



## **ATD-7328B 22-Ton Low Profile Axle Jack Owner's Manual**



### **Features:**

- High speed air motor quickly raises the load to the desired height
- Air control knob allows precise lifting and lowering
- Welded pump for trouble free performance
- Heat-treated extension screw allows for maximum lift height
- Heavy-duty wheels with bearings for easy movement
- (3) adapters included: .8", 2.4", 3.9"
- (3) handle positions allow for easy storage, movement and access to lift point
- Meets or exceeds ASME/PASE 2019 standards

### **Specifications:**

- Capacity (Tons): 22
- Minimum Height: 8.93"
- Maximum Height: 17"
- Maximum Height With Adapter: 20.93"
- Ram Travel: 4.75"
- Handle Length: 48.4"
- Air Pressure: 110-120 PSI
- Weight: 73.8 lbs.



*The safety alert symbol is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or property damage.*

## **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 should have an understanding of the device, its operating characteristics and safety operating instructions before operating the equipment. The owner and/or operator should be aware that use and repair of this product may require special skills and knowledge. Instructions and safety information should 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 should 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**

Hydraulic Axle Jacks are designed to lift, but not support, rated capacity partial vehicle loads consisting of one end of a vehicle. Immediately after lifting, support loads with a pair of appropriately rated jack stands.

## **PREPARATION**

Reference assembly instructions on pages 2-3 and replacement parts pages 10-12 for parts location and assembly sequence. Assemble, align and insert the handle assembly and handle position bar into the handle sleeve, then tighten the bolt on handle fork to prevent accidental removal of handle while in use.

## **ASSEMBLY**

See illustration on page 3 for detail

1. Assemble Lower Handle (77) and Upper Handle (67) and secure with Bolt (71)
2. Pass the Lower Tie Rod (76) through the bracket on the Lower Handle (77)
3. Thread the Nut (79) onto the Lower Tie Rod (76) then screw the Lower Tie Rod (76) into the Upper Tie Rod (73)
4. Tighten the Nut (79) then put the R-Pin (75) through the hole in the Lower Tie Rod (76). Ensure that the R-Pin is above the bracket on the Lower Handle (77)
5. Slide Handle Assembly (15) into Handle Fork (07) ensure that you slide the Tie Rod assembly through the locking bracket guides. Use Bolt (16) to lock the Handle Assembly into the Handle Fork (07)
6. Connect the polyurethane (PU) tubes to the joints with the same color
7. Using the U-Bolts (21) and Nuts (27), mount the Adapter Holder (22) around the Handle Assembly (15) as shown
8. Place Adapters (23, 24, 25) into the Adapter Holder (22)



### Bleeding/Venting Trapped Air

1. Open Oil Filler Plug (39).
2. Rotate the Air Lever to the right slightly to activate the Air Motor for slow pumping.
3. Rotate the Air Lever to the left slightly to activate the Air Motor for slow pumping.
4. Repeat steps 2 and 3 several times.
5. Rotate Air Lever to the left until the Ram is fully retracted.
6. Check oil level and reinstall Oil Filler Plug (39).

