## Torin AT91203BB

# Torin 12 Ton (24,000 LBs) Hydraulic Welded Bottle Jack AT91203BB

**Instruction Manual**

For Model: AT91203BB

## 1. Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Torin 12 Ton (24,000 LBs) Hydraulic Welded Bottle Jack, model AT91203BB. This hydraulic bottle jack is designed for lifting applications in residential and commercial settings, suitable for various vehicles and equipment within its rated capacity.

The jack features a robust, industrial welded construction from drop-forged alloyed steel, ensuring durability and leak-free performance. It incorporates a high-quality, glide-action pressure pump for efficient lifting and includes an integrated oil-bypass and overload valve for system protection.


Figure 1: Torin 12 Ton Hydraulic Welded Bottle Jack AT91203BB. This image displays the main product, a black hydraulic bottle jack with its handle components.

## 2. Safety Information

**WARNING: Failure to read, understand, and follow all instructions in this manual may result in serious injury or property damage.**

- **Read the Manual:** Before using the jack, thoroughly read and understand all instructions and warnings provided in this manual.
- **Rated Capacity:** Never exceed the rated lifting capacity of 12 tons (24,000 LBs).
- **Stable Surface:** Always use the jack on a hard, level surface capable of supporting the load. Avoid soft ground, uneven surfaces, or inclines.
- **Jack Stands:** After lifting the load to the desired height, immediately support it with appropriate jack stands. Never work under a load supported solely by a hydraulic jack.
- **Center the Load:** Position the jack saddle directly under the lifting point of the load. Ensure the load is centered and stable on the saddle.
- **Clear Area:** Keep hands, feet, and other body parts clear of the jack and the load during lifting and lowering operations.
- **Inspect Before Use:** Before each use, inspect the jack for any signs of damage, leaks, or wear. Do not use a damaged jack.

- **Proper Lowering:** Lower the load slowly and carefully. Ensure the area around the load is clear before lowering.
- **Fluid Type:** Use only high-quality hydraulic jack oil. Do not use brake fluid, alcohol, glycerin, detergent, or motor oil, as this can damage the jack and void the warranty.

## 3. Components and Features

The Torin AT91203BB bottle jack includes the following main components and features:

- **Serrated Saddle:** Heat-treated, provides a secure grip on the load.
- **Adjustable Screw Top:** Allows for fine height adjustments and increased lifting range.
- **Pump Handle:** Used to operate the hydraulic pump for lifting.
- **Release Valve:** Controls the lowering of the jack.
- **Oil Filler Plug:** For adding or checking hydraulic fluid.
- **Welded Cylinder:** Inner/outer welded structure designed for leak-free performance and enhanced durability.
- **Safety Bypass Valve:** Prevents over-extension of the hydraulic system.
- **Overload Valve:** Protects the hydraulic system from exceeding its rated capacity.
- **Wide, Rugged Base:** Provides stability and strength during operation.

