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> [OTC HDJ10P 10 Ton Air/Hydraulic Heavy Duty Service Jack Instruction Manual](#)

OTC HDJ10P

OTC HDJ10P 10 Ton Air/Hydraulic Heavy Duty Service Jack Instruction Manual

PRODUCT OVERVIEW

The OTC HDJ10P is a robust 10-ton capacity air/hydraulic service jack designed for heavy-duty lifting tasks in professional automotive and industrial environments. Its construction emphasizes durability and ease of use, making it suitable for a wide range of vehicles and machinery.

Key features include:

- **10-Ton Capacity:** Capable of lifting substantial loads, ideal for vocational vehicles, highway maintenance, delivery fleets, bucket trucks, school buses, and community transit vehicles.
- **Air-Assist Operation:** Connects to an 80-120 PSI shop air supply for effortless lifting of heavy loads, reducing manual effort.
- **Durable Construction:** Features a rugged steel frame, welded hydraulic pump and cylinder, chrome-plated ram for rust resistance, and contaminant-preventing wiper seals for extended lifespan.
- **Three-Position Locking Handle:** The spring-loaded handle can be locked in three positions (horizontal to vertical) for versatile operation and storage.
- **Easy Maneuverability:** Equipped with a foot pedal for quick saddle positioning, roller bearings on front wheels, and ball bearing-mounted rear caster wheels for stability and smooth movement.
- **Safety Features:** Includes overload and bypass safety valves to prevent use beyond rated capacity and over-extension of the ram, ensuring safe operation.
- **Lifting Range:** Offers a lifting range from 6-3/8 inches to 22 inches, with a 106.2-inch reach.



Figure 1: The OTC HDJ10P 10 Ton Air/Hydraulic Heavy Duty Service Jack in its operational state.

SAFETY INFORMATION

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

- **Read the Manual:** Before operating the jack, thoroughly read and understand all instructions and warnings in this manual.
- **Use on Hard, Level Surface:** Operate the jack only on a hard, level surface capable of supporting the load. Avoid soft ground or uneven surfaces.
- **Never Exceed Rated Capacity:** Do not attempt to lift loads exceeding the 10-ton (20,000 lbs) capacity of this jack.
- **Use Jack Stands:** After lifting a vehicle, always support it immediately with appropriate jack stands. Never work under a vehicle supported only by a hydraulic jack.
- **Center the Load:** Ensure the load is properly centered on the jack saddle to prevent slippage.
- **Wear Safety Gear:** Always wear appropriate personal protective equipment, including safety glasses and gloves.
- **Inspect Before Use:** Before each use, inspect the jack for any signs of damage, leaks, or wear. Do not use a damaged jack.
- **Keep Clear:** Keep hands, feet, and other body parts clear of moving parts and the load during lifting and lowering operations.
- **Proper Air Supply:** Ensure the air supply is within the specified range of 80-120 PSI.

SETUP

1. **Unpacking:** Carefully remove the jack and all components from the packaging. Inspect for any shipping damage.
2. **Handle Assembly:** Insert the handle into the handle socket on the jack. Secure it according to the instructions provided in the separate assembly guide (if applicable). The handle features a three-position locking mechanism.
3. **Connect Air Supply:** Attach a compressed air line to the jack's air inlet. Ensure your air compressor can provide a continuous pressure between 80-120 PSI.
4. **Bleeding the Hydraulic System (Initial Use or After Maintenance):**
 - With the jack fully lowered, open the release valve by turning the handle counter-clockwise.
 - Pump the handle several times to circulate the hydraulic fluid and expel any trapped air.
 - Close the release valve by turning the handle clockwise.
 - Operate the jack to its full height and then lower it completely. Repeat this process a few times to ensure all air is purged.

OPERATING INSTRUCTIONS

1. **Prepare the Vehicle/Load:** Ensure the vehicle is on a hard, level surface. Engage the parking brake and block the wheels that will remain on the ground.
2. **Position the Jack:** Roll the jack under the vehicle, aligning the saddle directly under the manufacturer's

recommended lifting point. Use the foot pedal for quick and precise positioning.

3. Lift the Load:

- **Air-Assist Lifting:** With the air supply connected, press the air-assist trigger (if equipped) or activate the air valve to raise the saddle.
- **Manual Pumping:** If air-assist is not used or available, pump the handle up and down to raise the saddle.

Continue lifting until the load reaches the desired height.

4. Secure with Jack Stands:

Immediately after lifting, place appropriately rated jack stands under the vehicle's designated support points. Slowly lower the vehicle onto the jack stands using the release knob.

5. Lowering the Load:

- Ensure the area around the vehicle is clear.
- Slightly raise the vehicle off the jack stands. Remove the jack stands.
- Slowly turn the release knob counter-clockwise to gradually lower the vehicle. Do not open the valve too quickly, as this can cause the load to drop rapidly.
- Once the vehicle is fully lowered, remove the jack.

MAINTENANCE

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

- **Hydraulic Fluid:** Check the hydraulic fluid level periodically. If low, refill with a high-quality hydraulic jack oil. Refer to the manufacturer's specifications for the correct type.
- **Lubrication:** Lubricate all moving parts, pivot points, and wheel axles with general-purpose grease at regular intervals.
- **Cleaning:** Keep the jack clean and free from dirt, grime, and corrosive materials. The wiper seals protect the hydraulic system from contaminants, but regular cleaning is still recommended.
- **Inspection:** Regularly inspect the jack for any signs of damage, such as bent components, cracks, leaks, or excessive wear on wheels and seals. Replace any damaged parts immediately.
- **Storage:** Store the jack in a clean, dry place with the ram fully retracted to prevent rust and prolong seal life.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Jack will not lift load	Low hydraulic fluid; Air in system; Overload; Release valve open	Check/refill fluid; Bleed system; Reduce load; Close release valve
Jack lifts slowly or erratically	Low hydraulic fluid; Air in system; Worn seals	Check/refill fluid; Bleed system; Replace seals (contact service)
Jack will not hold load	Leaking seals; Release valve not fully closed; Internal valve issue	Inspect for leaks; Ensure release valve is tight; Contact service
Air-assist not working	Insufficient air pressure; Air line disconnected; Air valve malfunction	Check air supply (80-120 PSI); Reconnect air line; Contact service

SPECIFICATIONS

- **Model:** HDJ10P
- **Capacity:** 10 Tons (20,000 lbs)
- **Air Pressure Requirement:** 80-120 PSI
- **Lifting Range:** 6-3/8 inches to 22 inches
- **Reach:** 106.2 inches
- **Saddle Diameter:** 6 inches (round)
- **Frame Height:** 9.8 inches
- **Handle Length:** 45.4 inches
- **Casters:** 4 (Two 5.6-inch fixed front, Two 3.6-inch mid-body swivel)
- **Item Weight:** 293 lbs
- **Product Dimensions:** 67.3 x 21.7 x 15.5 inches
- **Compliance:** Meets all 5 ASME PASE-2019 safety standards for service jacks.

WARRANTY & SUPPORT

The OTC HDJ10P 10 Ton Air/Hydraulic Heavy Duty Service Jack comes with a **Limited Lifetime Warranty**, reflecting OTC's commitment to quality and durability. For warranty claims, technical assistance, or to purchase replacement parts, please contact OTC customer support.

For further information or assistance, please refer to the official OTC website or contact their authorized service centers.

Your browser does not support the video tag.

Video 1: An overview of OTC tools and equipment, demonstrating the brand's commitment to quality and repair solutions.