Torin TH91204X

Torin Hydraulic Welded Bottle Jack 12 Ton (Model TH91204X) User Manual

Model: TH91204X | Capacity: 12 Ton (24,000 LBs)

1. Introduction

This manual provides essential information for the safe and effective operation and maintenance of your Torin Hydraulic Welded Bottle Jack, Model TH91204X. This hydraulic bottle jack is designed for residential and commercial use, offering a robust lifting capacity of 12 Ton (24,000 lbs.). Its welded construction ensures durability and dependability for various lifting tasks.

Key features include:

- Lifting range of 8.94" to 17.99" for versatile applications.
- Adjustable screw top extension with a heat-treated screw for precise low pickup height adjustment and maximum lift.
- Serrated, heat-treated saddle for a large lifting area and secure grip.
- Wide, rugged base for enhanced stability and strength.
- Reinforced critical stress points for extended life beyond 5000 lifting cycles.

Figure 1: Torin Hydraulic Welded Bottle Jack 12 Ton (Model TH91204X) in yellow, showcasing its robust design and pump handle.

2. Safety Information

Always prioritize safety when operating hydraulic lifting equipment. Failure to follow these instructions may result in personal injury or property damage.

- **Read the Manual:** Understand all operating instructions and warnings before use.
- **Rated Capacity:** Never exceed the jack's rated capacity of 12 tons (24,000 lbs.).
- **Stable Surface:** Always use the jack on a hard, level surface. Soft or uneven surfaces can cause the jack to shift or tip.
- **Center Load:** Position the jack saddle directly under the load's lifting point. Off-center loads can cause instability.
- **Support the Load:** Once the load is lifted, immediately support it with appropriate jack stands. Do not rely solely on the hydraulic jack to hold the load.
- **Clear Area:** Ensure the area around the jack and load is clear of personnel and obstructions during lifting and

lowering.

- **Personal Protective Equipment:** Wear appropriate safety gear, such as gloves and eye protection.
- **Inspect Before Use:** Check the jack for any signs of damage, leaks, or wear before each use. Do not use a damaged jack.
- **Avoid Modifications:** Do not modify the jack or use it for purposes other than its intended design.

3. Product Features

The Torin Hydraulic Welded Bottle Jack TH91204X incorporates several design elements for enhanced performance and safety:

- **Adjustable Screw Top:** Allows for fine-tuning of the lifting height to match various vehicle or load requirements.
- **Serrated Saddle:** Provides a secure contact point with the load, reducing the risk of slippage.
- **Welded Construction:** Ensures a reliable structure with consistent welds, minimizing the risk of oil leakage and enhancing overall durability.
- **Safety Bypass Valve:** Prevents over-extension of the hydraulic ram, protecting the jack from damage.

Figure 2: Illustration of the jack's unique features, including the Safety Bypass Valve, Adjustable Screw Top, and Leak-Free Welded

Cylinder.

