ATD-7396A
10-Ton Air/Hydraulic Long Chassis Service Jack
Owner's Manual

Specifications

• Capacity:	10-Ton
• Min. Height:	6.30" (160 mm)
• Max. Height:	26.96" (685 mm)
• Handle Length:	45.28" (1150.11mm)
• Saddle Diameter:	5.91" (150.11mm)
• Size:	70.63" x 18.90" x 9.84" (1794 x 480.06 x 249.93mm)
• Net Weight:	315.26 lbs. (143kg)

Features:

- Designed for heavy-duty lifting applications
- Welded pump for increased strength
- Chrome plated ram with wiper seals for superior leak protection
- Convenient foot pedal for no load lifts
- Handle can be locked in 3 positions
- Roller bearing wheels and ball bearing casters
- Overload and bypass safety valves
- Meets ANSI/ASME PALD 2014 and CE standards

NOTE: BEFORE USING THIS JACK, PLEASE READ THIS MANUAL, UNDERSTAND ITS OPERATING PROCEDURES, SAFETY WARNINGS AND MAINTENANCE INSTRUCTIONS.

Carefully inspect all components for shipping damage. If shipping damage is found, notify carrier at once. The carrier is responsible for any damage resulting from shipment.

1. SAFETY

To avoid personal injury or property damage, follow all safety precautions. We cannot be responsible for injury or damage resulting from unsafe and incorrect product use, system operation, or lack of maintenance.

WARNING indicates a potential danger that requires correct action to avoid personal injury.

IMPORTANT indicates correct action to prevent damage or equipment failure.

WARNING:

- The hydraulic equipment operator must be a qualified operator with proper training and experience with hydraulic equipment. Lack of knowledge in any of these areas can lead to equipment damage or personal injury.
- Read, understand, and follow all instructions before operating this jack.
- Inspect the jack before each use. Do not use jack if damaged, altered, modified, leaking hydraulic fluid or with missing or loose components.
- To avoid personal injury, never modify or weld hydraulic equipment.
- Never lift more than the rated capacity of the jack, overloading causes equipment failure and possible personal injury.
- The jack is a load lifting device, not a load holding device. Once the load has been positioned, it must be supported mechanically. Never work under, or around a load solely supported by hydraulic means.
- Never put unbalanced or off-center loads on the jack saddle. Do not use saddle adapters or saddle extenders between the stock lifting saddle and the load. incorrect loading can result in equipment failure.
- Do not move or dolly the vehicle while on the jack.
- Always wear safety glasses and/or other protective equipment that meet or exceed ANSI Z87.1 and OSHA standards.
- Use the jack ONLY on hard, level surfaces capable of sustaining the load.

IMPORTANT

- Keep the hydraulic jack clean at all time.
- When the hydraulic jack is not in use, release the valve and lower lift arm.
- Use hydraulic equipment in normal operating temperatures. Do not use equipment in temperatures of 150°F (65° C) or higher. Overheating will soften seals and weakens hose material, resulting in oil leaking or other equipment failure.

2. DESCRIPTION

The hydraulic jacks are designed for fleet truck shops, farm equipment dealers, bus company garages.

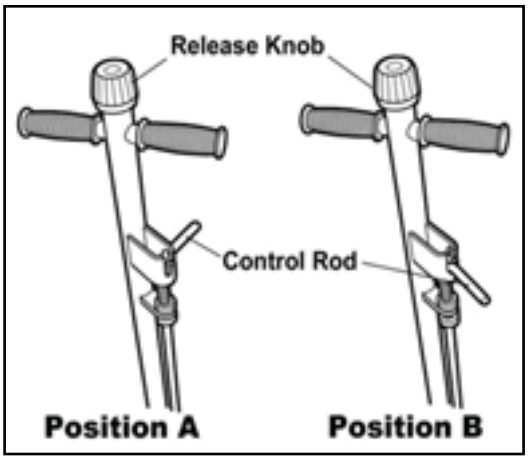
3. SPECIFICATIONS

• Capacity (Ton):	10-Ton
• Lifting Range:	6.30” - 26.97" (160mm-685mm)
• Handle Length:	45.28" (1150mm)
• Saddle Diameter:	5.91" (150.11mm)
• Size:	70.63” x 18.90” x 9.84” (1794 x 480 x 250mm)
• Weight (lbs.):	315.26 lbs. (143kg)
• Air Pressure:	101-145 psi

3-1. SETUP
PLEASE REFER TO THE EXPLODED VIEW DRAWING IN THIS MANUAL IN ORDER TO IDENTIFY PARTS.