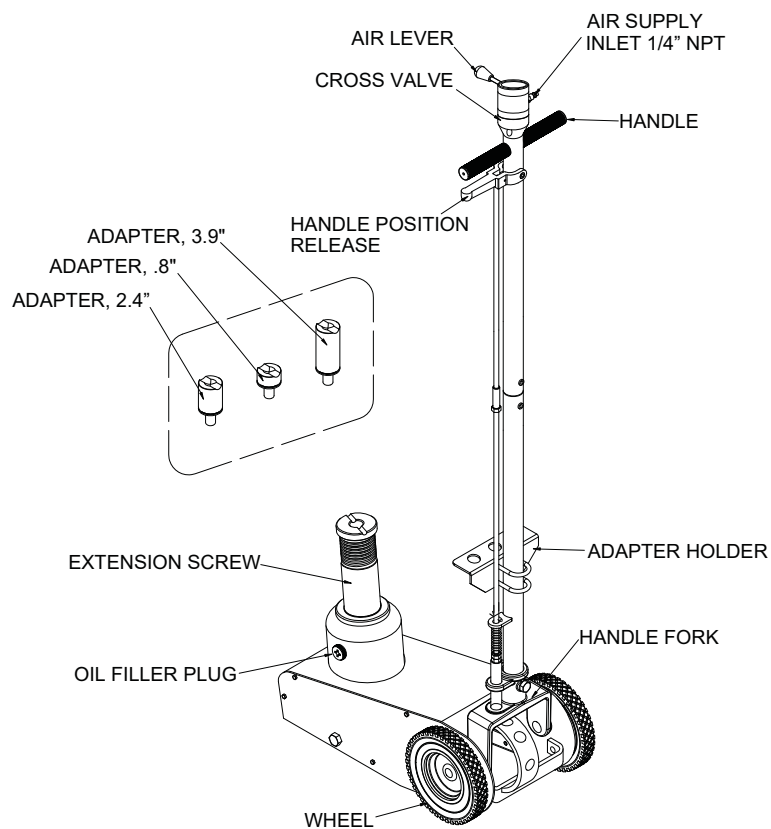


Figure 1 - Typical Truck Jack Nomenclature

## ! WARNING

- 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.
- Do not move or dolly the vehicle while on the jack.
- Lift only on areas of the vehicle as specified by the vehicle manufacturer.
- No alterations shall be made to this product.
- 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 or 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.



The wheels provided with this jack are for positioning the jack under a load **ONLY!** The wheels are **not** load wheels. Do not try to dolly or move the vehicle with the jack!

## OPERATION (see Fig 1)

### Lifting

**Note:** The jack is equipped with handle position lock. To adjust the handle, release lock device by pulling the lever up, lever is spring loaded and will lock into desired position. Ensure lever locking mechanism is fully engaged before lifting.

1. Connect adequate air source to the air supply inlet.
2. Follow the vehicle manufacturer's recommended guidelines for lifting. Engage the emergency brake and chock each unlifted wheel in both directions to prevent inadvertent vehicle movement.
3. Center jack saddle under lift point, then squeeze the lift control valve until saddle contacts the lift point. To lift, continue squeezing the lift control valve until load reaches desired height. Simply release your grip on the lift control valve to end lift event.
4. Transfer the load **immediately** to appropriately rated jack stands.



**WARNING:** Only attachments and/or adapters supplied by the manufacturer should be used. Lift only on area of the vehicle as specified by the vehicle manufacturer.



**WARNING: NEVER use hydraulic jack as a stand alone device! ALWAYS transfer the lifted load IMMEDIATELY to a pair of appropriately rated jack stands. Use one pair of jack stands per vehicle. Rated capacity is per pair only! Do not exceed rated capacity.**

### Lowering



**WARNING:** Be sure all tools and personnel are clear before lowering load.

1. Raise load high enough to clear the jack stands.
2. Remove jack stands carefully (**always used in pairs**).
3. Rotate the Cross Valve Air Lever to the left to lower the load. Your ATD-7328B is equipped with a speed limiting valve so the lowering speed is controlled automatically.
4. After removing jack from under the vehicle, fully retract the jack to reduce ram exposure to rust and contamination.

## MAINTENANCE

**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 premature failure of the jack and the potential for sudden and immediate loss of load. We recommend premium hydraulic oil or equivalent.

### Adding/Changing Oil

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

1. With Saddle fully lowered, remove Cover Plate (14), then remove the Oil Filler Plug (39).
2. Lay jack on its side and drain fluid into a suitable container.

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

3. Set jack in its upright, level position.
4. Fill with oil. Proper oil level is just below the rim of the opening. Reinstall the Oil Filler Plug (39).
5. Perform **Bleeding/Venting Trapped Air** procedure (page 4).

### Lubrication

A periodic coating of light lubricating oil to pivot points, axles and hinges will help to prevent rust and assure that wheels move freely and the pump functions smoothly. To help ensure trouble free operation, an inline air dryer and oiler is recommended.

### Cleaning

Periodically check the Ram for signs of rust or corrosion. Clean as needed and wipe with an oily cloth.