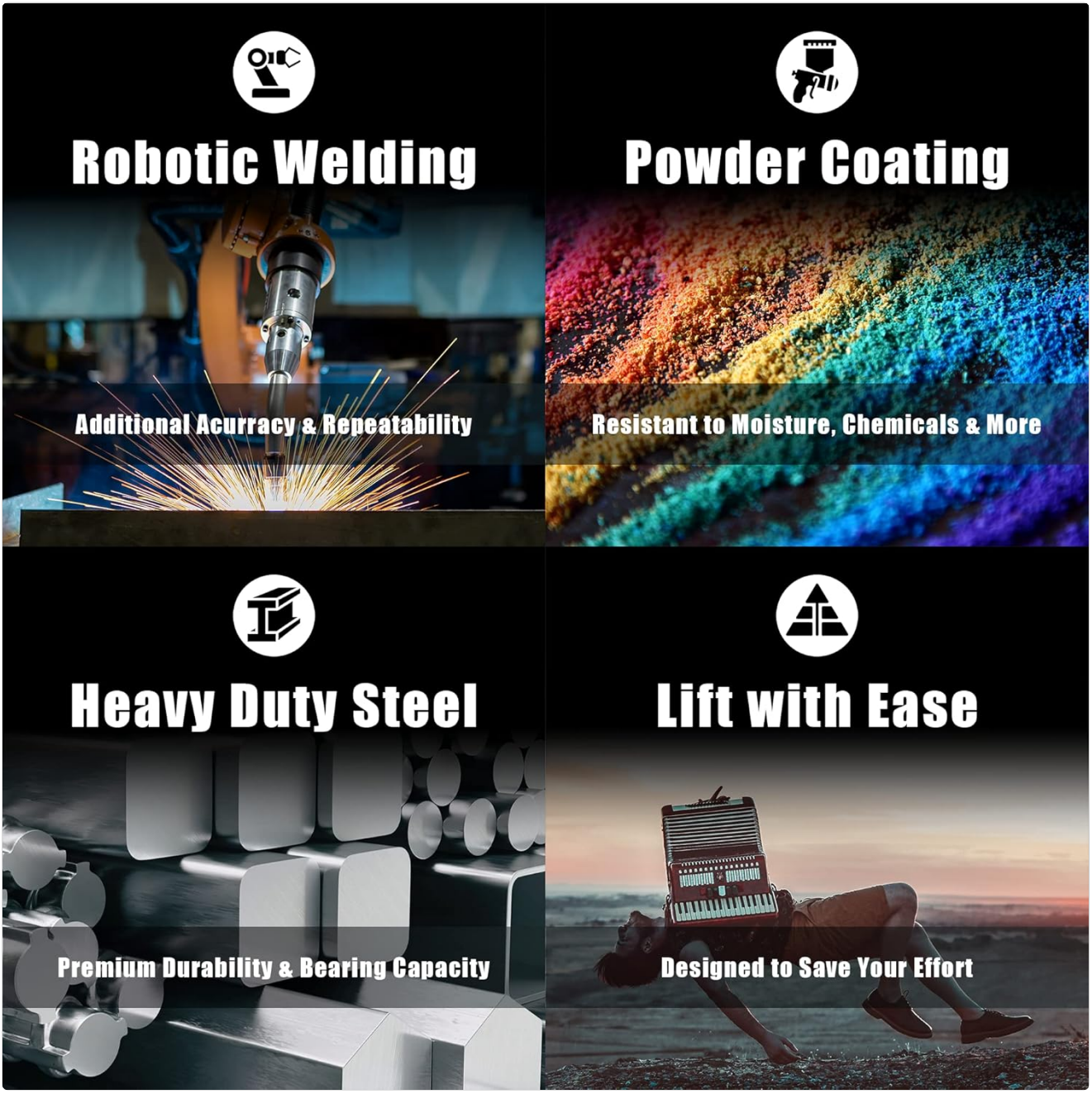

Figure 3: Visual representation of manufacturing processes and material quality, highlighting Robotic Welding, Powder Coating, Heavy Duty Steel, and ease of lifting.

4. Setup

Before using the jack, ensure it is placed on a firm, level surface. The package includes the bottle jack and its pump handle. No assembly is required for the main jack unit, but the handle needs to be assembled for operation.

- **Unpack:** Remove the bottle jack and handle components from the packaging.
- **Assemble Handle:** The pump handle typically consists of two interlocking pieces. Slide the smaller handle piece into the larger piece until it is securely connected.
- **Initial Check:** Before first use, ensure the release valve is fully closed by turning it clockwise. Pump the handle a few times to ensure the ram extends smoothly. If the ram does not extend, check the hydraulic fluid level (refer to Maintenance section).