1. Loosen the bolt #61 on the handle socket #57.
2. Install the handle assembly #62 in the handle socket #57; please align the main handle tube with the largest hole in the handle socket and the Control Rod with the smaller hole in the handle socket. When you install the handle in the socket, make sure the Control Rod is in the down/lock position (position B).
3. Once the main handle tube and Control Rod are aligned with their respective holes in the handle socket, push the handle assembly in the handle socket so the end of the handle tube engages the release valve mechanism in the bottom of the handle socket and the Control Rod engages one of the three (3) locking holes in the jack frame.
4. Disengage the Control Rod by pulling up on the lever (Position A) and engaging the lever with the slot in top of the handle assembly. The handle assembly should be free to pump up and down.

IMPORTANT
After handle assembly into the handle socket, turn the release valve knob at the top of the handle left and right to see if the release valve u-joint in front and below the handle socket is rotating simultaneously with the turning of the knob.



4. BLEEDING AIR
Before Use: Air may accumulate within a jack during shipment or after prolonged use; this air can cause the jack to respond "weak" or not work. Use the instructions below to bleed the air from the jack:

4-1. With saddle fully lowered, locate and remove the oil filler plug/screw. Pump handle 6 to 8 full strokes. Ensure the oil level is within 3/16" from the inner cylinder as viewed from the oil filler hole. Reinstall the oil filler plug/screw. Close release valve by turning the handle clockwise until firm resistance is felt.

4-2. Close the release valve knob by turning it in a clockwise direction until it stops. Depress the air valve lever about 10 times and hold it down on the last depression. If the jack's lift arm will not rise, repeat steps 1 and 2 again.

4-3. If depressing the air valve will not raise the lift arm, close the release valve knob by turning it clockwise until it stops. Depress the foot pedal to raise the lift arm to its maximum height. Depress the air valve while quickly turning the release valve 2 to 3 revolutions in a counterclockwise direction. The lift arm should lower rapidly. Close the release valve knob by turning it clockwise direction until it stops. Depress the air valve to see if lift arm will rise. If not, repeat step 3 several times to achieve maximum performance.

5. OPERATING INSTRUCTIONS (Refer to illustrations above)
Control rod in Position A: Allows you to pump the jack using the handle.
Control rod in Position B: Locks the handle in place in three different positions.

5-1. Connect the shop air supply to the jack. (Shop air should be clean, dry, and regulated at 101-145 psi.)
5-2. Turn release knob completely counterclockwise, and place the control rod in Position A.
5-3. Position the jack under the vehicle using the manufacturer's recommended lifting points on the chassis. The jack must be free to roll without any obstructions while lifting or lowering the venire. The wheels of the vehicle must be in the straight-ahead position, with the emergency brake released.
5-4. Turn the release knob on the jack completely clockwise Operate the air valve, pump the jack handle. Or pump the foot pedal until the saddle touches the vehicle. Check the placement of the saddle lugs. Finish lifting the vehicle.
5-5. Place approved safety stands under the vehicle at points that will provide stable support Before working on the vehicle, SLOWLY lower the vehicle onto the safety stands by turning the release knob counterclockwise.

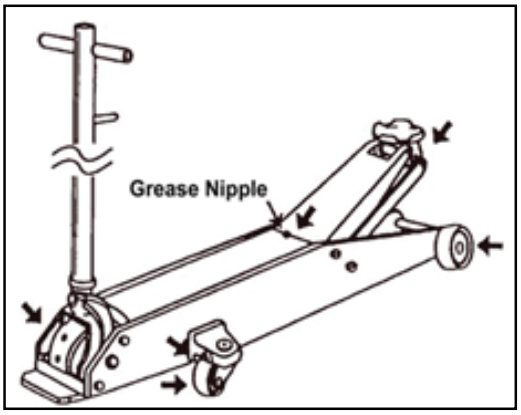
6. MAINTENANCE

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

- Store the jack in a well-protected area where it will not be exposed to corrosive vapors, abrasive dust, or any other harmful elements.
- Refer to the illustration, and regularly (at least once per month) lubricate the moving parts shown.
- Add grease to upper arm grease nipple (shown) every three months.
- If necessary, add approved anti-wear hydraulic jack oil. IMPORTANT: The use of alcohol, hydraulic brake fluid, detergent motor oil, or transmission oil could damage the seals and result in jack failure.
- 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. Loose hardware
f. Modified or altered equipment

IMPORTANT: Do not adjust the safety valve screw assembly (#47, H, I, J & K on the parts drawing).

