

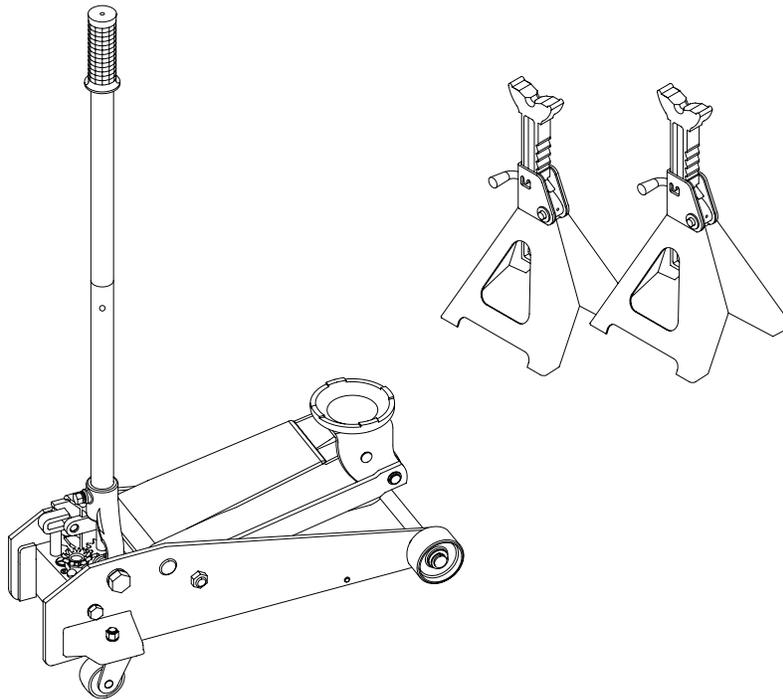


# Service Jack Combo

## Operating Instructions & Parts Manual

Model Number  
ATD7500

Capacity  
3 Ton



*This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.*

<b>⚠ WARNING</b>	
	<p><i>To avoid crushing and related injuries: NEVER work on, under or around a load supported only by a hydraulic jack. ALWAYS use adequately rated jack stands.</i></p>

Atd Tools Inc.  
160 Enterprise Drive, Wentzville MO 63385

Printed in China  
ATD7500-M0\_102012

## SAFETY AND GENERAL INFORMATION

**Save these instructions.** For your safety, read, understand, and follow the information provided with and on this device before using. The owner and/or operator shall have an understanding of the device, its operating characteristics and safety operating instructions before operating the equipment. The owner and/or operator shall be aware that use and repair of this product may require special skills and knowledge. Instructions and safety information shall be read to and discussed with the operator in the operator's native language, making sure that the operator comprehends their contents, before use of this equipment is authorized. If any doubt exists as to the safe and proper use of this device, remove from service immediately.

**Inspect before each use.** Do not use if abnormal conditions such as cracked welds, damaged, loose or missing parts are noted. Any equipment that appears damaged in any way, is found to be worn, or operates abnormally shall be removed from service until repaired. If the equipment has been or is suspected to have been subjected to an abnormal load or shock, immediately discontinue use until inspected by a factory authorized repair facility (contact distributor or manufacturer for list of authorized repair facilities). It is recommended that an annual inspection be made by an authorized repair facility. Labels and Operator's Manuals are available from the manufacturer.

## PRODUCT DESCRIPTION

The Atd Service Jack is designed to lift, but not support, one end of a vehicle. Immediately after lifting, loads must be supported by a pair of appropriately rated jack stands. This service jack has a unique feature that provides fast, no load lifts to the jacking point, at which time it lifts in approximately 0.75 ~ 2" increments.

**⚠ WARNING:** Do not use hydraulic jack as stand-alone device. After lifting, immediately support the lifted vehicle with a pair of appropriately rated jack stands.

The Atd Jack Stands are designed to support rated capacity, partial vehicle loads consisting of one end of a vehicle. Use as a matched pair to support one end of a vehicle only.