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

### Storage

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

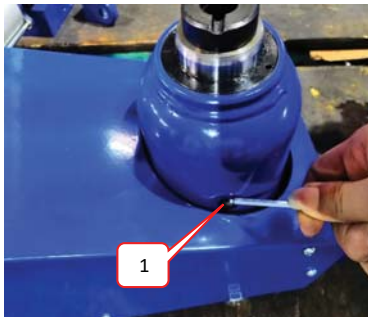
## TROUBLESHOOTING

Symptom	Possible Causes	Corrective Action
Jack will not lift	<ol style="list-style-type: none"><li>1. Release valve in wrong position</li><li>2. Air trapped in system</li><li>3. Weight capacity exceeded</li><li>4. Air supply inadequate</li><li>5. Hydraulic unit malfunction</li></ol>	<ol style="list-style-type: none"><li>1. Ensure the air lever is rotated to the right, the up position according to the label</li><li>2. Follow Bleeding/Venting Trapped Air procedure on page 4</li><li>3. Consider higher capacity jack</li><li>4. Ensure air supply adequate</li><li>5. Discontinue use and call ATD Tools Technical Service at 636-327-9050 for solution</li></ol>
Jack will lift, but cannot maintain pressure	<ol style="list-style-type: none"><li>1. Release valve malfunction</li><li>2. Hydraulic unit malfunction</li></ol>	<ol style="list-style-type: none"><li>1. Replace the Release Valve (57) (See page 8)</li><li>2. Discontinue use and call ATD Tools Technical Service at 636-327-9050 for solution</li></ol>
Jack will not lower after unloading	<ol style="list-style-type: none"><li>1. Oil reservoir is overfilled</li><li>2. Moving parts are stuck</li><li>3. Release valve malfunction</li></ol>	<ol style="list-style-type: none"><li>1. Drain excess fluid to proper level</li><li>2. Clean and lubricate the moving parts</li><li>3. Replace the Release Valve (57) (See page 8)</li></ol>
Poor lift performance	<ol style="list-style-type: none"><li>1. Low fluid level</li><li>2. Air trapped in system</li></ol>	<ol style="list-style-type: none"><li>1. Follow the Adding and Changing Oil procedure on page 6</li><li>2. Follow Bleeding/Venting Trapped Air procedure on page 4</li></ol>
Will not lift to full extension	<ol style="list-style-type: none"><li>1. Low fluid level</li></ol>	<ol style="list-style-type: none"><li>1. Follow adding and changing oil procedure on page 6</li></ol>

## Troubleshooting for ATD-7328B that will not go down


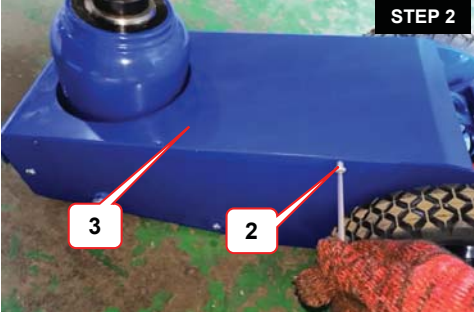
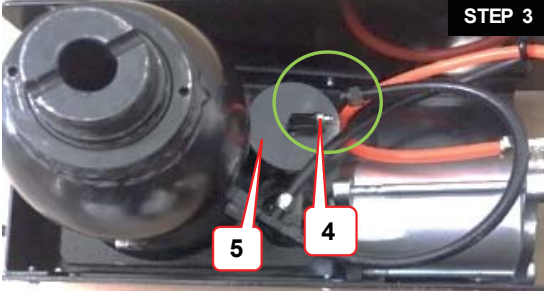

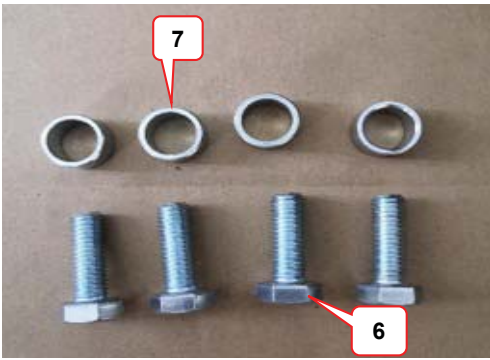
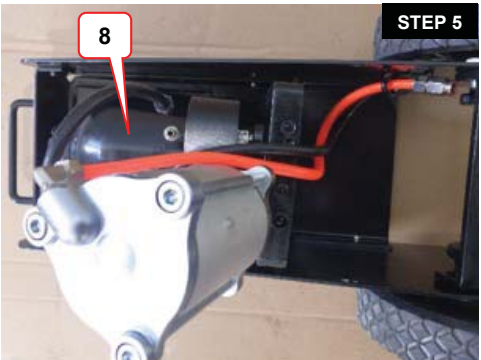
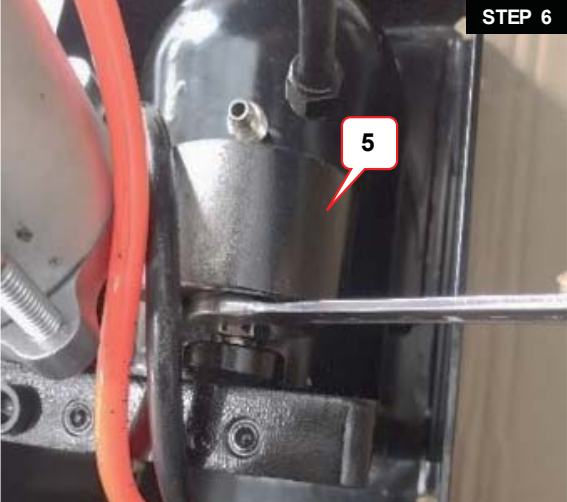