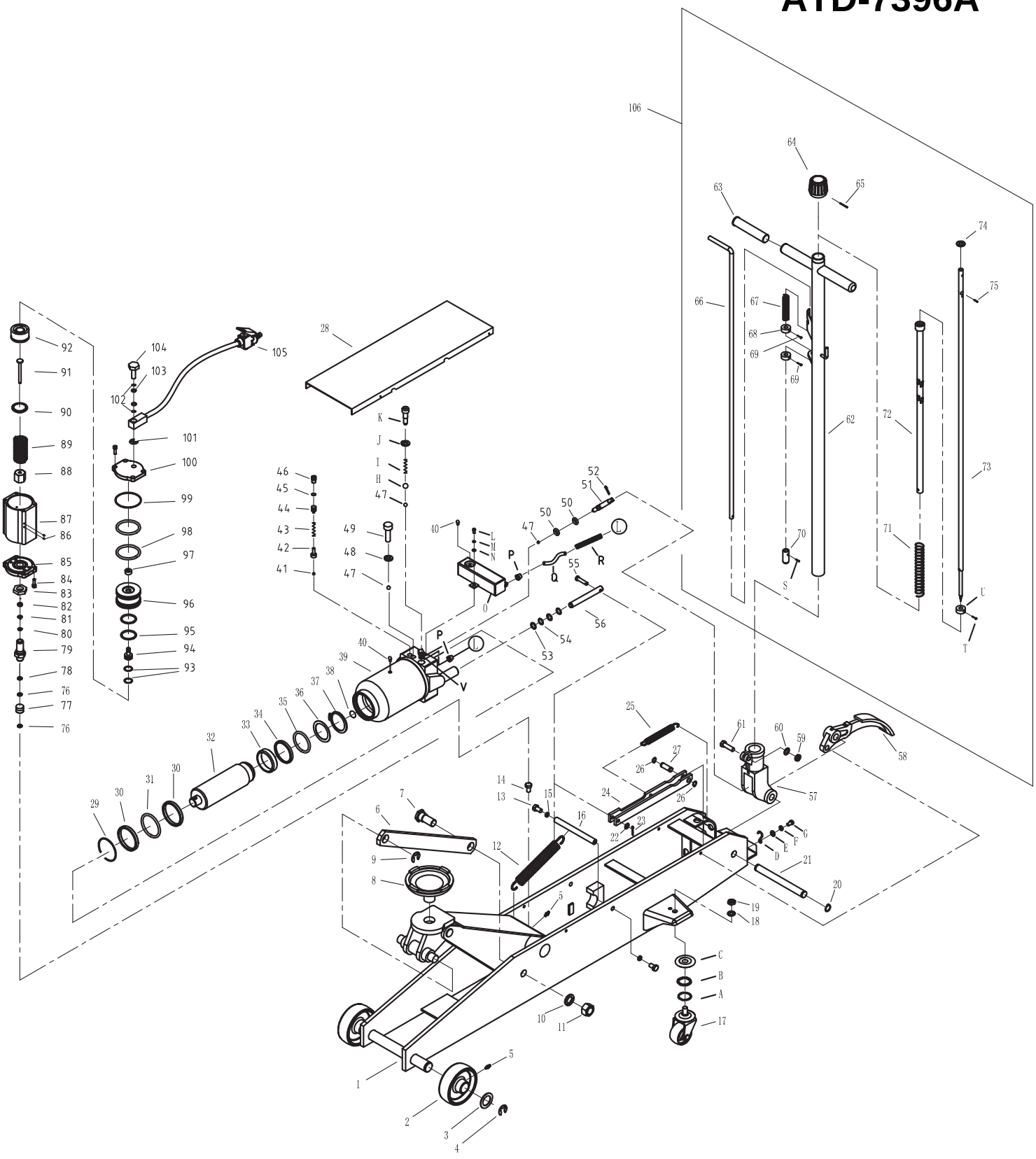


7. TROUBLESHOOTING

Repair procedures must be performed in a dirt-free environment by qualified personnel who are familiar with this equipment.

