

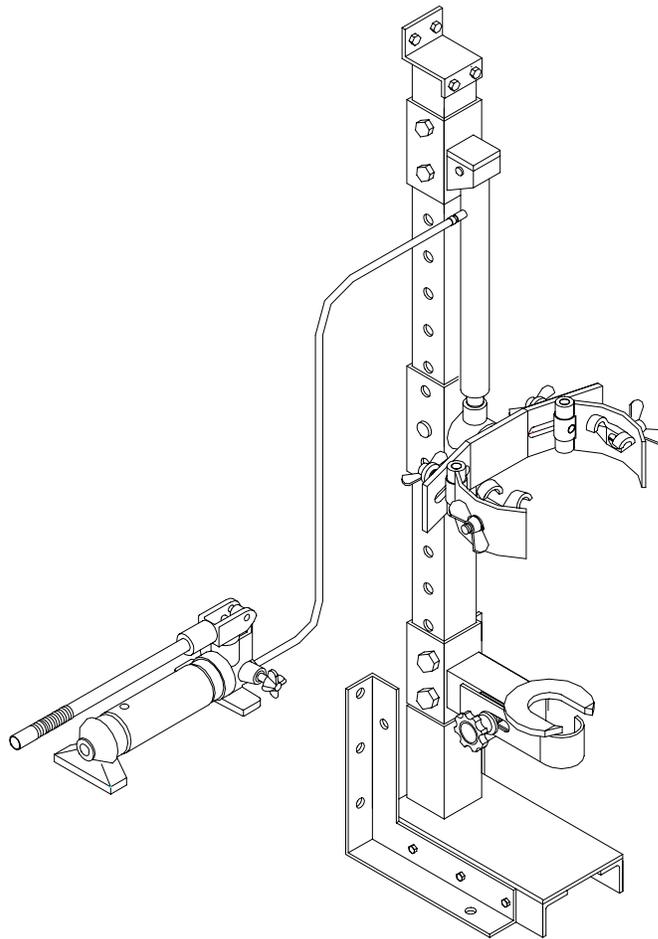


# ***Strut Spring Compressor***

## ***Operating Instruction & Parts Manual***

***Model Number***

***Atd-7553***



Model Atd-7553

*Atd Tools Inc.  
114 I-70 Trade Center Drive, St. Peters, MO 63376*

Printed in Taiwan

**Save these instructions.** For your safety, read and understand the information contained within. The owner and operator shall have an understanding of this product and safe operating procedures before attempting to use this product. Instructions and Safety information shall be conveyed in the operators native language before use of this product is authorized. Make certain that the operator thoroughly understands the inherent dangers associated with the use and misuse of the product. If any doubt exists as to the safe and proper use of this product as outlined in this factory authorized manual, remove from service until which time it is clear. **Inspect before each use.** Do not use if broken, bent, cracked or otherwise damaged parts are noted. If the product has been or suspected to have been subjected to a shock load, discontinue use until checked out by an authorized factory service center. Owners and operators of this equipment shall be aware that the use and subsequent repair of this equipment may require special training and knowledge. It is recommended that an annual inspection be done by qualified personnel and that any missing or damaged parts, decals, warning / safety labels or signs be replaced with factory authorized replacement parts only. If this product appears to be damaged in any way, is worn or operated abnormally should be removed from service immediately until such time as repairs can be made.

### PRODUCT DESCRIPTION

Atd Tools Heavy Duty Strut Spring Compressor Model Atd-7553 is designed as an aid in safely replacing strut springs.

### SPECIFICATIONS

Model	Product Size ( L X W X H )	Recommended Strut Spring Dia.	Max. Working Space	Hydraulic Stroke
Atd-7553	12 1/4" X 11 7/8" X 52 5/8"	4" ~ 10"	15 1/2"	10" (14 ¼ Max. ~ 4 ¼ Min.)

