

BIG RED T820014S

BIG RED T820014S Torin Hydraulic Trolley Service/Floor Jack User Manual

Model: T820014S | Brand: BIG RED

1. IMPORTANT SAFETY INFORMATION

Always read and understand all instructions and warnings before using this product. Failure to follow these instructions may result in property damage, serious injury, or death.

- **Capacity:** Do not exceed the rated capacity of 1.5 tons (3,000 lbs). This jack is ideal for most cars but not recommended for SUVs and trucks due to lifting height limitations.
- **Stable Surface:** Always use the jack on a hard, level surface capable of supporting the load. Avoid uneven or soft ground.
- **Use Jack Stands:** After lifting the vehicle to the desired height, always support the vehicle with appropriately rated jack stands before performing any work underneath. The jack is designed for lifting only, not for sustained support.
- **Safety Bypass System:** This jack is equipped with a safety bypass system to prevent overloading. Do not attempt to bypass or modify this system.
- **Daily Inspection:** Before each use, perform a daily inspection to ensure all components are in proper working order. Check for any signs of damage, leaks, or loose parts.
- **Clear Area:** Ensure the area around the vehicle is clear of obstructions and personnel before lifting or lowering.
- **Proper Placement:** Position the jack only on the vehicle manufacturer's recommended lifting points. Refer to your vehicle's owner's manual for specific jack points.

2. WHAT'S IN THE BOX

Upon opening your BIG RED T820014S package, you should find the following components:

- Floor Jack (Main Unit)
- Handle (Two-piece assembly)
- Plastic Blow Mold Carrying Case
- User Manual (This document)



Image: The BIG RED T820014S Hydraulic Trolley Service/Floor Jack neatly stored within its durable plastic blow mold carrying case.

3. SETUP AND INITIAL PREPARATION

1. **Handle Assembly:** Insert the two-piece handle into the handle socket on the jack. Ensure it is securely seated.
2. **Bleeding the Hydraulic System:** Before first use, it is crucial to bleed any air from the hydraulic system to ensure proper operation and full lifting capacity. To do this:
 - Turn the release valve counter-clockwise to fully open it.
 - Pump the handle 10-15 full strokes.
 - Turn the release valve clockwise to close it.
 - The jack should now be ready for use. If it does not lift properly, repeat the bleeding process.



Image: The BIG RED T820014S jack with its two-piece handle detached, ready for assembly or storage.



Image: A close-up view of the oil plug and release valve, essential for bleeding the hydraulic system and controlling the jack's descent.

4. OPERATING INSTRUCTIONS

4.1 Lifting the Vehicle

1. **Prepare the Vehicle:** Park the vehicle on a hard, level surface. Engage the parking brake and place wheel chocks on the wheels that will remain on the ground.
2. **Position the Jack:** Locate the vehicle manufacturer's recommended lifting point. Slide the jack under the vehicle, ensuring the saddle is centered on the lifting point.
3. **Lift the Vehicle:** Turn the release valve clockwise to close it. Pump the handle up and down to raise the vehicle. Continue pumping until the vehicle is lifted to the desired height.
4. **Install Jack Stands:** Immediately place appropriately rated jack stands under the vehicle's designated

support points. Slowly lower the vehicle onto the jack stands by gradually turning the release valve counter-clockwise. Once the vehicle is securely resting on the jack stands, remove the floor jack.



Image: A detailed view of the jack's saddle, designed to securely cradle the vehicle's lifting point during operation.



Image: The BIG RED T820014S jack positioned under a vehicle, demonstrating its lifting mechanism in action.

4.2 Lowering the Vehicle

1. **Prepare for Lowering:** Ensure the area around the vehicle is clear. If jack stands were used, slightly raise the vehicle with the floor jack to remove the jack stands.
2. **Lower the Vehicle:** Slowly turn the release valve counter-clockwise to gradually lower the vehicle. Do not open the valve too quickly, as this can cause the vehicle to drop rapidly.
3. **Remove Jack:** Once the vehicle is fully lowered and resting on its wheels, remove the floor jack.

4.3 Instructional Videos

Video: Introduction to the use of a small horizontal jack with Torin plastic box. This video demonstrates the basic operation and features of the jack.

Video: BIG RED T820014S Hydraulic Trolley Service/Floor Jack 2.5Ton. A visual overview of the jack's design and functionality.

Video: How to use a floor jack the proper way. This video provides a step-by-step guide on correctly and safely operating a floor jack.

Video: Heavy Duty Car Jack! (Super Durable and Reliable). This video offers a walk-around of the jack, showcasing its features and operation.

Video: Facts - BIG RED Hydraulic Service Floor Jack and Jack Stands. This video highlights key facts and usage tips for the hydraulic floor jack and accompanying jack stands.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your hydraulic floor jack.

- **Check Hydraulic Fluid:** Periodically check the hydraulic fluid level. If the jack is not lifting to its full height or feels spongy, the fluid level may be low or air may be present in the system. Refer to the bleeding instructions in Section 3.2.
- **Inspect for Leaks:** Regularly inspect the jack for any signs of hydraulic fluid leaks. Leaks can indicate damaged seals or fittings and should be addressed immediately by a qualified technician.
- **Clean and Lubricate:** Keep the jack clean and free of dirt, grease, and debris. Lubricate moving parts and pivot points with light machine oil as needed.
- **Storage:** Store the jack in its carrying case in a dry, clean area. When storing for extended periods, ensure the ram is fully retracted to prevent corrosion.

6. TROUBLESHOOTING

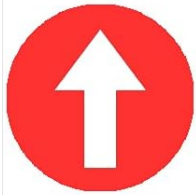
If you encounter issues with your BIG RED T820014S jack, refer to the following common troubleshooting steps:

- **Jack Does Not Lift or Lifts Slowly:**
 - Ensure the release valve is fully closed.
 - Bleed the hydraulic system as described in Section 3.2 to remove any trapped air.
 - Check the hydraulic fluid level and refill if necessary.
- **Jack Lowers Under Load:**
 - Verify the release valve is fully closed and not leaking.
 - Inspect for external hydraulic fluid leaks. If leaks are present, discontinue use and seek professional repair.
 - Do not use the jack if it cannot hold a load.
- **Difficulty with Oil Plug:** Some users have reported the rubber oil plug being difficult to remove or reinsert. Use caution and appropriate tools (e.g., a flat screwdriver with care) to avoid damaging the plug.

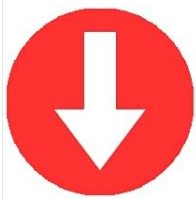
7. SPECIFICATIONS

Load Capacity	1.5 tons (3,000 lb)
Minimum Lifting Height	5-5/16 inches

Maximum Lifting Height	13 inches
Item Dimensions (L x W x H)	19 x 11 x 11 inches
Item Weight	18 pounds
Model Number	T820014S
UPC	615268820248



**13 in.
Max. Height**



**5-5/16 in.
Min. Height**



Image: A visual representation of the jack's minimum (5-5/16 inches) and maximum (13 inches) lifting heights.

8. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the documentation included with your product at the time of purchase. For additional support or to download a PDF version of this user manual, please visit the official BIG RED website or refer to the provided user manual link:

[Download User Manual \(PDF\)](#)