Trouble	Cause	Solution
Jack does not lift	1. Release valve is open.	1. Close release valve.
	2. Low/no oil in reservoir.	2. Fill with Oil and bleed system.
	3. Air-locked system.	3. Bleed system.
	4. Load is above capacity of jack.	4. Use correct equipment
	5. Delivery valve and/or bypass valve not working correctly.	5. Clean to remove dirt or foreign matter.
	6. Packing worn out or defective.	6. Install seal kit
	7. Leak in airline.	7. Locate leak, tighten connections or replace hose.
	8. Inadequate air pressure.	8. Set air pressure to 101-145psi
Jack lifts only partially	1. Too much or not enough oil.	1. Check Oil level
Jack advances slowly	1. Pump not working correctly.	1. Install seal kit, or replace power unit.
Jack lifts load, but doesn't hold	1. Cylinder packing is leaking.	1. Install seal kit
	2. Valve not working correctly (suction, delivery, release, or bypass).	2. Inspect valves. Clean and repair seat surfaces.
	3. Air-locked system.	3. Bleed system.
Jack leaks oil	1. Worn or damaged seals.	1. Install seal kit.
Jack will not retract	1. Release valve is closed.	1. Open or clean release valve.
Air motor won't run or runs erratically	1. Leak in airline.	1. Locate leak, tighten connections, or replace hose.
	2. Inadequate air pressure.	2. Set air pressure to 101-145psi

ATD-7396A


106
64
65
63
74
75
66
67
68
69
69
62
72
73
70
71
S
L
T
28
104
105
103
102
101
100
99
98
97
96
95
94
93
92
91
90
89
88
87
86
85
84
83
82
81
80
79
78
76
77
76
K
J
I
H
47
46
45
44
43
42
41
49
48
47
40
L
M
N
O
P
Q
R
50
50
47
52
51
55
56
54
53
40
39
38
37
36
35
34
33
32
30
31
29
30
V
25
61
60
59
58
27
26
26
24
57
14
13
15
16
23
22
7
6
9
8
12
5
G
F
E
D
21
20
19
18
C
B
A
17
10
11
1
5
2
3
4

ITEM#	ORDERING PART#	DESCRIPTION
1	N/A	FRAME
2	PRT7391A-04	FRONT WHEEL
3	PRT7391A-04	WASHER
4	PRT7391A-04	SNAP RING
5	PRT7391A-04	GREASE FITTING
6	N/A	ROD LINK
7	N/A	BOLT
8	PRT7391A-01	SADDLE
9	N/A	SNAP RING
10	N/A	LOCK WASHER
11	N/A	NUT
12	PRT7390A-05	SPRING
13	PRT7390A-05	BOLT
14	N/A	BOLT
15	PRT7390A-05	SNAP RING
16	PRT7390A-05	SHAFT
17	PRT7391A-03	CASTER
18	PRT7391A-03	LOCK WASHER
19	PRT7391A-03	NUT
20	N/A	SNAP RING
21	N/A	SHAFT
22	N/A	WASHER
23	N/A	PIN
24	N/A	CONNECTION BAR
25	PRT7390A-06	SPRING
26	N/A	SNAP RING
27	N/A	SHAFT
28	N/A	COVER BOARD
29	PRT7396A-07	SNAP RING
30	PRT7396A-07	WASHER
31	PRT7396A-07 / PRT7396A-08	O-RING
32	PRT7396A-07	PISTON ROD
33	PRT7396A-07	PISTON RING
34	PRT7396A-07 / PRT7396A-08	SEALING WASHER
35	PRT7396A-07 / PRT7396A-08	O-RING
36	PRT7396A-07	O-RING RETAINER
37	PRT7396A-07	SNAP RING
38	PRT7396A-07	IRON
39	PRT7396A-07	OIL CYLINDER ASSEMBLY
40	PRT7396A-07 / PRT7396A-08	OIL FILLER PLUG
41	PRT7396A-07	STEEL BALL
42	PRT7396A-07	BALL SEAT
43	PRT7396A-07	SPRING
44	PRT7396A-07	SCREW
45	PRT7396A-07 / PRT7396A-08	SEALING WASHER
46	PRT7396A-07	BOLT
47	PRT7396A-07	STEEL BALL
48	PRT7396A-07 / PRT7396A-08	COPPER WASHER
49	PRT7396A-07	BOLT
50	PRT7396A-07 / PRT7396A-08	O-RING
51	PRT7396A-07	RELEASE VALVE ROD
52	PRT7396A-07	PIN
53	PRT7396A-07 / PRT7396A-08	O-RING
54	PRT7396A-07 / PRT7396A-08	SNAP RING
55	PRT7396A-07	PIN
56	PRT7396A-07	CYLINDER PUMP PLUNGER
57	N/A	HANDLE SOCKER
58	N/A	PEDAL
59	N/A	NUT
60	N/A	WASHER
61	N/A	BOLT
62	N/A	HANDLE
63	N/A	SLEEVE
64	N/A	KNOB