### BEFORE USE

**Note: Never service strut spring compressor while in use.**

1. Familiarize yourself with this tool and the hazards associated with its improper use.
2. Always refer to and have available a credible service manual covering the year, make and model of the vehicle being serviced. Follow manufacturer's guidelines for strut removal, service and installation procedures.
3. Inspect before each use. **DO NOT USE** if bent, broken, cracked or leaking parts are noted. Repair or replace with factory authorized components only.
4. No alteration of this device is permitted.

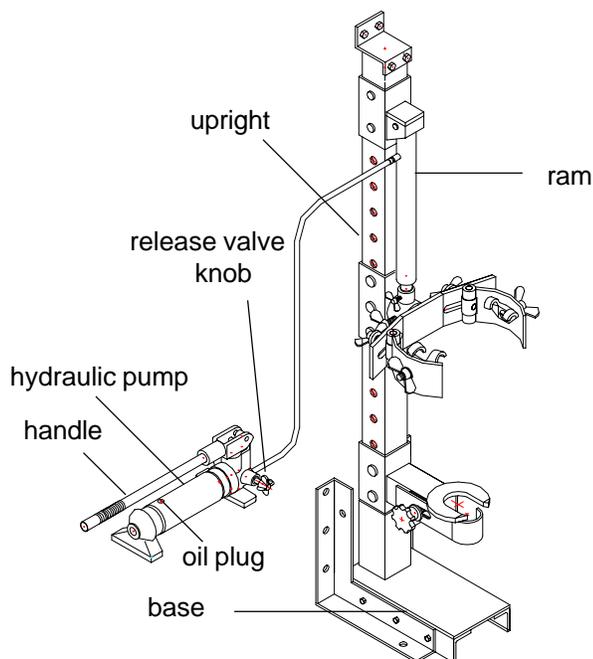


Figure 1 - Model Atd-7553 Nomenclature



**READ AND UNDERSTAND ALL PRINTED MATERIALS PROVIDED WITH AND ON THIS DEVICE. ENSURE WORKPIECE IS COMPATIBLE WITH AND IS SECURELY FASTENED IN COMPRESSOR FIXTURE. ONLY COMPRESS**

**SPRING SUFFICIENTLY TO REMOVE RETAINING NUT AND HARDWARE. KEEP FEET AND HANDS FROM LOADING AREA. NEVER LEAVE LOADED SPRING COMPRESSOR UNATTENDED. ENSURE THE USER IS THOROUGHLY FAMILIAR WITH THE CONTROLS AND OPERATIONAL CHARACTERISTICS OF THIS PRODUCT AND IS AWARE OF THE POTENTIAL HAZARDS ASSOCIATED WITH ITS USE. ALWAYS WEAR SAFETY GLASSES WHEN USING. USE ONLY ON HARD LEVEL SURFACES. DO NOT USE THIS DEVICE FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS INTENDED. FAILURE TO HEED THESE WARNINGS MAY RESULT IN FATAL INJURY AND/OR PROPERTY DAMAGE.**

**NOTE: WALL MOUNT IS NOT FOR USE ON WOODEN STUDS, SHEET ROCK OR SIMILAR MATERIALS.**

3. Slide Strut Spring Channel (#18) onto Upright. Attach Spring Clasp Bracket (#22) to Strut Spring Channel and secure in horizontal position with Bolt (#8). Attach Spring Clasp Holder (#23) to Bracket using Wing Nuts (#19), Washers (#30) and Springs (#21). Attach Spring Clasps (#24) to Holders using Bolts (#25), Washers (#30) and Wing Nuts (#19).
4. Attach Ram Bracket (#3) to Upright using 2 Bolts (#31) and 2 Nuts (#32).
5. Attach Upper Wall Bracket (#11) to top of Upright using 2 Bolts (#12).
6. Attach Ram Plunger (#1) to Bracket using Ram Position Pin (#6), Washer (#9) and Spring Clip (#4). Insert Ram Piston into Strut Spring Channel (#18) and tighten using Bolt (#17).

