

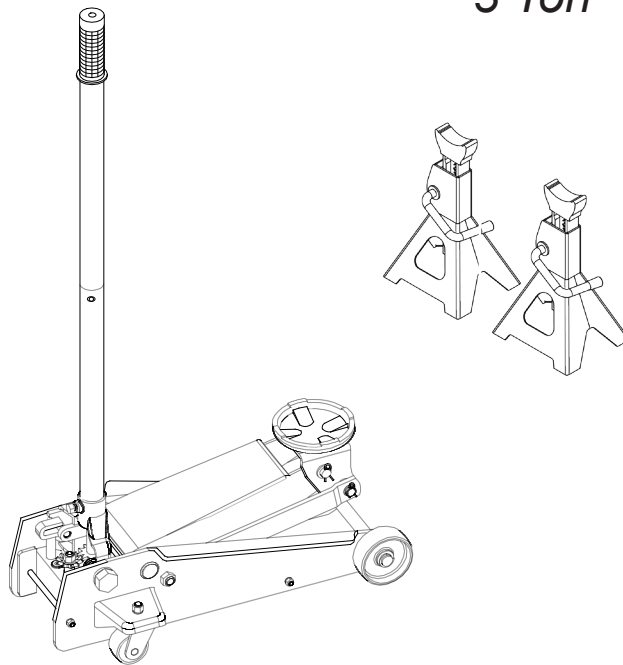


# Service Jack Combo

## Operating Instructions & Parts Manual

**Model Number**  
*Atd-7500*

**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.

### **ADVERTENCIA**

- Leer, comprender, y seguir las instrucciones antes de utilizar el aparato.
- El manual de instrucciones y la información de seguridad deben estar comunicados en lengua del operador antes del uso.
- No seguir estas indicaciones puede causar daños personales o materiales.

### **WARNING**

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.

## SAFETY and GENERAL INFORMATION

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

**Inspect before each use.** Do not use if broken, bent, cracked or damaged parts are noted. Any jack or jack stand that appears damaged in any way, or operates abnormally shall be removed from service immediately. If the jack or jack stand has been or suspected to have been subjected to a shock load (a load dropped suddenly, unexpectedly upon it), immediately discontinue use until jack has been checked by a factory authorized service center (contact distributor or manufacturer for list of authorized service centers). It is recommended that an annual inspection be done by qualified personnel. Labels and Operator's Manuals are available from manufacturer.

No repair shall be made to a jack stand. Replace jack stands as a matched set. No user servicable parts are available for jack stands.



**Any jack stand that appears to be damaged in any way, is worn or operates abnormally shall be removed from service and destroyed immediately.**

## PRODUCT DESCRIPTION

This Atd **Service Jack** is designed to lift, but not support, one end of a vehicle. **Immediately** after lifting, loads must be supported by the included pair of Atd Model 7443 jack stands.



**NEVER** use hydraulic jack as stand-alone device. After lifting, **immediately** support the lifted vehicle with a pair of appropriately rated jack stands.

**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.



**NEVER** use automotive jack stands to support **both ends** or **one side** of a vehicle!  
Use only **one (1) pair** per vehicle. Rated capacity is **per pair only!** **Rated capacity of this pair: 6,000 lb.**