**⚠ WARNING:** Use only on areas of the vehicle as specified by the vehicle manufacturer. Use only on vehicles whose support points are compatible with the saddle of the jack stand. Incompatibility may result in structural damage to the vehicle and/or jack stand. Structural damage to either may result in sudden and unexpected loss of load height.

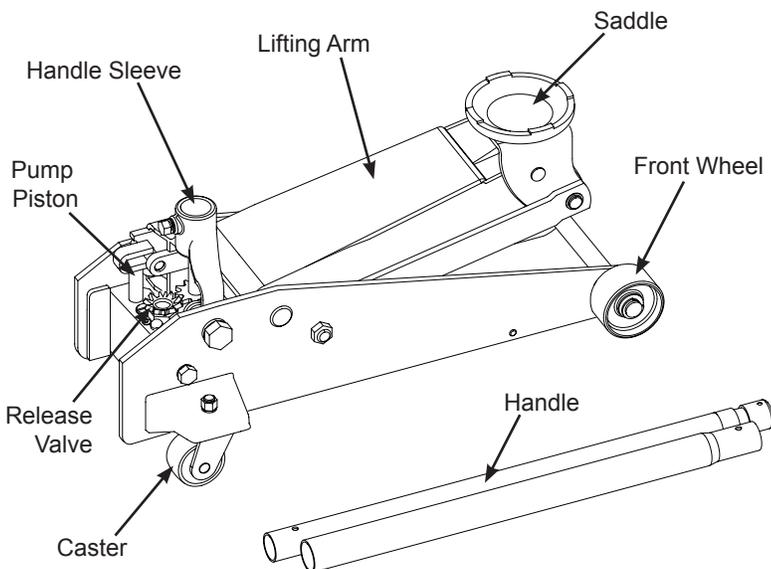


Figure 1 - Service Jack Components

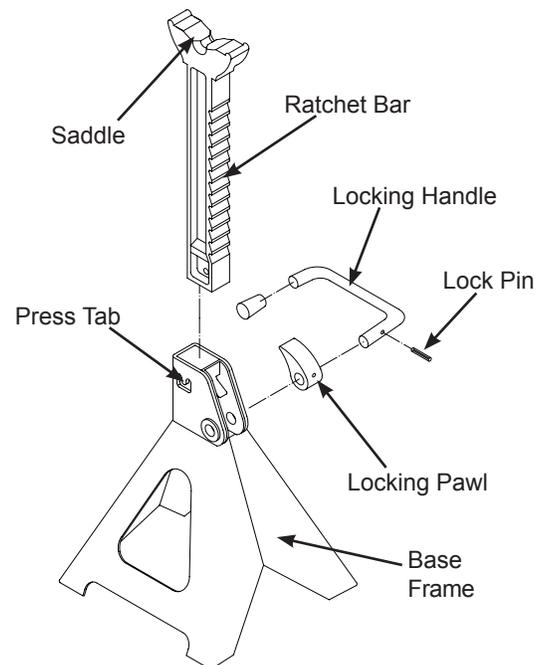


Figure 2 - Jack Stand Components

## **WARNING**

### - Service Jack -

- Study, understand, and follow all instructions before operating this device.
- Do not exceed rated capacity.
- Use only on hard, level surface.
- Lifting device only. Immediately after lifting, support the vehicle with appropriate means.
- Lift only on areas of the vehicle as specified by the vehicle manufacturer.
- Do not move or dolly the vehicle while on the jack.
- No alterations shall be made to this product.
- Failure to heed these markings may result in personal injury and/or property damage.

## **WARNING**

### - Jack Stands -

- Study, understand, and follow all instructions before operating this device.
- Do not exceed rated capacity.
- Use only on hard level surface.
- Center load on saddle.
- Use as a matched pair only.
- Stands are not to be used to simultaneously support both sides or one end of a vehicle.
- No alterations shall be made to this product.
- Failure to heed these markings may result in personal injury and/or property damage.