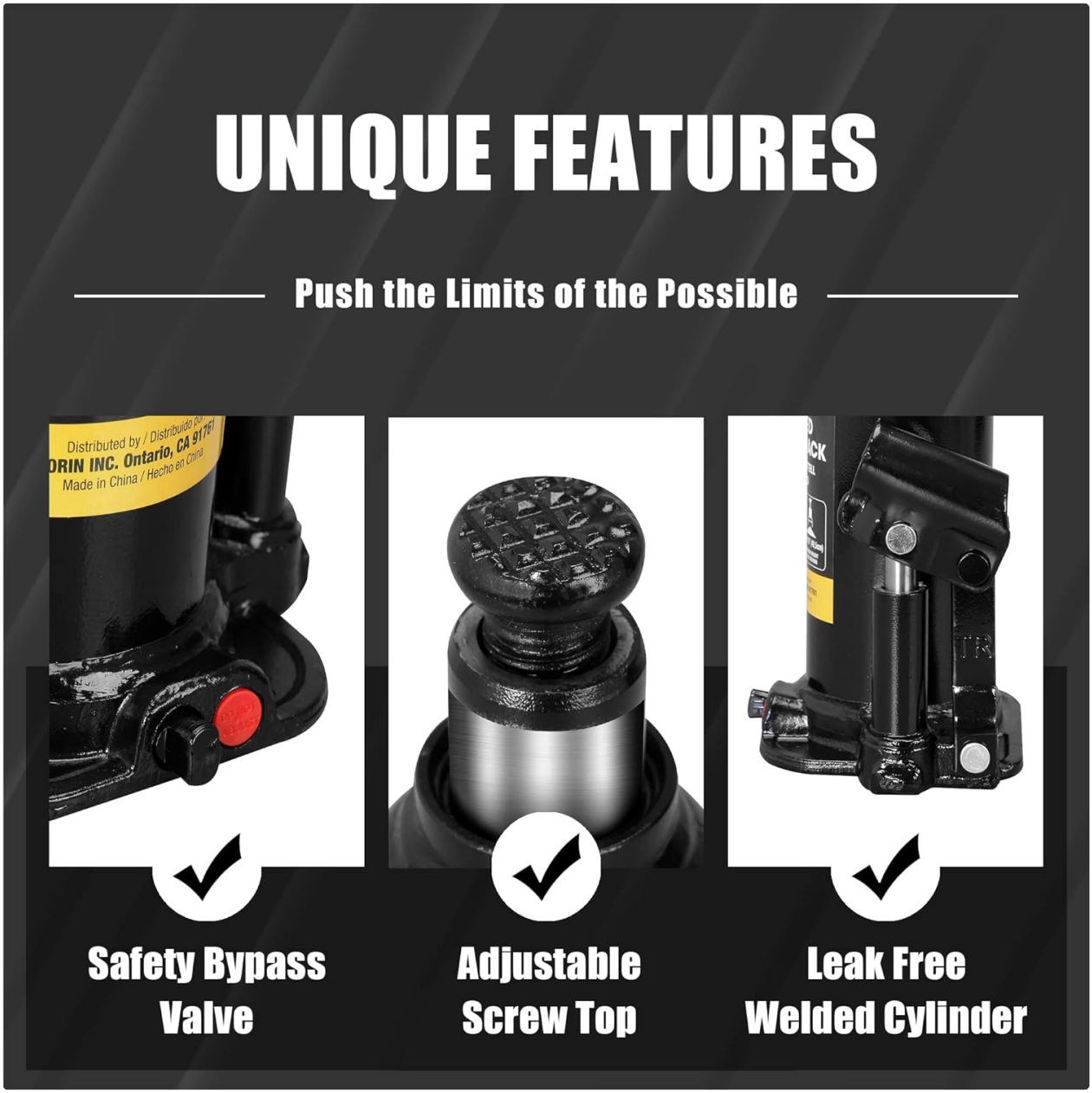


Figure 2: Unique Features. This image highlights the safety bypass valve, adjustable screw top, and leak-free welded cylinder of the bottle jack.

## 4. Setup

1. **Unpacking:** Carefully remove the jack and all components from the packaging. Inspect for any shipping damage.
2. **Handle Assembly:** Assemble the multi-piece pump handle by inserting the smaller sections into the larger ones. The assembled handle is used to operate the pump.
3. **Purge Air from System (Bleeding):** Before first use, or if the jack has been stored for an extended period, it is recommended to purge any air from the hydraulic system. To do this:
    - Open the release valve by turning it counter-clockwise.
    - Remove the oil filler plug.
    - Pump the handle several times to force air out.
    - Close the release valve and replace the oil filler plug.
4. **Check Fluid Level:** Ensure the hydraulic fluid level is adequate. Refer to the Maintenance section for instructions on checking and adding fluid.

## 5. Operating Instructions

1. **Preparation:** Ensure the load is stable and on a hard, level surface. Engage vehicle parking brake and block wheels if applicable.
2. **Positioning:** Place the jack directly under the designated lifting point of the load. Adjust the screw top (if necessary) to ensure maximum contact with the load and minimize the required pump strokes.
3. **Lifting the Load:**
    - Close the release valve firmly by turning it clockwise until it is tight. Do not overtighten.
    - Insert the pump handle into the handle socket.
    - Pump the handle up and down with full strokes to raise the jack. Continue pumping until the load reaches the desired height.
    - **WARNING: Immediately place appropriately rated jack stands under the load once it is lifted. Never rely solely on the hydraulic jack for support.**
4. **Lowering the Load:**
    - Ensure the area around the load is clear of personnel and obstructions.
    - Slowly and carefully turn the release valve counter-clockwise. The load will begin to descend. Control the rate of descent by adjusting how much the valve is opened.
    - Once the load is fully lowered and stable on the ground, remove the jack.

## 6. Maintenance

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

- **Fluid Level Check:** With the jack fully lowered and on a level surface, remove the oil filler plug. The oil level should be just below the filler hole. Add high-quality hydraulic jack oil if needed.
- **Cleaning:** Keep the jack clean and free of dirt, grease, and debris. Wipe down the piston ram after each use to prevent corrosion.
- **Lubrication:** Periodically lubricate moving parts with light machine oil.
- **Storage:** Store the jack in a fully lowered position in a clean, dry area.
- **Special Hydraulic Oil:** The jack uses high-quality hydraulic oil designed for better corrosion resistance and high/low temperature flexibility, allowing operation between 40°F and 105°F.


Figure 3: Special Hydraulic Oil. This image illustrates the properties of the hydraulic oil used in the jack, including thermal stability, abrasion resistance, and biodegradability.