Problem: Ram will not go down					
	Symptom	Operating condition		Possible Cause	Corrective Action
		w/o Load	w/Load		
1	Ram can be lowered from the top, but will not retract to the lowest position.	✓		There is air in the pump	Bleed air (page 4)
2	Ram will not go down at any height, will not move at all	✓	✓	The air valve is not working. <b>Verification Method:</b> If handle is turned to "UP" position, air should blow from orange air hose of the valve; if handle is turned to "DOWN" position, air should blow from black air hose of the valve. Otherwise, the Air Valve is not working right.	Replace the entire Air Valve

## Air Bleeding Instructions For ATD-7328B that will not go down

<b>Problem:</b>	Ram will raise normally, but the release valve does not work and Ram cannot be lowered	
<b>Possible Cause:</b>	There is air in the pump.	
<b>Repair Instructions:</b>	<div style="display: flex; justify-content: space-between;"> <div> <p><b>Additional Information</b></p> <ol style="list-style-type: none"> <li>1. Lower the jack to the lowest position</li> <li>2. Open the oil filler plug (1) to let the air out</li> <li>3. Close the oil filler plug (1)</li> <li>4. Try lifting again.</li> </ol> </div> <div>  </div> </div>	



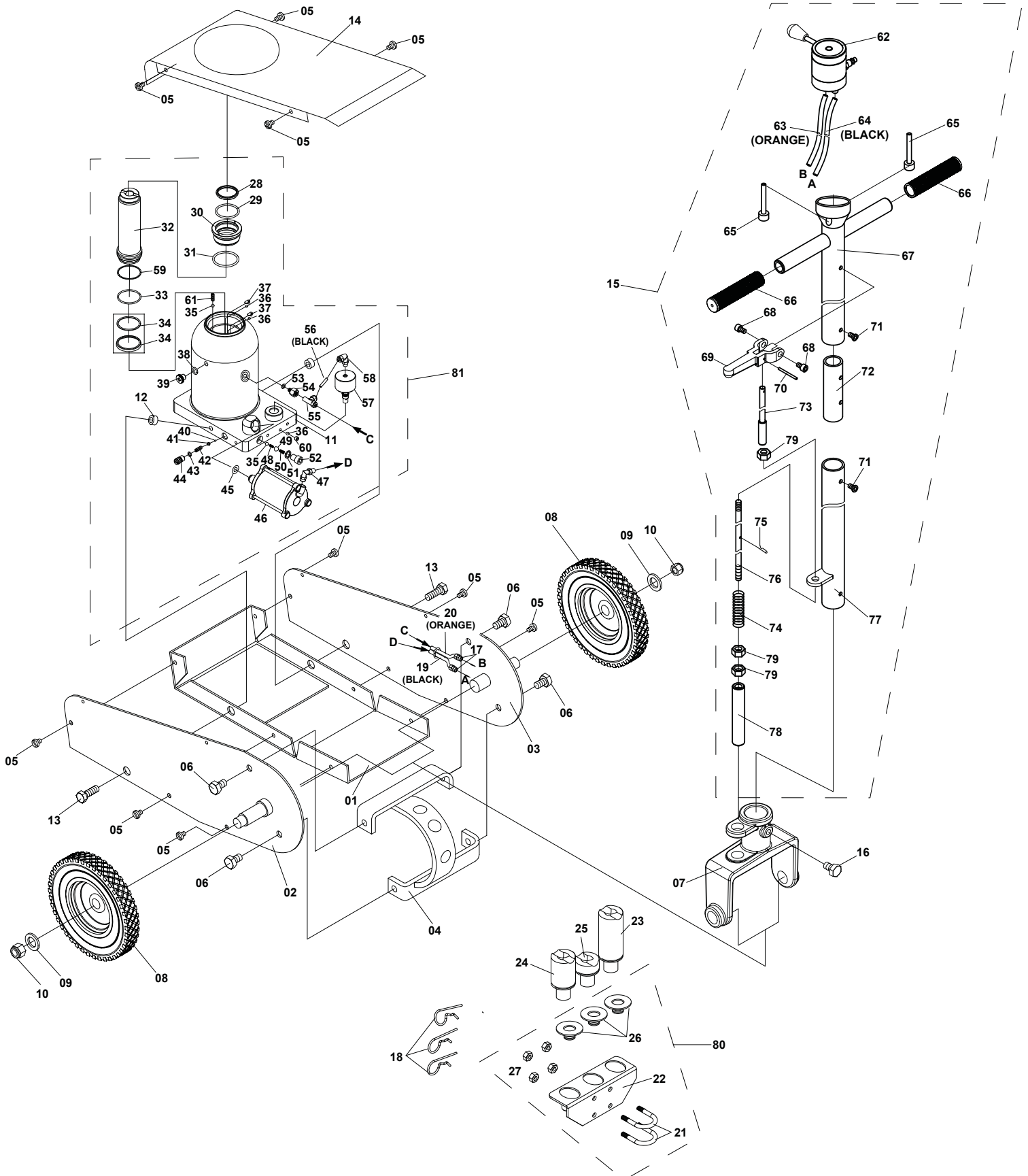
# Release Valve Replacement Instructions For ATD-7328B

