



ATD-7423W 35-Ton Air Bottle Jack Owner's Manual



Features:

- Welded hydraulic pump and cylinder assures strength and eliminates leaks
- Chrome plated pump piston and ram for additional rust resistance and durability
- Thick base provides a stable lifting platform
- Both manual and pneumatic operation; handle included
- Meets or exceeds ASME / PASE 2019 standards

Specifications

- Capacity (Ton): 35
- Minimum Height: 10.51"
- Maximum Height: 16.42"
- Stroke: 5.91"
- Air Pressure: 100-145 psi
- Base Thickness: 1.12"
- Base Length: 8.86"
- Base Width: 6.61"
- Net Weight: 55.12 lbs.

Product Description

This ATD Hydraulic Air Bottle Jack is designed to lift, but not sustain, rated capacity loads. It's designed to be used vertically. **After lifting, loads must be immediately supported by appropriate means.** This ATD Hydraulic Bottle Jack is suitable for use in an appropriately rated and designed vertical position bench press structure. It is **NOT** recommended for use in positioning construction trailers, houses or other building structures.

Safety Precautions



WARNING: Failure to heed the following warnings can result in personal injury and/or equipment damage.

These warnings cannot cover every situation, so have safety foremost in your mind when using this jack.

- Read, understand, and follow the operating instructions, and the ANSI B30.1 and ASME PALD-1 safety standard for jacks. If the operator cannot read English, operating instructions and safety precautions must be read and discussed in the operator's native language.
- Wear eye protection that meets the requirements of ANSI Z87.1 and OSHA.
- Inspect the jack before each use; do not use the jack if it is damaged, altered, or in poor condition.
- To prevent tipping, set up the jack on a hard, level surface. Set vehicle parking brake and block tires.
- The load must not exceed the rated lifting capacity of the jack. Lift only dead weight.
- Center the load on the jack saddle, because off-center loads can damage seals and cause hydraulic failure.
- Use the jack for lifting purpose only. This jack is designed to LIFT loads, NOT SUPPORT loads. Immediately support a lifted load with jack stands.
- Stay clear of lifted loads.
- Use only approved hydraulic fluid, such as Mobil DTE13M or equivalent.

Inspection

Prior to each use, visually inspect for leaking hydraulic oil, damaged, loose or missing parts. If jack is worn or damaged, remove it from service and contact you nearest hydraulic service center for repair.

Operating Instructions

- Jack operation is controlled either manually or by external air pressure. Either insert the handle into the handle socket to manually operate or connect to an external air pressure source (clean all connections prior to assembly).
- To raise the jack, turn the release valve clockwise until tight and either manually pump with the provided handle or while connected to an air supply depress the air valve.
- To lower the jack, **SLOWLY** open the release valve knob by turning it counter-clockwise (CCW).

Preventive Maintenance

Important: Dirt is the greatest single cause of failure in hydraulic units. Keep the jack clean and well lubricated to prevent foreign matter from entering the system. If the jack has been exposed to rain, snow, or grit, it must be cleaned before it is used.

1. When the jack is not in use, keep the piston fully retracted. Store the jack on its base and in a well protected area where it will not be exposed to corrosive vapors, abrasive dust, or any other harmful elements.
2. Maintain the oil level at the bottom of the filler plug hole. If it is necessary to add oil, remove the filler plug, and fill the reservoir with Mobil DTE13M or equivalent, then re-install filler plug.
3. Visually inspect the jack before each use. Take corrective action if any of the following problems are found:

- a. Cracked or damaged housing
- b. Excessive wear, bending, or other damage
- c. Leaking hydraulic fluid
- d. Scored or damaged piston rod
- e. Incorrectly functioning swivel heads or adjusting screw
- f. Loose hardware
- g. Modified or altered equipment

Maintenance

Important: Use only a good grade hydraulic jack oil. Avoid mixing different types of fluid and **NEVER** use brake fluid, turbine oil, transmission fluid, motor oil or glycerin. Improper fluid can cause failure of the jack and the potential for sudden and immediate loss of load. We recommend Mobil DTE13M or equivalent.

Checking/Adding oil

With the jack in an upright position and the ram completely retracted, open the release valve (turn counter-clockwise) and remove the filler plug. The oil level should be just up to the hole. Fill if necessary with clean hydraulic jack oil. With the release valve open, manually pump the handle six times. Purge the hydraulic system of air. During transit, the unit may become "air bound" causing a spongy ram action. To purge the system, close the release valve (turn clockwise) and manually pump the jack to full height. Open the release valve and push down on the ram. Repeat these steps if necessary to completely purge the system.

Changing oil

For best performance and longest life, replace the complete fluid supply at least once per year.

1. With saddle fully lowered, remove the oil filler plug.
2. Lay the jack on its side and drain the fluid into a suitable container.