ITEM#	ORDERING PART#	DESCRIPTION
65	N/A	PIN
66	N/A	CONTROL ROD
67	N/A	SPRING
68	N/A	WASHER
69	N/A	BOLT
70	N/A	ROD JOINT
71	N/A	SPRING
72	N/A	UNIVERSAL JOINT ASSEMBLY
73	N/A	LINKAGE ROD
74	N/A	WASHER
75	N/A	PIN
76	PRT7395A-09 / PRT7395A-10	COPPER WASHER
77	PRT7395A-09	OIL VALVE BODY
78	PRT7395A-09 / PRT7395A-10	NYLON GASKET
79	PRT7395A-09	PUMP CYLINDER
80	PRT7395A-09 / PRT7395A-10	OIL SEAL
81	PRT7395A-09 / PRT7395A-10	SEALING WASHER
82	PRT7395A-09 / PRT7395A-10	COPPER WASHER
83	PRT7395A-09 / PRT7395A-10	NUT
84	PRT7395A-09	BOLT
85	PRT7395A-09	FRONT COVER
86	PRT7395A-09	STEEL BALL
87	PRT7395A-09	AIR PUMP HOUSING
88	PRT7395A-09	NUT
89	PRT7395A-09 / PRT7395A-10	SPRING
90	PRT7395A-09 / PRT7395A-10	WASHER
91	PRT7395A-09	CYLINDER PUMP PLUNGER
92	PRT7395A-09	PISTON BODY A
93	PRT7395A-09 / PRT7395A-10	O-RING
94	PRT7395A-09	AIR RELEASE ROD
95	PRT7395A-09 / PRT7395A-10	O-RING
96	PRT7395A-09	PISTON BODY B
97	PRT7395A-09 / PRT7395A-10	AIR SEAL
98	PRT7395A-09 / PRT7395A-10	O-RING
99	PRT7395A-09 / PRT7395A-10	O-RING
100	N/A	REAR COVER
101	PRT7395A-11	SNAP RING
102	PRT7395A-11	SNAP RING
103	PRT7395A-11	O-RING
104	PRT7395A-11	BOLT
105	PRT7395A-11	AIR VALVE ASSY
106	PRT7396A-02	HANDLE KIT
A	PRT7391A-03	STEEL BALL
B	PRT7391A-03	STEEL BALL
C	PRT7391A-03	BALL SUPPORT
D	N/A	RETAINING RING
E	N/A	WASHER
F	N/A	WASHER
G	N/A	BOLT
H	PRT7396A-07	STEEL BALL
I	PRT7396A-07	SPRING
J	PRT7396A-07 / PRT7396A-08	COPPER WASHER
K	PRT7396A-07	BOLT
L	PRT7396A-07 / PRT7396A-08	BOLT
M	PRT7396A-07	WASHER
N	PRT7396A-07	WASHER
O	PRT7396A-07	OIL BOX ASSEMBLY
P	PRT7396A-07	NUT
Q	PRT7396A-07	HOSE
R	PRT7396A-07	SPRING
S	N/A	PIN
T	N/A	PIN
U	N/A	SNAP RING
V	N/A	FITTING

ORDERING PART#	DESCRIPTION
PRT7391A-01	SADDLE
PRT7396A-02	HANDLE KIT
PRT7391A-03	CASTER
PRT7391A-04	WHEEL KIT
PRT7390A-05	LIFT ARM SPRING KIT
PRT7390A-06	HANDLE RETURN SPRING
PRT7396A-07	HYDRAULIC UNIT
PRT7396A-08	CYLINDER SEAL KIT
PRT7395A-09	AIR MOTOR
PRT7395A-10	AIR MOTOR SEAL KIT
PRT7395A-11	AIR HOSE ASSEMBLY

Not all components of the jack are replacement items, but are illustrated as a convenient reference of parts location.
Call your distributor for current pricing. When ordering parts, give part number and parts description.

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-7396A 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]