## SPECIFICATIONS

### Service Jack Model 7504:

Capacity	Min. Height	Max. Height	Saddle Diameter	Jack Size (L x W x H)	Volume of Hyd. Oil	Net Weight
3 Ton	5-1/4"	19-3/4"	4-3/8"	26-3/4" x 13-3/8" x 7-1/8"	245 mL	78 lb.

### Jack Stands Model 7443:

Capacity	Min. Height	Max. Height	Saddle Size	Base Size (L x W)	Net Weight
3 Ton	11-1/2"	16-3/4"	3-1/2" x 1"	6-3/4" x 7-3/4"	14.1 lb.

## PREPARATION

### Assembly

Make sure all parts are present (refer Fig. 1 & 2). If any part is missing or damaged, do not attempt to assemble, install or operate the product. Contact Customer service.

#### A. Service Jack:

1. Attach the 2-pc handle with bolt provided on the handle.
2. Secure the assembled handle into handle sleeve with provided bolt. Tighten securely to prevent accidental removal of handle while in use.

 **WARNING:** Do not lift or carry jack by handle. Handle could dislodge and jack fall, resulting in possible injury or property damage.

## B. Jack Stands:

Tools required: Hammer and punch (not included)

1. Install ratchet bar into base frame with ratchet portion of bar aligned with locking pawl.
2. Move the ratchet bar to its lowest position by raising the locking handle, thereby releasing the stopper and guiding the bar downward.
3. Ratchet/ collar lock is accomplished by simply pressing the press tab (see Fig. 2) inward using a suitable hammer and punch. This will effectively prevent inadvertent loss of the ratchet bar.

## Before Use

1. Before using this product, read the operator's manual completely and familiarize yourself thoroughly with the product, its components and recognize the hazards associated with its use.
2. Verify that the product and application are compatible, if in doubt call Atd Tools Tech. Service (636) 327-9050.

## Service Jack:

3. To familiarize yourself with basic operation of service jack, locate and turn the release valve (handle):
  - a. *Clockwise* until firm resistance is felt to further turning. This is the '**CLOSED**' release valve position used to raise the saddle.
  - b. *Counter-clockwise*, but no more than 1/2 turn from the closed position. This is the '**OPEN**' release valve position used to lower the saddle.
4. With saddle fully lowered and release valve closed, pump the handle. If lift arm responds immediately, jack is ready for use. If jack does not respond, follow **Bleeding/Venting Trapped Air** instruction below. Check oil level. Proper oil level will vary from just covering the ram cylinder to 3/16" above it as seen from the oil filler hole. Reinstall oil plug.
5. Ensure that jack rolls freely. Raise and lower the unloaded saddle throughout the entire lifting range before putting into service to ensure the pump operates smoothly. Replace worn or damaged parts and assemblies with authorized replacement parts only.

## Bleeding/Venting Trapped Air

With the release valve in the OPEN position (step 3b. above) and with saddle fully lowered, locate and remove the oil filler plug. Pump handle 6 to 8 full strokes. This will help release pressurized air which may be trapped within the reservoir. Reinstall the oil filler plug and check operation.

# OPERATION

## Lifting

1. Follow vehicle manufacturer's recommended guidelines for lifting. Engage the emergency brake and chock each unlifted wheel in both directions to prevent inadvertent vehicle movement.
2. Set up jack stands:
  - a. Adjust height by pulling up the ratchet bar.
  - b. The weight of locking handle should secure the ratchet bar in desired position. To confirm this, push down on the locking handle.
3. Close release valve by turning the handle clockwise until firm resistance is felt.
4. Verify lift point, then center jack saddle under lift point. Pump handle to contact lift point. To lift, pump handle until load reaches desired height.
5. Transfer load **immediately** to a pair of jack stands:
  - a. *Carefully* position the stands so that load is centered on the saddle. Ensure that ratchet is secured before loading.
  - b. *Slowly* lower the vehicle onto stands. Ensure the vehicle is secured before working on, around or under.