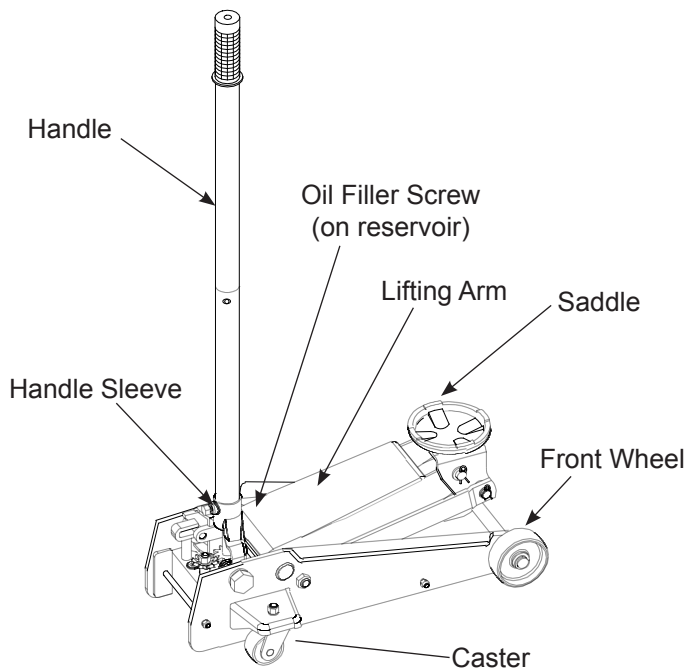


Figure 1 - Service Jack Components

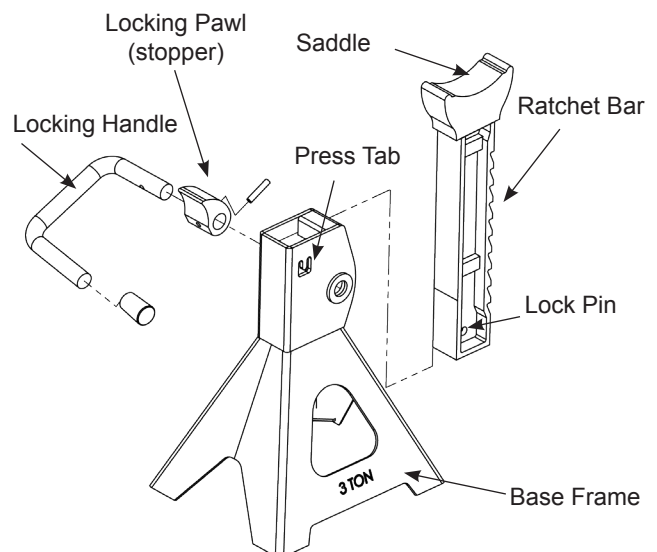


Figure 2 - Jack Stands Components

## 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.

#### 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. Verify that the product and application are compatible
2. 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.
3. Inspect before each use. Do not use if there are bent, broken or cracked components noted.
4. Always check the vehicle owner's or service manual for location of proper lift and support points.

#### Service Jack:

5. 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.
6. With saddle fully lowered, remove the oil filler screw. Pump 6 to 8 full strokes. 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 the oil filler plug.
7. Ensure that jack rolls freely. Raise and lower the unloaded saddle throughout the lifting range before putting into service to ensure the pump operates smoothly. Replace worn or damaged parts and assemblies with Atd Tools authorized replacement parts only.

### **Bleeding / Venting Trapped Air of a Service Jack**

With the release valve in the OPEN position (5b.) and with saddle fully lowered, locate and remove the oil filler plug. Pump 6 to 8 full strokes. This will help release any pressurized air which may be trapped within the reservoir. Reinstall the oil filler screw.

## WARNING

- **Study, understand, and follow** all printed materials provided with/on this product **before use**.
- Use **only** on hard, level surface.
- **Do not** exceed rated capacity.
- Lift and support **only** on areas of the vehicle as specified by the vehicle manufacturer.
- Center load on saddle.
- No alterations shall be made to this product.

### SERVICE JACK:

- **This is a lifting device only!**
- **Immediately** after lifting, support the load with a **pair** of appropriately rated jack stands.
- Do not move or dolly the vehicle while on the jack.

### JACK STANDS:

- Rated capacity of **jack stands** is **PER PAIR!**
- Use as a matched pair to support one end of a vehicle only. Use only **ONE (1) PAIR** per vehicle.
- Jack stands are not to be used to simultaneously support both ends or one side of a vehicle.

**FAILURE TO HEED THESE MARKINGS MAY  
RESULT IN PERSONAL INJURY AND/OR  
PROPERTY DAMAGE**

## 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.

## OPERATION

### Lifting



*Only attachments and/or adapters supplied by the manufacturer shall be used.*



*Use **jack stands 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!*

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, Simply 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.



***NEVER** use hydraulic jack as a stand alone device! **ALWAYS** transfer the lifted load **IMMEDIATELY** to a pair of appropriately rated jack stands.*

### Lowering



*Be sure all tools and personnel are clear before lowering load. **Slowly open the release valve!** The more you turn the handle counter-clockwise, the faster the load will come down. **Maintain control** of the rate of speed at which the load lowers at all times!*

1. Raise vehicle high enough to clear the jack stands.
2. Remove jack stands carefully.
3. **Slowly** turn the 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

### A. Service Jack:

**Important:** Use **ONLY** 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 DTE 13M.

#### Adding oil

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

#### Changing oil

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

1. With saddle fully lowered, remove 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. Fill with oil until ~3/16" above the inner cylinder as seen from the oil filler hole. Reinstall oil filler plug.

#### 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.

**Note:** Never use sandpaper or abrasive material on these surfaces!

#### Storage

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

### B. 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 there is no replacement part applicable to this device.

#### Storage

## 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>• With ram fully retracted, remove oil filler screw to let pressurized air escape. Reinstall oil filler screw</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>

# REPLACEMENT PARTS

Not all components of the jack are replacement items, but are illustrated as a convenient reference of location and position in the assembly sequence. When ordering parts, give Model number, part number and description below.