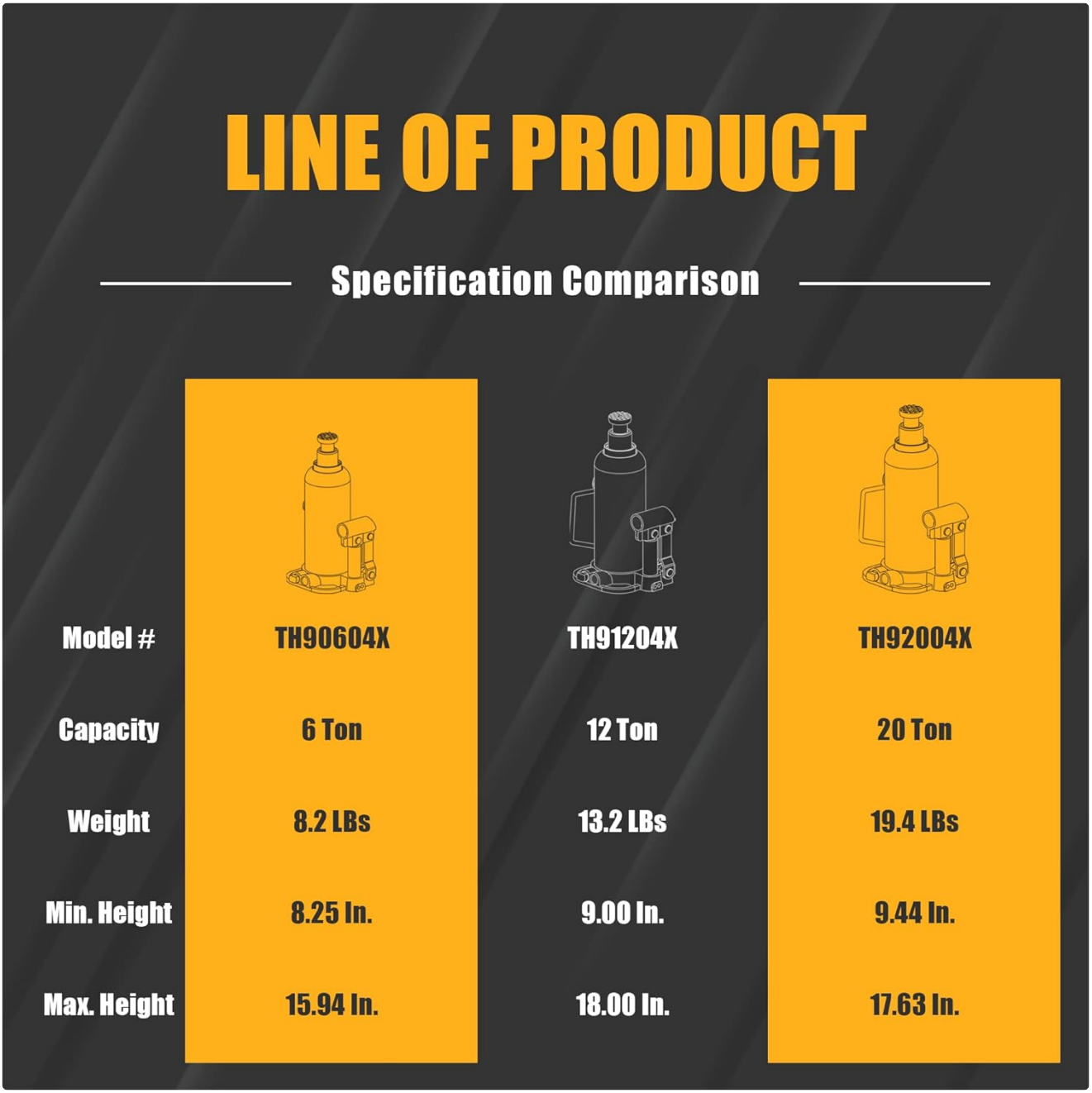

Figure 4: Product line comparison, illustrating various models and their specifications, including the TH91204X.

5. Operating Instructions

Follow these steps for safe and effective operation of your hydraulic bottle jack:

5.1. Lifting a Load

1. **Prepare the Work Area:** Ensure the vehicle or load is on a hard, level surface. Engage the parking brake if applicable and block wheels that are not being lifted.
2. **Position the Jack:** Place the jack directly under the vehicle manufacturer's recommended lifting point. Ensure the saddle is centered on the lifting point.
3. **Close Release Valve:** Insert the slotted end of the pump handle into the release valve. Turn the handle clockwise until the valve is firmly closed. Do not overtighten.
4. **Adjust Screw Top (if needed):** If additional height is required to reach the lifting point, rotate the adjustable screw top counter-clockwise to extend it to the desired height.
5. **Pump the Handle:** Insert the pump handle into the handle socket. Pump the handle steadily to raise the jack. Continue pumping until the load reaches the desired height.

