



AMERICAN FORGE & FOUNDRY

MODEL: 300OR



3-Ton Off-Road Floor Jack *Owner's Manual*



WARNING:

IMPORTANT: READ THESE INSTRUCTIONS AND ALL WARNINGS PRIOR TO USING THIS EQUIPMENT. UNDERSTAND ALL OPERATING PROCEDURES, SAFETY WARNINGS AND MAINTENANCE REQUIREMENTS. FAILURE TO DO SO COULD CAUSE AN ACCIDENT RESULTING IN SERIOUS OR FATAL INJURY AND/OR PERSONAL PROPERTY DAMAGE.



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AFF 300OR_INST_4.30.25-FA



GENERAL DESCRIPTION

PRODUCT DESCRIPTION

This jack is not intended for on-road or general automotive use and is designed solely for off-road applications.

SAFETY INFORMATION

WARNING

- 2.1 Locate the jack in a suitable working area.
- 2.2 Inspect the jack before each use. Do not use jack if damaged, altered, modified, in poor condition, leaking hydraulic fluid, or unstable due to loose or missing hardware or parts. Make corrections before using.
- 2.3 Use jack on level and solid ground.
- 2.4 Ensure the vehicle handbrake is engaged, engine is switched off and transmissions in gear (or "PARK" if automatic).
- 2.5 Ensure minimum distance of 0.5 m between vehicle and static objects such as doors, walls, etc., to allow for vehicle tilting.
- 2.6 Ensure all non-essential persons keep a safe distance while the jack is in use.
- 2.7 Do not exceed rated capacity of jack.
- 2.8 Place jack under only those lifting points recommended by vehicle manufacturer (see vehicle handbook).
- 2.9 Check that the lifting point is stable and centered on the jack saddle.
- 2.10 Ensure the jack wheels are free to move and that there are no obstructions.
- 2.11 Use suitable axle stands under the vehicle before proceeding with any task.
- 2.12 Ensure there are no persons or obstructions beneath the vehicle before lowering.
- 2.13 Ensure proper routine maintenance is performed by a qualified individual.
- 2.14 Wear ANSI-approved safety goggles and heavy-duty working gloves during use.
- 2.15 When not in use store jack, fully lowered, in a safe, dry, childproof location.

DO NOT operate the jack if damaged.

DO NOT allow untrained persons to operate the jack.

DO NOT exceed the rated capacity of the jack.

DO NOT move or dolly the vehicle while it is on the jack.

DO NOT lift vehicle if there is a risk of spillage of fuel, battery acid, or other dangerous substances.

DO NOT work under the vehicle until appropriately supported.

DO NOT fill hydraulic system with brake fluid, alcohol or transmission oil. Use hydraulic jack oil only.

DO NOT adjust the safety overload valve.

The warnings, precautions, and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. The operator must understand that common sense and caution are factors, which cannot be built into this product, but must be supplied by the operator.



WARNING: This product can expose you to chemicals including nickel, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



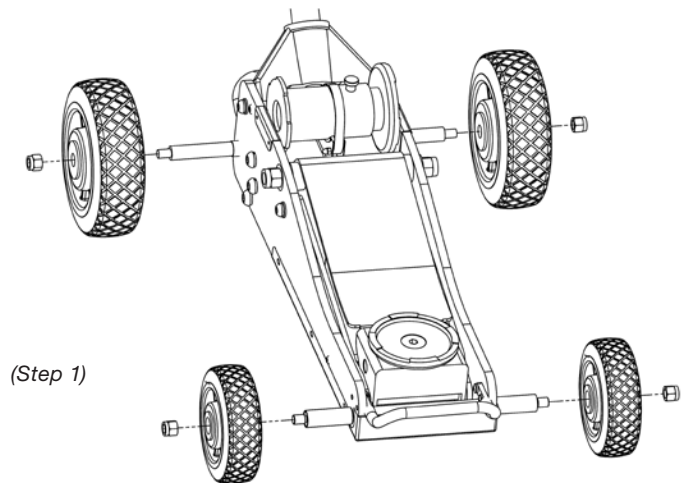
SPECIFICATIONS

Rated Capacity (Safe Working Load)	3 Ton
Weight	80 lbs
Lowered Height	5.9"
Maximum Height with Extension	28.74"
Maximum Height without Extension	21.26"

ASSEMBLY

STEP 1: ATTACHING WHEELS

- Slide an 8" wheel onto each rear axle, and a 6" wheel onto each front axle.
- Secure each wheel onto respective axle with provided lock nuts.
- Check to make sure lock nuts are tight.