# ⚠ WARNING



*To avoid crushing and related injuries:*

- *Never work on, under or around a load supported only by hydraulic jack.*
- *Always use adequately rated jack stands.*
- *Chock each unlifted tire in both directions.*
- *Do not use this device to lift, level, lower, support nor move a house, mobile home, travel trailer, camper or any building structure.*
- *Be alert and sober when using this product. Do not operate under the influence of drugs or alcohol.*

## Lowering

**⚠ WARNING:** *Clear all tools and personnel before lowering vehicle. Open release valve slowly. The further the pump handle is turned counter-clockwise, the faster the load will descend. Maintain control of load at all times.*

1. Raise vehicle high enough to clear the jack stands.
2. Remove jack stands carefully.
3. Turn the pump handle counter-clockwise, but no more than 1/2 full turn. *If the load fails to lower:*
  - a. Use another jack to raise the vehicle high enough to reinstall jack stands.
  - b. Remove malfunctioning jack, then the jack stands.
  - c. Use the functioning jack to lower the vehicle
4. After removing jack from under the vehicle, fully lower the saddle to reduce ram exposure to rust and contamination.

## MAINTENANCE

### Service Jack

#### Adding Oil

**NOTICE:** *Use premium quality 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 premature failure of the jack and the potential for sudden and immediate loss of load.*

1. With saddle fully lowered set jack in its upright, level position. Locate and remove oil filler screw.
2. Fill with oil until ~3/16" above the inner cylinder as seen from the oil filler hole. Reinstall the oil filler screw.

#### Changing Oil

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

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

**NOTICE:** *Dispose of hydraulic fluid in accordance with local environmental regulations.*

3. Fill with oil until ~3/16" above the inner cylinder as seen from the oil filler hole. Reinstall oil filler screw.

#### Lubrication

A periodic coating of light lubricating oil to pivot points, axles and hinges will help to prevent rust and assure that wheels, casters and pump assemblies move freely.

#### Cleaning

Periodically check pump piston and ram for signs of rust or corrosion. Clean as needed and wipe with an oily cloth.

**NOTICE:** *Do not use sandpaper or abrasive material on ram and pump piston surfaces.*

#### Storage

When not in use, store the jack with saddle fully lowered.

#### Jack Stands

Periodically inspect each stand. Ensure all parts move freely. Do not apply oil or grease to any portion of this product. If rust appears, sand affected area and cover with suitable utility paint. Please note that jack stands are sold as a matched pair and there are no replacement parts applicable to this device.

#### Storage

Store stands in upright position and in a clean, dry area.

# REPLACEMENT PARTS

Not all components of the jack are replacement items, but are illustrated as a convenient reference for position in the assembly sequence. When ordering parts, give Model number, part number and description below. Call or write for current pricing: ATD Tools Inc., 160 Enterprise Drive, Wentzville, MO 63385; Tel: (636) 327-9050; Fax: (636) 327-9044.