## Replacement Parts for Model Atd-7504

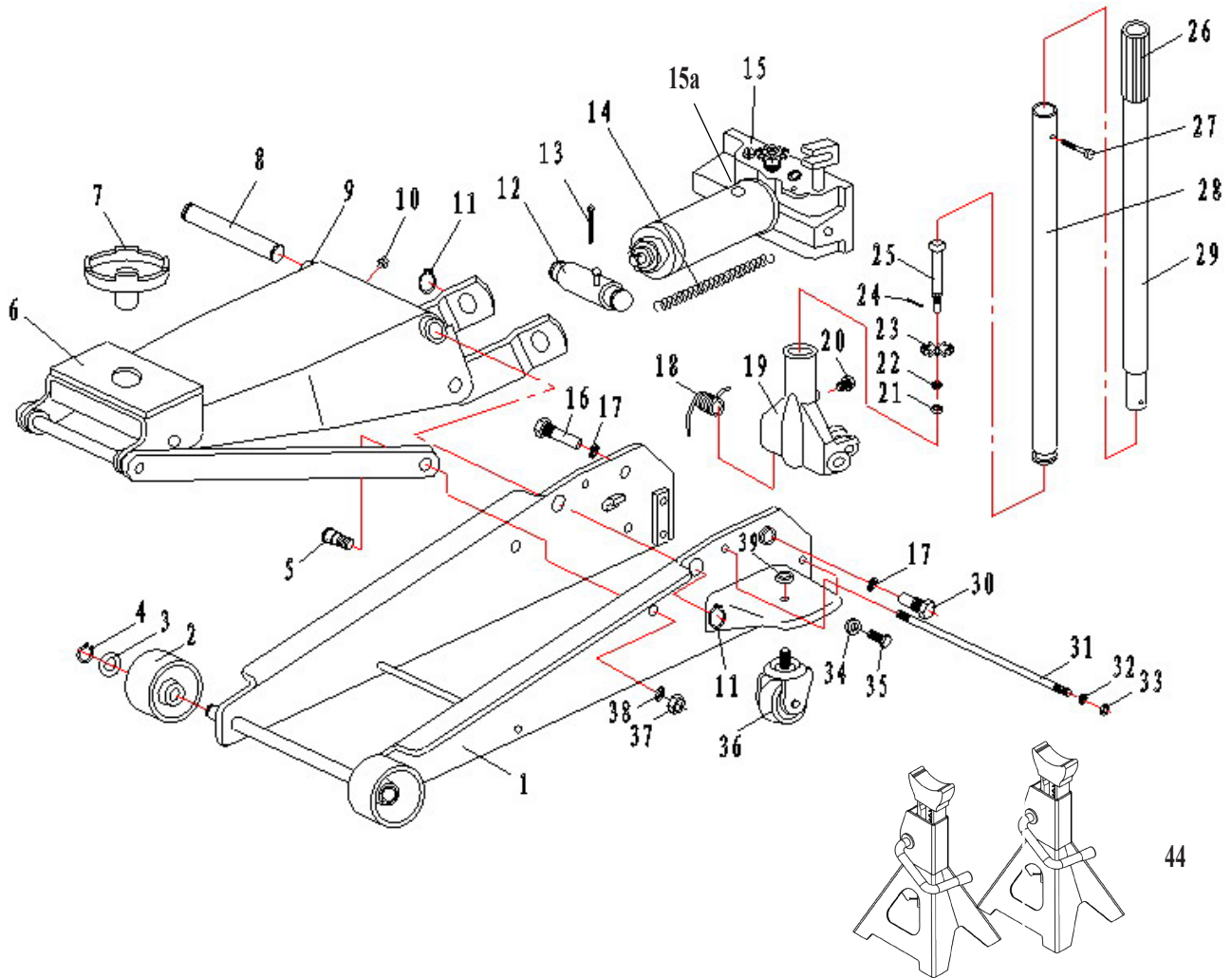


Figure 3 - Replacement Parts Illustration for Model Atd-7500 Service Jack Combo

Replacement Parts List for Atd model 7504 Service Jack

Item	Part No.	Description	Qty
1	N/A	Side Plate	1
2	(see #41)	Front Wheel	2
3	(see #41)	Washer, D18	2
4	(see #41)	C-clip, D18	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, D30	2
10	7504-10	Grease Fitting	1
11	N/A	C-clip, D25	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, D18	2
18	7504-18 (see #43)	Spring, Handle Sleeve	1
19	7504-19 (see #43)	Handle Sleeve	1
20	7504-20	Bolt	1
21	(see #43)	Hex Nut, M10	1
22	(see #43)	Washer, D10	1
23	7504-23	Release Valve Gear	1
24	(see #43)	Roll Pin D2.5x15	1
25	7504-25	Gear Shaft	1
26	7504-26	Handle Grip	2
27	(see #40)	Bolt, M6x35	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, D10	6
33	N/A	Hex Nut, M10	6
34	N/A	Washer, D12	2
35	N/A	Bolt, M12x25	2
36	(see #42)	Caster	2
37	N/A	Hex Nut, M16	2
38	N/A	Washer, D16	2
39	(see #42)	Hex Nut, M12	2
40	7504-40	Handle Assembly (includes #26~ 29)	-
41	7504-41	Front wheel Asembly (includes #2~4)	-
42	7504-42	Caster Assembly (includes # 36 & 39)	-
43	7504-43	Handle Sleeve Assembly (includes # 19 ~ 25)	-
44	ATD7443	Jack Stands, 3 Ton (replace as pair only)	1