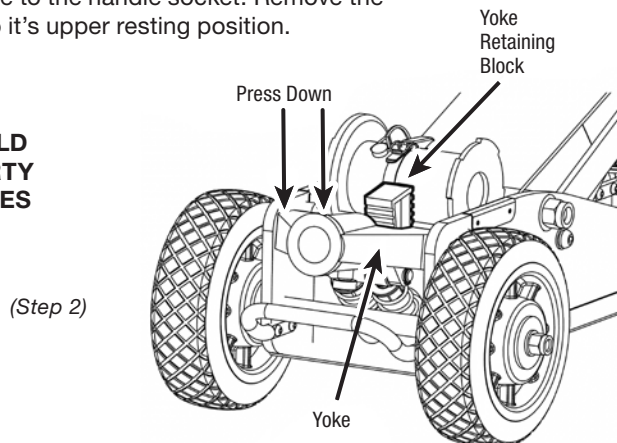
STEP 2: HANDLE SOCKET RETAINING BLOCK REMOVAL

Your jack has been shipped with a retaining block to hold the handle socket in the downward position. This must be removed.

Push down on the handle socket until the block can be removed from between handle socket and pull rod. A second person may be needed to hold the front of the jack down while applying downward force to the handle socket. Remove the block and allow the handle socket to raise to its upper resting position.

CAUTION

RETAINING BLOCK IS UNDER LOAD AND COULD POP OUT AND CAUSE PERSONAL OR PROPERTY DAMAGE. WEAR EYE PROTECTION AND GLOVES TO REMOVE.

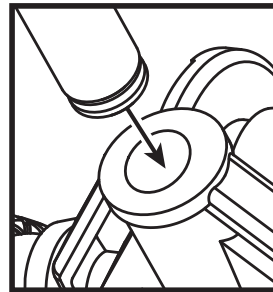
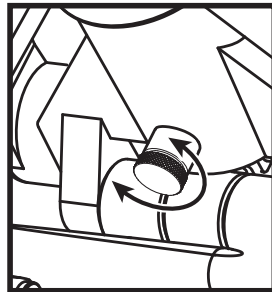
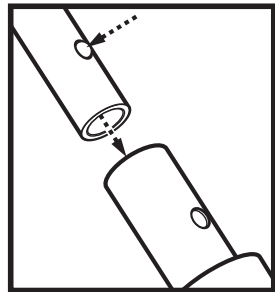




STEP 3: ATTACHING PUMP HANDLE

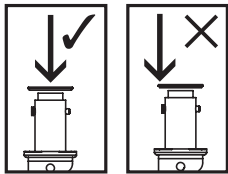
- Slide the lower handle into the upper handle until handle lock button locks.
- Loosen the handle socket screw in the handle socket.
- Apply a small amount of grease to the handle socket.
- Place the assembled handle into the handle socket.
- Tighten the handle socket screw.

(Step 3)