<p><b>Issue:</b></p>	<p><b>Ram will raise normally, but the load cannot be lowered</b></p>
<p><b>Repair Instructions:</b> <b>Replace the Release Valve.</b></p>	<p><b>Tools Needed:</b> 4mm Allen Wrench    12mm Open End Wrench    24mm Open End Wrench</p>
<ol style="list-style-type: none"> <li>1. Lower the jack to the lowest position, open the Oil Filler Plug (1) to let air out for 10 seconds, then tighten the oil filler plug (1)</li> <li>2. Use a 4mm Allen wrench to remove the screws (2) and take off the Upper Cover (3)</li> <li>3. Remove the Air Hose on the quick-tightening joint (4) that attaches to the Release Valve (5) with 12mm wrench</li> <li>4. Remove the 4 Bolts (6) and the Fastening Nuts (7) on bottom of the Pump Assembly (8)</li> <li>5. Place the Pump Assembly (8) on its side with Air Motor facing up. Remove the Release Valve (5) with a 24mm wrench</li> <li>6. Take out the Release Valve (5) and replace it with a new one</li> <li>7. Reinstall the Release Valve (5) with a 24mm wrench, put back the Pump Assembly and tighten with Bolts (6) and Nuts (7). Connect the Air Hose back to the quick-tightening joint (4) and reassemble the Upper Cover (3)</li> </ol>	<div> <div>  <p>STEP 1</p> </div> <div>  <p>STEP 2</p> </div> <div>  <p>STEP 3</p> </div> <div>  <p>STEP 4</p> </div> <div>  </div> <div>  <p>STEP 5</p> </div> <div>  <p>STEP 6</p> </div> <div>  </div> </div>