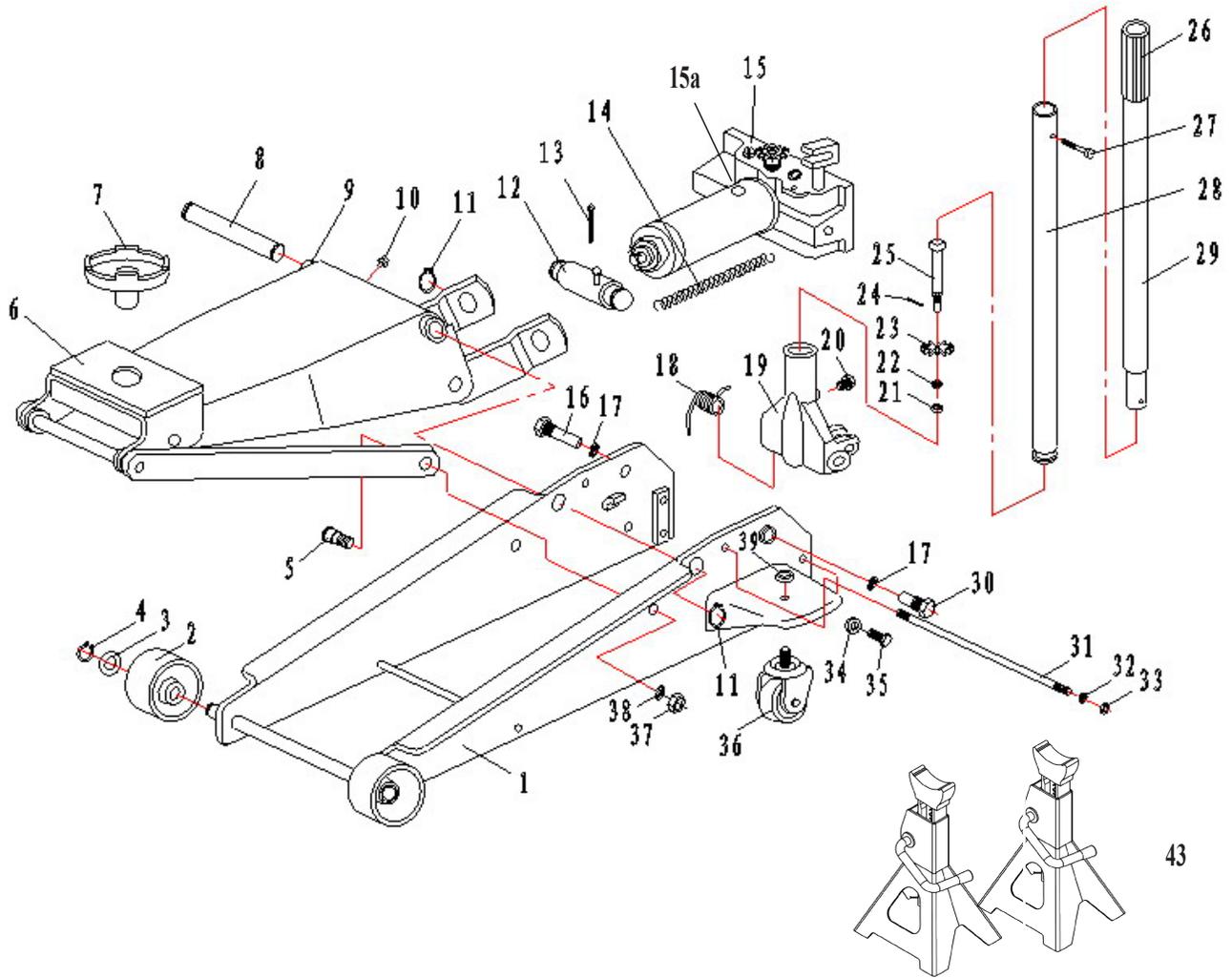


Figure 3 - Replacement Parts Illustration for Model ATD7500 Service Jack Combo

Item	Part No.	Description	Qty
1	N/A	Side Plate	1
2	(see #41)	Front Wheel	2
3	(see #41)	Washer	2
4	(see #41)	C-clip	2
5	N/A	Bolt, Radius Link	2
6	N/A	Lifting Arm	1
7	7504-07	Saddle	1
8	N/A	Axle, Lift Arm	1
9	N/A	C-clip	2
10	7504-10	Grease Fitting	1
11	N/A	C-clip	2
12	N/A	Cross Head	1
13	N/A	Retaining Pin	1
14	7504-14	Return Spring	1
15	7504-15	Hydraulic Unit	1
15a	7504-15a	Oil Filler Plug	1
16	7504-16	Handle Bolt, Right	1
17	7504-17	Washer	2
18	7504-18 (see #43)	Spring, Handle Sleeve	1
19	N/A	Handle Sleeve	1
20	7504-20	Bolt	1
21	(see #43)	Hex Nut	1
22	(see #43)	Washer	1
23	7504-23	Release Valve Gear	1
24	(see #43)	Roll Pin	1
25	7504-25	Gear Shaft	1
26	7504-26	Handle Grip	2
27	(see #40)	Bolt	1
28	(see #40)	Handle, Lower	1
29	(see #40)	Handle, Upper	1
30	7504-30	Handle bolt, Left	1
31	N/A	Fame Tie Rod	3
32	N/A	Washer	6
33	N/A	Hex Nut	6
34	N/A	Washer	2
35	N/A	Bolt	2
36	(see #42)	Caster	2
37	N/A	Hex Nut	2
38	N/A	Washer	2
39	(see #42)	Hex Nut	2
40	7504-40	Handle Assembly (incl. parts 26~ 29)	-
41	7504-41	Front Wheel Assy (incl. parts 2~4)	-
42	7504-42	Caster Assy (incl. parts 36 & 39)	-
43	ATD-7443	Jack Stands, 3-Ton (sold as pair only)	1
44	ATD-7500LO	Labels/OIPM Set	1

## TROUBLESHOOTING

Symptom	Possible Causes	Corrective Action
Jack will not lift load	<ul style="list-style-type: none"> <li>• Release valve not tightly closed</li> <li>• Load is too heavy</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure release valve tightly closed</li> <li>• Consider higher capacity jack</li> </ul>
Jack will lift, but not maintain pressure	<ul style="list-style-type: none"> <li>• Release valve not tightly closed</li> <li>• Hydraulic unit malfunction</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure release valve tightly closed</li> <li>• Discontinue use, contact ATD Tools technical service</li> </ul>