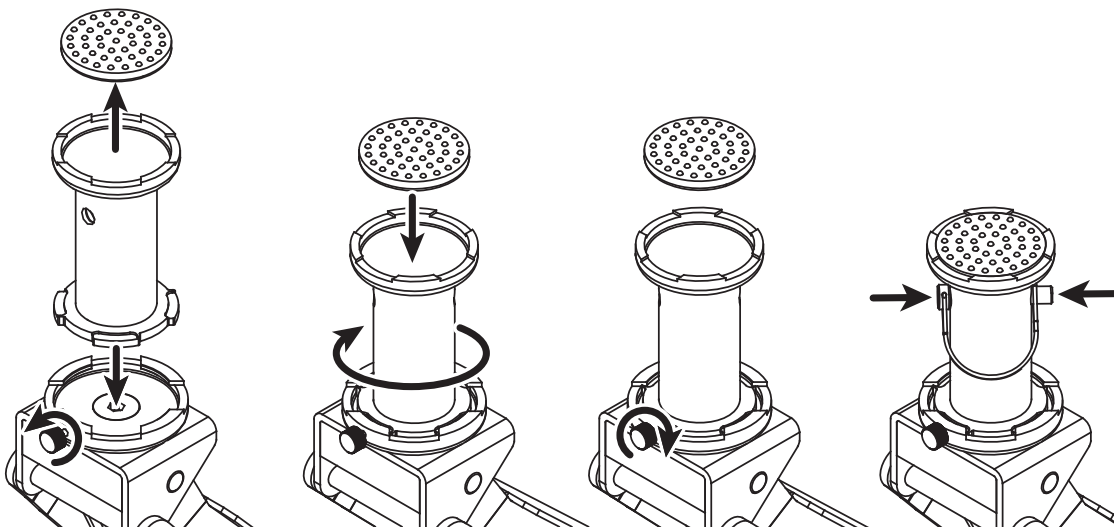
SADDLE EXTENSION

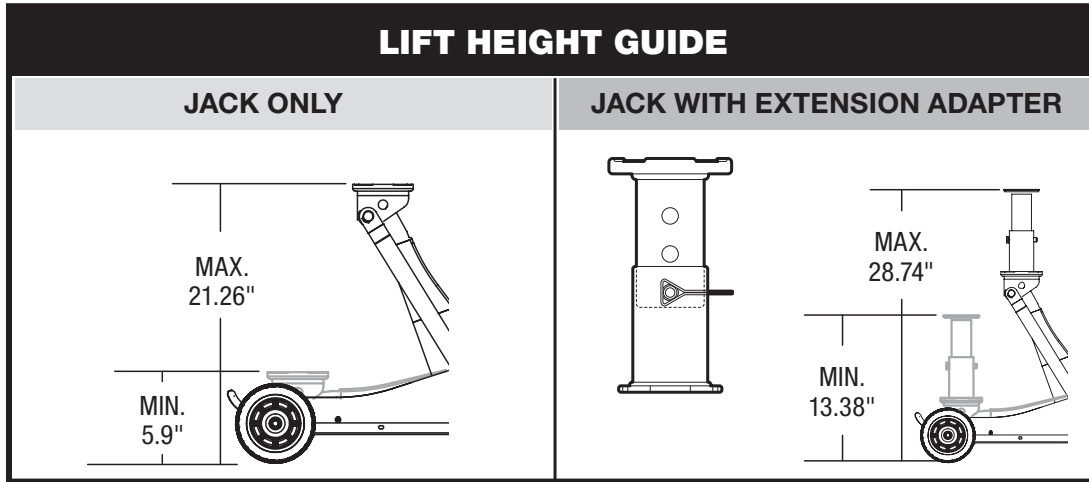
- Remove saddle pad, loosen the knurled flat head screw.
- Place saddle extension on lower saddle.
- Rotate saddle extension until locking flanges on both upper and lower saddle are fully engaged.
- Tighten the knurled flat head screw.
- Adjust saddle extension to desired height.
- Replace saddle pad if using on hard surface.
- Install adjustment locking pin.



⚠ WARNING

OFF-CENTER LOAD WILL MAKE JACK UNSTABLE. MAKE SURE THAT LOAD IS ALWAYS IN THE CENTER OF THE SADDLE. SADDLE PAD IS REMOVABLE, REMOVE SADDLE PAD TO UTILIZE SADDLE CUP WHEN NECESSARY.