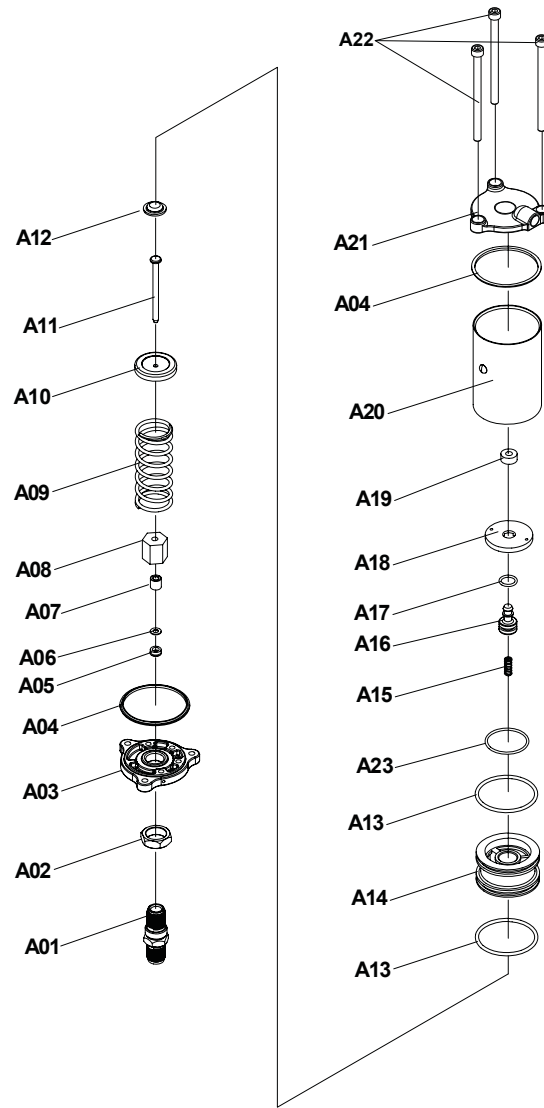


# REPLACEMENT PARTS

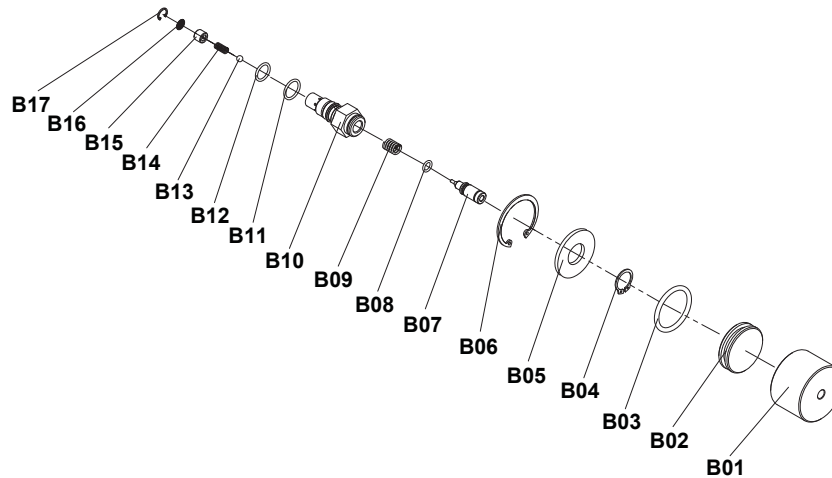
Not all components of this product are replacement items, but are illustrated as a convenient reference for position in the assembly sequence. When ordering parts, give model number, part number and description. Call your distributor for current pricing:



## Air Motor Breakdown



## Release Valve Breakdown



ITEM#	ORDERING PART#	PART DESCRIPTION	QTY
1	-	BASE	1
2	-	LEFT SIDE PLATE	1
3	-	RIGHT SIDE PLATE	1
4	-	HANDLE SEAT ASSY	1
5	-	BOLT	10
6	-	BOLT	4
7	-	HANDLE FORK	1
8	PRT7328B-08	WHEEL	2
9	-	FLAT WASHER	2
10	-	NUT	2
11	-	PUMP ASSY	1
12	PRT7328B-SK	WASHER	2
13	-	BOLT	2
14	PRT7328B-14	COVER PLATE	1
15	PRT7328B-15	HANDLE ASSEMBLY COMPLETE	1
16	-	SCREW	1
17	PRT7328B-17	AIR HOSE FITTING	2
18	-	R-PIN	3
19	PRT7328B-19	AIR MOTOR SUPPLY HOSE (BLACK)	1
20	PRT7328B-20	AIR MOTOR SUPPLY HOSE (ORANGE)	1
21	-	U-BOLT	2
22	-	BRACKET	1
23	-	ADAPTER - 3.9"	1
24	-	ADAPTER - 2.4"	1
25	-	ADAPTER - .8"	1
26	-	ADAPTER COVER	3
27	-	NUT	4