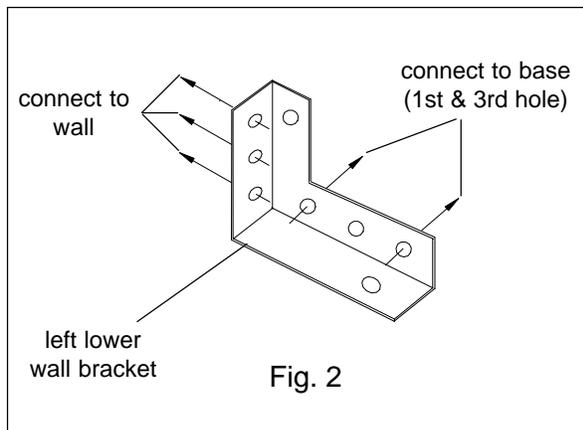
**Note: Hardware needed to secure product to wall is not included.**

## ASSEMBLY

(please refer fig. 7 on page 7)

### A. For beam mount

1. Attach Lower Wall Brackets (#14 & #16) to Upright (#13) using 4 Bolts (#15), 8 Washers (#20) and 4 Nuts (#26). Please refer fig. 2.

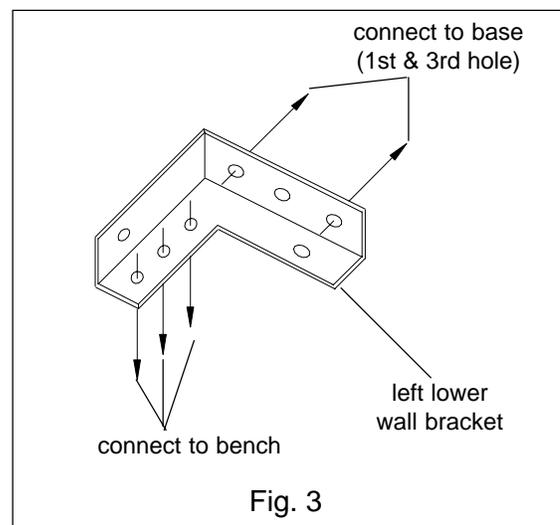


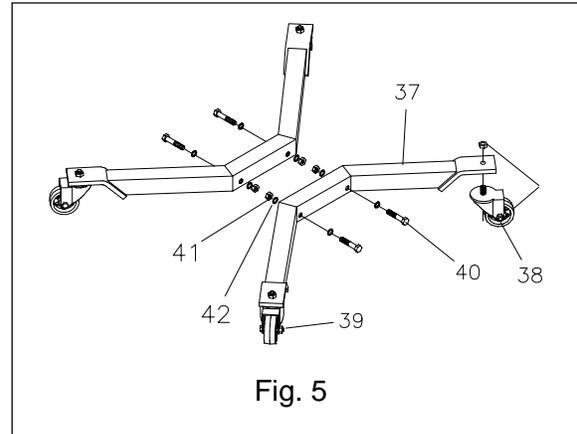
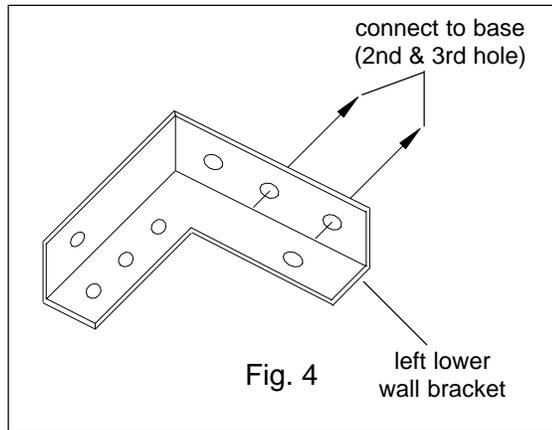
2. Slide Strut Support (#7) onto Upright. Secure in lowest possible position using 2 Bolts (#31) and 2 Nuts (#32). Attach "L" Bracket (#29), Adjustable Strut Shaft Clasp (#10) and Washer (#28) to Strut Support using Knob (#27).

### B. For bench or floor mount

1. Attach Lower Wall Brackets (#14 & #16) to Upright (#13) using 4 Bolts (#15), 8 Washers (#20) and 4 Nuts (#26), please refer fig. 3 (for bench) or fig. 4 (for floor).