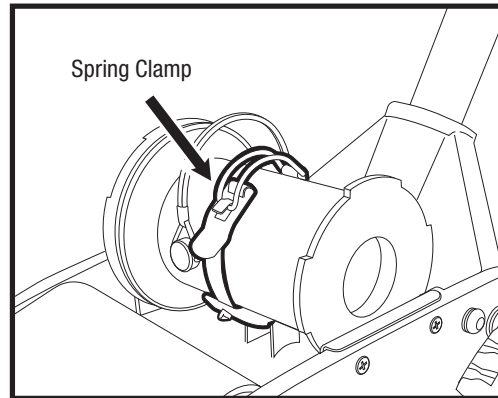
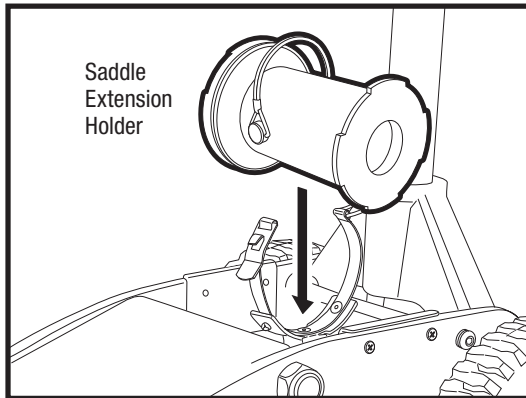




SADDLE EXTENSION HOLDER

TO PLACE SADDLE EXTENSION IN THE HOLDER:

- Make sure saddle extension is on the lowest height setting and secure with pin.
- Place saddle extension sideways into the holder and secure spring clamp over the top.



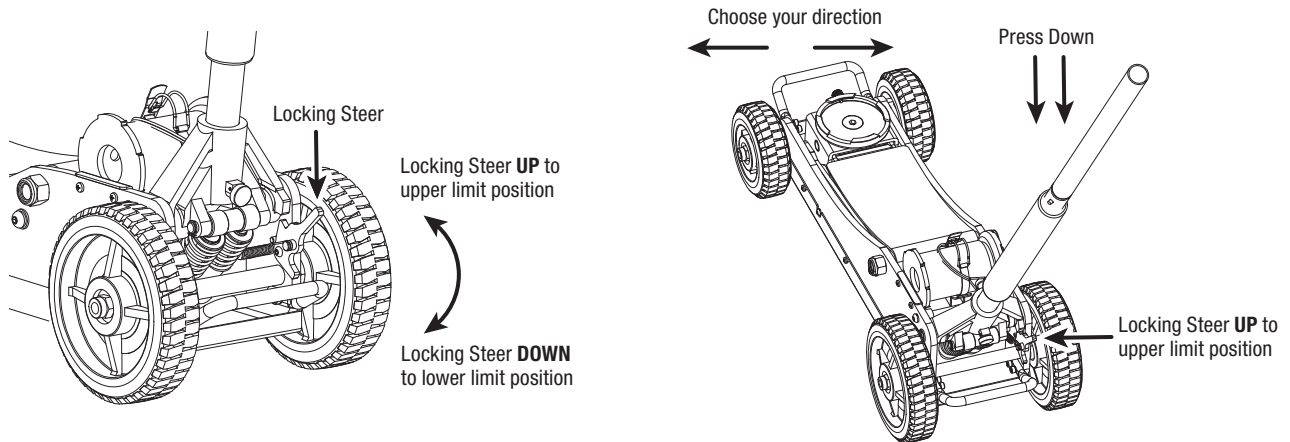


INSTRUCTIONS FOR THE USE OF HANDLE LOCK

- a. **TO LOCK HANDLE:** Push handle lock in up position. Pull the handle down to an angle of about 55° until the yoke engages with the handle lock.
- b. Continue to press the handle down to lift the front wheels and position the jack to the desired point under the vehicle.
- c. Tilt the handle back to 90° and release the handle lock by pushing down on the handle lock. Turn the handle clockwise to close the release valve.
- d. Begin pumping the handle up and down to raise the jack to the desired height.

⚠ WARNING

**DO NOT ENGAGE THE HANDLE LOCK WHILE THE JACK IS UNDER LOAD.
DO NOT USE THE HANDLE LOCK TO POSITION "DOLLY" THE VEHICLE
WHILE IT IS UNDER LOAD.**



HYDRAULIC SYSTEM PURGING

- 3.1 Open the release valve by turning it two full turns counter-clockwise.
- 3.2 Pump the handle a minimum of four full strokes quickly.
- 3.3 Close the release valve by turning it clockwise.
- 3.4 Pumping the handle with full strokes to check if it can reach the maximum height by eight pumps.