6. **Secure the Load:** Immediately place appropriately rated jack stands under the load at the manufacturer's recommended support points. Slowly lower the load onto the jack stands (see 5.2. Lowering a Load).

5.2. Lowering a Load

1. **Raise Slightly:** If the load is resting on jack stands, slightly raise the load with the hydraulic jack to clear the jack stands.
2. **Remove Jack Stands:** Carefully remove the jack stands from under the load.
3. **Open Release Valve:** Firmly grasp the pump handle. Slowly turn the release valve counter-clockwise to gradually lower the load. Do not open the valve too quickly, as this can cause the load to drop rapidly.
4. **Retract Ram:** Once the load is fully lowered and all weight is removed from the jack, manually push down on the saddle to fully retract the piston.

Video 1: This video demonstrates the basic setup and operation of a Torin Hydraulic Bottle Jack, including how to prepare the jack, lift a load, and safely lower it. It highlights the process of engaging the release valve and pumping the handle.

6. Maintenance

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

- **Hydraulic Fluid:** Check the hydraulic fluid level periodically. To do this, ensure the ram is fully retracted and the jack is on a level surface. Remove the oil filler plug and add high-quality hydraulic jack oil if needed, ensuring the fluid level is just below the filler hole. Do not overfill.
- **Cleaning:** Keep the jack clean and free of dirt, grease, and debris. Wipe down the ram and other moving parts after each use.
- **Lubrication:** Lightly lubricate moving parts, such as the pump mechanism and pivot points, with general-purpose grease or oil.
- **Storage:** Store the jack in a clean, dry place with the ram fully retracted.
- **Air Bleeding:** If the jack's performance is inconsistent (e.g., spongy feel, incomplete lift), it may need to be bled. With the ram fully retracted and the release valve open, remove the oil filler plug. Pump the handle several times to expel any trapped air. Close the filler plug and release valve, then test the jack.

Figure 5: Information on the recommended hydraulic oil, highlighting its thermal stability, abrasion resistance, and biodegradable properties, suitable for operating temperatures between -13°F and 140°F.

7. Troubleshooting

Below are common issues and their potential solutions:

Problem	Possible Cause	Solution
Jack will not lift load.	Release valve open; Low hydraulic fluid; Air in system; Overload.	Close release valve; Add hydraulic fluid; Bleed air from system; Reduce load.
Jack lifts slowly or erratically.	Low hydraulic fluid; Air in system; Dirty fluid.	Add hydraulic fluid; Bleed air from system; Replace hydraulic fluid.
Jack leaks fluid.	Loose fittings; Damaged seals.	Tighten fittings; Contact customer support for seal replacement.

Problem	Possible Cause	Solution
Jack will not hold load.	Release valve not fully closed; Internal seal damage.	Ensure release valve is fully closed; Contact customer support for repair.

8. Specifications

Specification	Detail
Brand	Torin
Model Number	TH91204X
Load Capacity	12 Ton (24,000 LBs)
Minimum Lifting Height	8.94 Inches
Maximum Lifting Height	17.99 Inches
Item Dimensions (L x W x H)	5.3 x 4.53 x 9 inches
Item Weight	12.96 pounds
Material	Alloy Steel
Color	Yellow
Automotive Fit Type	Universal Fit
Vehicle Service Type	Car, Sport Utility Vehicle, Truck
UPC	615268912011

Figure 6: Detailed dimensions of the bottle jack, illustrating its minimum height (9 inches), maximum height (18 inches), and the adjustable screw top extension.

9. Warranty and Support

For warranty information, technical support, or to order replacement parts, please refer to the official documentation included with your product or visit the manufacturer's website. Keep your purchase receipt as proof of purchase for warranty claims.

What's in the Box:

- Bottle Jack
- Handles
- User Manual (this document)