**Note: Bench table must be minimum 3/4" thickness if hardwood or pressboard is used.**





2. Slide Strut Support (#7) onto Upright. Secure in lowest possible position using 2 Bolts (#31) and 2 Nuts (#32). Attach "L" Bracket (#29), Adjustable Strut Shaft Clasp (#10) and Washer (#28) to Strut Support using Knob (#27).
3. Slide Strut Spring Channel (#18) onto Upright. Attach Spring Clasp Bracket (#22) to Strut Spring Channel and secure in horizontal position with Bolt (#8). Attach Spring Clasp Holder (#23) to Bracket using Wing Nuts (#19), Washers (#30) and Springs (#21). Attach Spring Clasps (#24) to Holders using Bolts (#25), Washers (#30) and Wing Nuts (#19).
4. Attach Ram Bracket (#3) to Upright using 2 Bolts (#31) and 2 Nuts (#32).
5. Attach Ram Plunger (#1) to Bracket using Ram Position Pin (#6), Washer (#9) and Spring Clip (#4). Insert Ram Piston into Strut Spring Channel (#18) and tighten using Bolt (#17).

**Note: Hardware needed to secure product to beam is not included.**

### C. Support leg option

1. Attach each Support Leg (#37) to Upright (#13) using 4 Bolts (#40), 4 Nuts (#41) and 8 Washers (#42), please refer fig. 5 & 7.

**Note: Do not attach lower wall brackets with support leg option.**

2. Slide Strut Support (#7) onto Upright. Secure in lowest possible position using 2 Bolts (#31) and 2 Nuts (#32). Attach "L" Bracket (#29), Adjustable Strut Shaft Clasp (#10) and Washer (#28) to Strut Support using Knob (#27).
3. Slide Strut Spring Channel (#18) onto Upright. Attach Spring Clasp Bracket (#22) to Strut Spring Channel and secure in horizontal position with Bolt (#8). Attach Spring Clasp Holder (#23) to Bracket using Wing Nuts (#19), Washers (#30) and Springs (#21). Attach Spring Clasps (#24) to Holders using Bolts (#25), Washers (#30) and Wing Nuts (#19).
4. Attach Ram Bracket (#3) to Upright using 2 Bolts (#31) and 2 Nuts (#32).
5. Attach Ram Plunger (#1) to Bracket using Ram Position Pin (#6), Washer (#9) and Spring Clip (#4). Insert Ram Piston into Strut Spring Channel (#18) and tighten using Bolt (#17).

## OWNER/USER RESPONSIBILITY

The owner and/or user must have an understanding of the manufacturer's operating instructions and warnings before using this equipment. Personnel involved in the use and operation of this device shall be careful, competent, trained, and qualified in the safe operation of the equipment and its intended use. Warning information must be emphasized and understood. If the operator is not fluent in English, the manufacturer's instructions and warnings shall be read to and discussed with the operator in the operator's native language by the owner/purchaser, making certain that the operator comprehends its contents. It is recommended that an annual inspection of the product be made by a factory authorized repair facility. It is owner's/user's responsibility to ensure that product label and instructional material is legible and accessible. Replacement labels and manuals are available from the manufacturer.