Note: Dispose of hydraulic fluid in accordance with local regulations.

3. Set jack in its upright, level position. Fill until oil is level with the filler screw hole, reinstall oil filler screw.

Lubrication

A periodic coating of light lubricating oil to the handle socket pivot point, extension screw and release screw thread will help to prevent rust and assure that pump assemblies move freely.

Cleaning

Periodically check the pump piston and ram for signs of rust or corrosion. Clean as needed and wipe with an oily cloth. **Note:** Never use sandpaper or abrasive material on these surfaces.

Troubleshooting

Symptom	Causes	Remedy
Jack will not lift the load	<ol style="list-style-type: none">1. The release valve is not tightly closed2. The jack is overloaded3. Inadequate air supply	<ol style="list-style-type: none">1. Tighten the release valve2. Rectify the overload condition3 Check and ensure adequate air supply
Jack bleeds off after lifting	<ol style="list-style-type: none">1. The release valve is not tightly closed2. The jack is overloaded3. The hydraulic unit is malfunctioning	<ol style="list-style-type: none">1. Tighten the release valve2. Rectify the overload condition3. Contact the local service center
Jack will not lower after unloading	<ol style="list-style-type: none">1. The reservoir is over filled with hydraulic fluid2. Linkage binding	<ol style="list-style-type: none">1 Drain fluid to the proper oil level2. Clean and lubricate moving parts
Poor lifting performance	<ol style="list-style-type: none">1. Low fluid level2. Air is trapped inside the hydraulic system	<ol style="list-style-type: none">1. Ensure proper fluid level2. With the ram retracted. Remove the oil filler plug. Pump the jack with the release valve open to pressurize the air. Re-install the oil filler plug
The jack will not lift to its maximum height	Low fluid level	Ensure proper fluid level

ITEM#	ORDERING PART#	PART DESCRIPTION		QTY
1	PRT7423W-1-4	HANDLE ASSEMBLY	REAR HANDLE	1
2			SPING PIN	2
3			MIDDLE HANDLE	1
4			FRONT HANDLE	1
11	PRT7423W-SK	SEAL KIT INCLUDES: 12, 13, 11, 15, 16, 19, 25, 26, 32 & 34	RETAINING RING	1
12			O-RING	1
13			DUST PROOF RING	2
15			NYLON GASKET	2
16			COPPER WASHER	4
19			O-RING	1
25			Y-RING	1
26			RETAINING RING	1
32			O-RING	1
34			DUST PROOF RING	1
36	PRT7423W-36-37	SPRING KIT	SPRING COVER	1
37			SPRING	2
43	PRT7423W-15-43	AIR MOTOR	AIR MOTOR ASSEMBLY	1
15			NYLON GASKET	2
16			COPPER WASHER	4
17			OIL VALVE ASSEMBLY	2
44	PRT7423W-44	AIR HOSE ASSEMBLY	AIR HOSE, COUPLER AND INLET VALVE	1



WARRANTY

1 YEAR LIMITED WARRANTY

THIS WARRANTY AND CONFIRMED RECEIPT(S) SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES

PURCHASED FROM: _____

DATE PURCHASED: _____

INVOICE/RECEIPT NUMBER: _____

Your ATD-7423W is warranted for a period of 12 months from the original purchase date.

For a period of one (1) year from your purchase date, ATD Tools Inc. will repair or replace (at its option) without charge, your ATD product if it was purchased new and the product has failed due to a defect in material or workmanship which you experienced during normal use of the product. This limited warranty is your exclusive remedy.

To access the benefits of this warranty, contact your supplier, or point of sale directly. You may be advised to return the product under warranty, freight prepaid, to your supplier for warranty determination.

If this ATD product is altered, abused, misused, modified, or undergoes service by an unauthorized technician, your warranty will be void. We are not responsible for damage to ornamental designs you place on this ATD product and such ornamentation should not cover any warnings or instructions or they may void the warranty. This warranty does not cover scratches, superficial dents, and other abrasions to the paint finish that occur under normal use. It also does not cover normal wear items such as but not limited to brushes, batteries, drill bits, drill chucks, pads or blades.

Subject to the law in your state:

- (1) Your sole and exclusive remedy is repair or replacement of the defective product as described above.
- (2) ATD is not liable for any incidental damages, including but not limited to, lost profits and unforeseeable consequences.
- (3) The repair and replacement of this product under the express limited warranty described above is your exclusive remedy and is provided in lieu of all other warranties, express or implied. All other warranties, including implied warranties and warranties of merchantability or fitness for a particular purpose are disclaimed and, if disclaimer is prohibited, these warranties are limited to one year from your date of purchase of this product.

Some states' laws do not allow limited durations on certain implied warranties and some states' laws do not allow limitations on incidental or consequential damages. You should consult the law in your state to determine how your rights may vary.

[Affix receipt or invoice here for safe keeping]