## 7. Troubleshooting

If you encounter issues with your jack, consult the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---|---|---|
| Jack will not lift load. | Release valve open; Low hydraulic fluid; Air in system; Overload. | Close release valve; Check/add fluid; Purge air (bleed system); Do not exceed rated capacity. |
| Jack lifts slowly or erratically. | Low hydraulic fluid; Air in system; Dirty fluid. | Check/add fluid; Purge air (bleed system); Replace fluid. |
| Jack lowers under load. | Release valve not fully closed; Internal leak; Overload. | Ensure valve is tight; Contact service for internal leak; Do not exceed rated capacity. |

## 8. Specifications

| Specification | Value |
| --- | --- |
| Model Number | AT91203BB |
| Load Capacity | 12 Ton (24,000 LBs) |
| Minimum Lifting Height | 9 inches |
| Maximum Lifting Height | 18 inches |
| Adjustable Screw Top Extension | 3-1/8 inches |
| Product Dimensions (L x W x H) | 5.3 x 4.53 x 9 inches |
| Item Weight | 12.87 pounds |
| Operating Temperature Range | 40°F to 105°F |


Figure 4: Jack Dimensions. This image provides a visual representation of the minimum and maximum lifting heights, including the screw top extension.

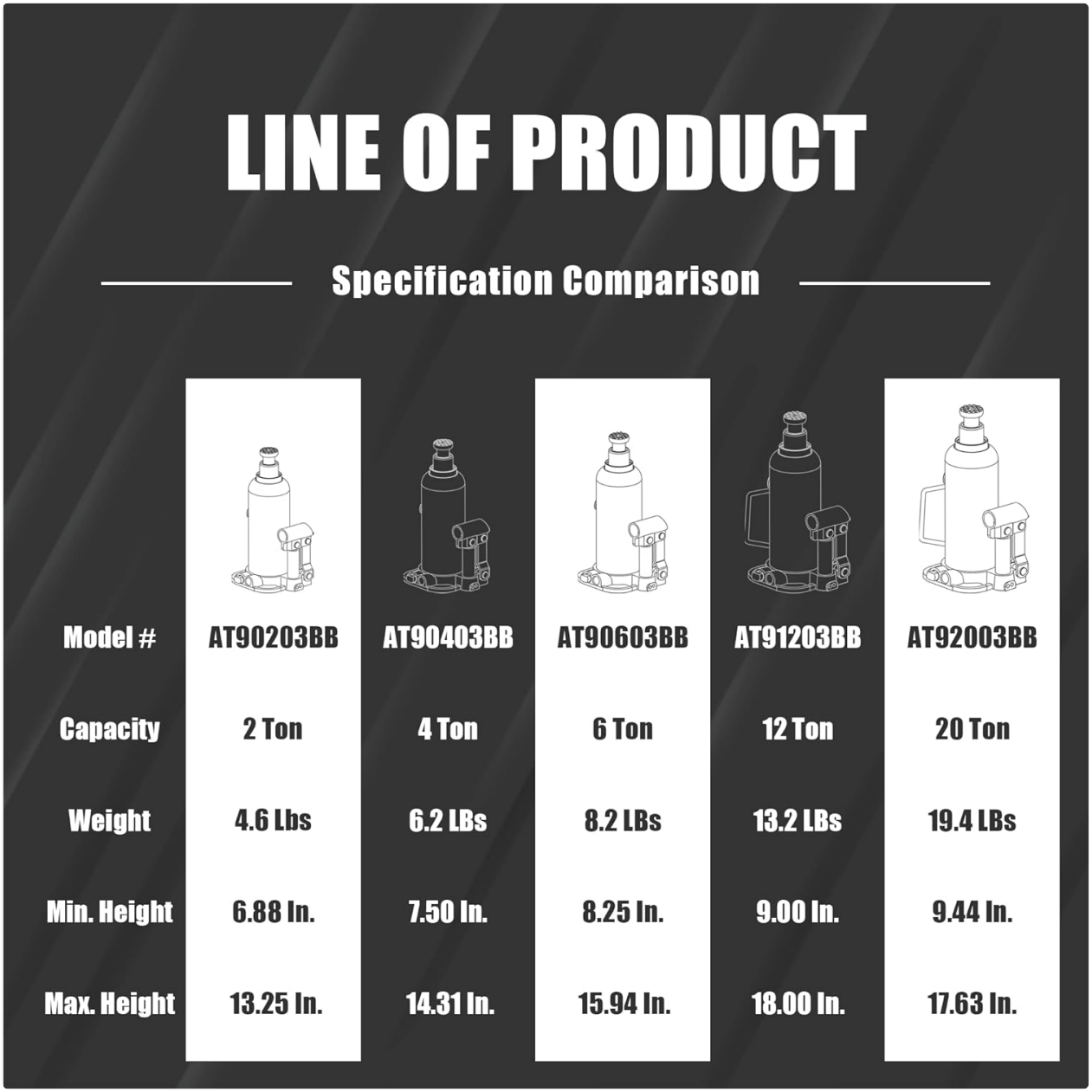


Figure 5: Line of Product Comparison. This image shows a comparison table of different Torin bottle jack models, including their capacity, weight, and height specifications.

## 9. Official Product Video

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Video 1: Torin AT91203BB Hydraulic Welded Bottle Jack. This video provides a brief overview of the Torin 12 Ton Hydraulic Welded Bottle Jack, showcasing its design and features.

## 10. Warranty and Support

The Torin AT91203BB Hydraulic Welded Bottle Jack includes a limited 1-year manufacturer warranty. For warranty claims, technical support, or replacement parts, please contact Torin customer service. Keep your purchase receipt as proof of purchase.