**Note: Before using, apply a light coating of bearing grease to mid-section of upright.**

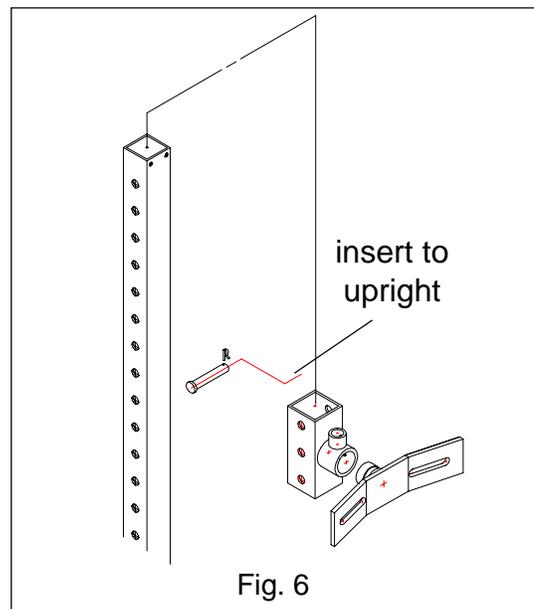
## OPERATING INSTRUCTIONS

1. Secure base of strut in compressor fixture by adjustable strut shaft clasp.
2. Secure spring with claw assembly.
3. Pump to compress spring.
4. Install safety bar in upright directly above strut spring channel (please refer fig. 6 ).
5. Remove nut and retainer cup assembly.
6. Decompress spring and remove.
7. Replace damaged components.
8. Install spring and compress.
9. Install retainer cup assembly and nut.

10. Tighten retainer nut.
11. Remove safety bar from operation step #4 position. Reposition to near top of upright channel.
12. Decompress spring and remove strut assembly from fixture.

## MAINTENANCE

Lubrication of upright is required in normal service. If service environment has a history of producing rust, it may be necessary to coat all exposed surfaces with a light machine oil. DO NOT allow lubricant to contact claw assemblies nor strut springs. IF SO, clean and dry thoroughly before use in the spring compressor.



## TROUBLESHOOTING

Symptom	Possible Causes	Corrective Action
Ram will not extend	Release valve not tightly closed Overload condition	Ensure release valve tightly closed Remedy overload condition
Ram bleeds off	Release valve not tightly closed Overload condition Hydraulic unit malfunction	Ensure release valve tightly closed Remedy overload condition Contact Atd Tools Tech. Service
Ram will not retract after unloading	Reservoir overfilled Linkages binding	Drain fluid to proper level Clean and lubricate moving parts
Poor performance	Fluid level low Air trapped in system	Ensure proper fluid level With ram fully retracted, remove oil filler plug to let pressurized air escape, reinstall oil filler plug
Will not extend to full extension	Fluid level low	Ensure proper fluid level

## 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, or which fails to conform to any implied warranty not excluded hereby.

Performance of any obligation under this warranty may be obtained by returning the warranted product, freight prepaid, to **Atd Tools Inc.** Warranty Service Department, 114 I-70 Trade Center Drive, St. Peters, MO 63376.

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, and (2) **Atd Tools Inc.** SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGE OR LOSS WHATSOEVER, and (3) THE DURATION OF ANY AND ALL EXPRESSED AND IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IS LIMITED TO A PERIOD OF ONE (1) YEAR FROM DATE OF PURCHASE.

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.

## REPLACEMENT PARTS

When ordering replacement parts, please refer to the model number / serial number found on the product, then give the part number and description.

Available Parts: Please refer to the Parts drawing when ordering 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, serial number and description below. Call or write for current pricing:

Atd Tools Inc. 114 I-70 Trade Center Drive, St. Peters, MO 63376 Tel:(636)272-9050 Fax:(636)272-9044

Model Atd-7553

<u>Parts No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Parts No.</u>	<u>Description</u>	<u>Quantity</u>
1	ram plunger	1	22	spring clasp bracket	1
2	hydraulic pump	1	23	spring clasp holder	2
3	ram bracket	1	24	spring clasp / claw	2
4	spring clip	2	25	screw 1/2" - 12 UNC x 1/2"	2
5	bracket pin D15.8 x 96	1	26	nut W1/2 x 12 UNC	4
6	ram position pin D10 x 76	1	27	knob	1
7	strut support	1	28	washer D31 x D16.2 x 4T	1
8	bolt M10 x 1.5 x 10L	1	29	" L " Bracket	1
9	washer D20 x D10.4 x 1.2	1	30	washer D30 x D13 x 5T	6
10	adjustable strut shaft clasp	1	31	bolt - M16 x P2 x 90L	4
11	wall bracket - upper	1	32	nut - M16 x P2	4
12	bolt M10 x 1.5 x 16L	2	36	leg assy. ( for option only)	1
13	upright	1	37	support leg	2
14	wall bracket - lower left	1	38	swivel wheel assy.	2
15	bolt 1/2" - 12UNC x 1 1/4"	4	39	swivel wheel assy.	2
16	wall bracket - lower right	1	40	bolt	4
17	bolt - M8 x 1.25P x 15L	1	41	nut - nylon	4
18	strut spring channel	1	42	washer	8
19	wing nut 1/2" - 12 UNC	4	43	label(s) (not shown)	1
20	washer D24 x D13 x 2.5T	8	44	manual (OIPM# 90000-01)	1
21	spring D18 x D2 x D15	2			