ITEM#	ORDERING PART#	PART DESCRIPTION	QTY
A01	-	PUMP CORE SEAT	1
A02	-	ROUND NUT	1
A03	-	CYLINDER SEAT	1
A04	PRT7328B-SK	NYLON RING	2
A05	PRT7328B-SK	U-RING	1
A06	PRT7328B-SK	NYLON RING	1
A07	PRT7328B-SK	COPPER RING	1
A08	-	ROUND NUT 2	1
A09	-	SPRING	1
A10	-	CAP	1
A11	-	AIR PUMP CORE	1
A12	-	CAP	1

ITEM#	ORDERING PART#	PART DESCRIPTION	QTY
28	PRT7328B-SK	DUST PREVENTION RING	1
29	PRT7328B-SK	O-RING	1
30	-	LIMIT RING	1
31	PRT7328B-SK	O-RING	1
32	-	PISTON ROD	1
33	PRT7328B-SK	O-RING	1
34	PRT7328B-SK	U-RING	1
35	-	STEEL BALL	2
36	-	STEEL BALL	3
37	-	STOP BLADE	2
38	PRT7328B-SK	O-RING	1
39	PRT7328B-SK	OIL PLUG	1
40	-	STEEL BALL	1
41	-	BALL SEAT	1
42	-	SPRING	1
43	-	O-RING	1
44	-	SCREW	1
45	PRT7328B-SK	COPPER WASHER	1
46	PRT7328B-46	AIR PUMP	1
47	PRT7328B-47	COUPLER	1
48	-	SPRING	1
49	-	STEEL BALL	1
50	-	SPRING	1
51	PRT7328B-SK	COPPER WASHER	1
52	-	SCREW	1
53	PRT7328B-SK	SEAL RING	1
54	-	CONNECTOR SEAT	1

ITEM#	ORDERING PART#	PART DESCRIPTION	QTY
A13	-	O-RING	2
A14	PRT7328B-SK	PISTON	1
A15	-	SPRING	1
A16	-	PISTON	1
A17	PRT7328B-SK	O-RING	1
A18	-	PISTON CAP	1
A19	PRT7328B-SK	SEAL RING	1
A20	-	CYLINDER	1
A21	-	CYLINDER CAP	1
A22	-	SCREW	3
A23	PRT7328B-SK	O-RING	1

ITEM#	ORDERING PART#	PART DESCRIPTION	QTY
55	PRT7328B-55	COUPLER	1
56	PRT7328B-56	POLYURETHANE HOSE (BLACK)	1
57	PRT7328B-57	RELEASE VALVE	1
58	PRT7328B-58	COUPLER	1
59	PRT7328B-SK	NYLON RING	1
60	-	SCREW	1
61	-	SPRING	1
62	PRT7328B-62	CROSS VALVE & AIR LEVER	1
63	PRT7328B-63	AIR MOTOR SUPPLY HOSE (ORANGE)	1
64	PRT7328B-64	AIR MOTOR SUPPLY HOSE (BLACK)	1
65	-	SCREW	2
66	-	HANDLE GRIP	2
67	-	UPPER HANDLE	1
68	-	SCREW	2
69	-	HANDLE	1
70	-	PIN	1
71	-	SCREW	2
72	-	HANDLE CONNECTOR	1
73	-	UPPER TIE ROD	1
74	-	SPRING	1
75	-	R-PIN	1
76	-	LOWER TIE ROD	1
77	-	LOWER HANDLE	1
78	-	SLOTTED ROD	1
79	-	NUT	3
80	-	BRACKET ASSY	1
81	PRT7328B-81	HYDRAULIC UNIT W/AIR MOTOR	1

ITEM#	ORDERING PART#	PART DESCRIPTION	QTY
B01	-	RELEASE CYLINDER	1
B02	-	RAM	1
B03	PRT7328B-SK	O-RING	1
B04	-	CIRCLIP	1
B05	-	WASHER	1
B06	-	CIRCLIP	1
B07	-	RELEASE VALVE ROD/PIN	1
B08	PRT7328B-SK	O-RING	1
B09	-	SPRING	1
B10	-	SEAT	1
B11	PRT7328B-SK	O-RING	1
B12	PRT7328B-SK	O-RING	1
B13	-	STEEL BALL	1
B14	-	SPRING	1
B15	-	VALVE CORE	1
B16	-	FILTER	1
B17	-	CIRCLIP	1

\* PRT7328B-SK Includes: 12, 28, 29, 31, 33, 34, 38, 39, 45, 51, 53, 59, A04, A05, A06, A07, A14, A17, A19, A23, B03, B08, B11 & B12



## 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-7328B 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]