Jack will not lower after unloading	<ul style="list-style-type: none"> <li>• Reservoir overfilled</li> <li>• Linkages binding</li> <li>• Fluid level low</li> </ul>	<ul style="list-style-type: none"> <li>• Drain fluid to proper level</li> <li>• Clean and lubricate moving parts</li> <li>• Ensure proper fluid level</li> </ul>
Poor lift performance	<ul style="list-style-type: none"> <li>• Fluid level low</li> <li>• Air trapped in system</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure proper fluid level</li> <li>• Perform <b>Bleeding/Venting Trapped Air</b> procedure</li> </ul>
Will not lift to full extension	<ul style="list-style-type: none"> <li>• Fluid level low</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure proper fluid level</li> </ul>

## ONE YEAR LIMITED WARRANTY

For a period of one (1) year from date of purchase, **ATD Tools Inc.** will repair or replace, at its option, without charge, any of its products which fails due to a defect in material or workmanship under normal usage. This limited warranty is a consumer's exclusive remedy.

Performance of any obligation under this warranty may be obtained by returning the warranted product, freight prepaid, to **ATD Tools Inc.** Warranty Service Department, 160 Enterprise Drive, Wentzville, MO 63385.

Except where such limitations and exclusions are specifically prohibited by applicable law, (1) THE CONSUMER'S SOLE AND EXCLUSIVE REMEDY SHALL BE THE REPAIR OR REPLACEMENT OF DEFECTIVE PRODUCTS AS DESCRIBED ABOVE. (2) **ATD Tools Inc.** SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGE OR LOSS WHATSOEVER. (3) ANY IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO ONE YEAR, OTHERWISE THE REPAIR, REPLACEMENT OR REFUND AS PROVIDED UNDER THIS EXPRESS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER, AND IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. (4) ANY MODIFICATION, ALTERATION, ABUSE, UNAUTHORIZED SERVICE OR ORNAMENTAL DESIGN VOIDS THIS WARRANTY AND IS NOT COVERED BY THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



ATD Tools Inc.  
160 Enterprise Drive,  
Wentzville MO 63385  
636-327-9050