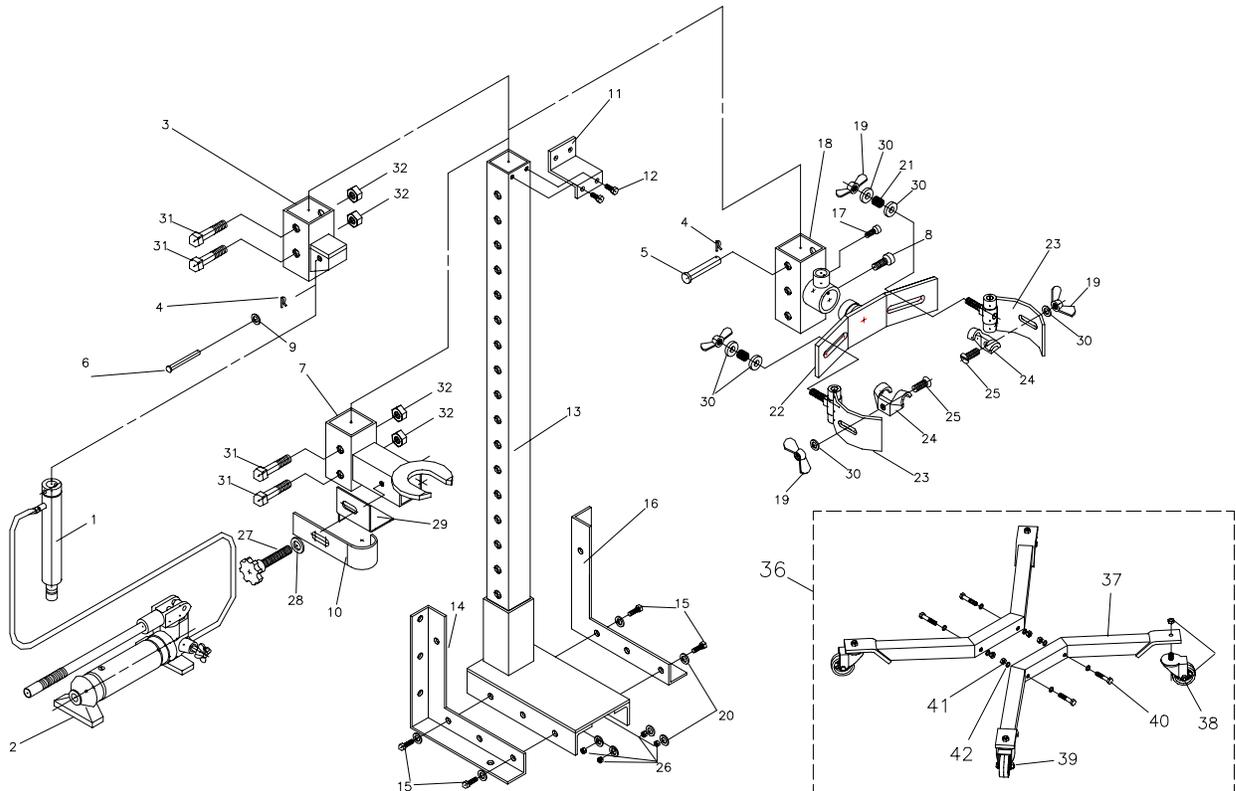


Figure 7 - Replacement Parts Illustration for Model Atd-7553

