thermal Stable



Abrasion Resistant



Biodegradable

Image: Illustration detailing the operating temperature range of the special hydraulic oil used in the jack, from -13°F to 140°F, highlighting its thermal stability and abrasion resistance.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Jack will not lift load.	Release valve open; Air in system; Low hydraulic oil; Overload.	Close release valve; Purge air (bleed system); Add hydraulic oil; Reduce load (do not exceed capacity).
Jack lifts slowly or erratically.	Air in system; Low hydraulic oil; Worn seals.	Purge air (bleed system); Add hydraulic oil; Contact customer support for seal replacement.
Jack leaks fluid.	Loose fittings; Damaged seals.	Tighten fittings; Contact customer support for seal replacement.
Jack will not lower.	Release valve stuck; Mechanical obstruction.	Gently tap release valve; Check for obstructions; Contact customer support.

SPECIFICATIONS

Feature	Detail
Model Number	ATH810002U-1
Brand	TCE
Capacity	10 Tons (20,000 LBs)
Minimum Height (Retracted)	4.92 inches
Maximum Height (Extended)	8.46 inches
Material	Carbon Steel
Operating Temperature Range	-13°F to 140°F
Product Dimensions (L x W x H)	16.51 x 16.51 x 12.5 cm
Item Weight	4.85 kg
Vehicle Service Type	Car

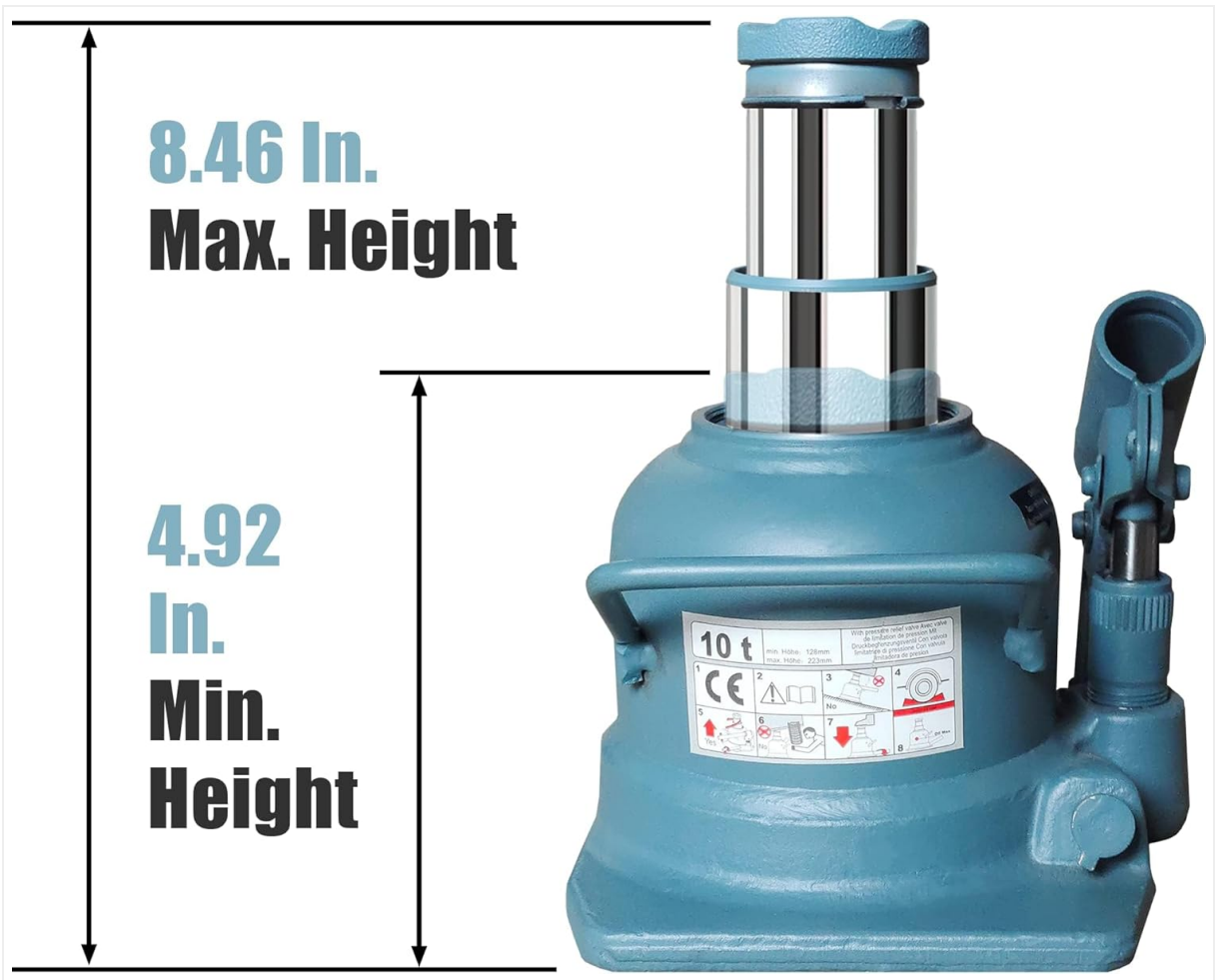


Image: Visual representation of the jack's minimum retracted height (4.92 inches) and maximum extended height (8.46 inches).

WARRANTY AND SUPPORT

This TCE ATH810002U-1 Torin Bottle Jack comes with a **2-year limited manufacturer warranty**. For

warranty claims, technical support, or to inquire about replacement parts, please contact TCE customer service. Keep your purchase receipt as proof of purchase.

For further assistance, please refer to the official TCE website or contact their customer support channels.