IF IT CAN'T REACH THE MAXIMUM HEIGHT BY EIGHT PUMPS, PLEASE REFER TO THE FOLLOWING SPECIAL PURGING PROCESS:

- 3.5 Open the release valve by turning counter-clockwise and lower the lifting arm to the minimum height.
- 3.6 Put the jack on a flat working table, carefully lift and support the front part of the jack to make sure the front part is at least 500 mm higher than the end part of the jack.
- 3.7 Pump the handle a minimum of four full strokes quickly.
- 3.8 Put the jack on a flat surface and close the release valve by turning it clockwise.
- 3.9 Pumping the handle with full strokes to check if it can reach the maximum height by eight pumps, if not please repeat the special purging process again.



OPERATING INSTRUCTIONS

LIFTING

- 4.1 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.
- 4.2 Close the release valve by turning the handle clockwise until firm resistance is felt.
- 4.3 Refer to the vehicle manufacturer owner's manual to locate approved lifting points on the vehicle. Center jack saddle under lift point.
- 4.4 Pump handle to contact lift point. To lift, continue pumping until the load reaches the desired height.
- 4.5 Transfer the load immediately to appropriately rated jack stands.

LOWERING

- 4.6 Raise the load high enough to clear jack stands.
- 4.7 Remove jack stands.
- 4.8 Slowly turn the handle counter-clockwise, but no more than 1/2 full turn. If the load fails to lower:
 - a. Use a functioning jack to raise the vehicle high enough to reinstall jack stands.
 - b. Remove the malfunctioning jack and then the jack stands.
 - c. Use the functioning jack to lower the vehicle.
- 4.9 After removing the jack from under the vehicle, lower the lifting arm completely to reduce ram exposure to rust and contamination.

⚠ WARNING

CLEAR ALL TOOLS AND PERSONNEL BEFORE LOWERING THE LOAD. OPEN THE RELEASE VALVE SLOWLY. THE FURTHER THE HANDLE IS TURNED COUNTER-CLOCKWISE, THE FASTER THE LOAD WILL DESCEND. MAINTAIN CONTROL OF THE LOAD AT ALL TIMES.

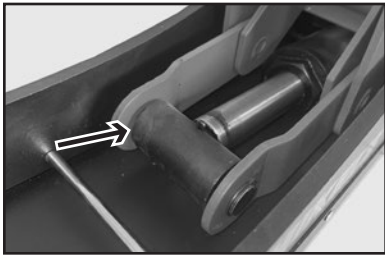


MAINTENANCE

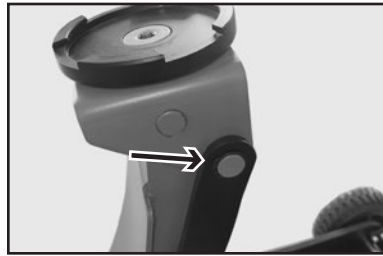
5.1 MONTHLY MAINTENANCE

Periodic lubrication is critical to jacks. Any restriction due to dirt or rust can cause either slow jack movement, or extremely rapid jerks, causing damage to the internal components. To keep the jack well lubricated, carry out the following steps.

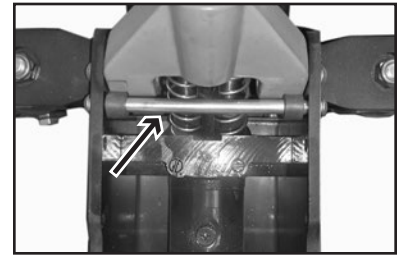
5.1.1 Lubricate the linkages the saddle and pump mechanism with light oil.



Linkage (1)

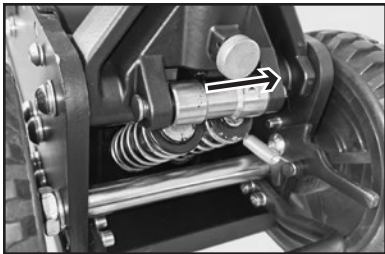


Linkage (2)

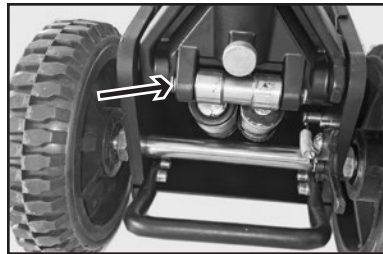


Linkage (3)

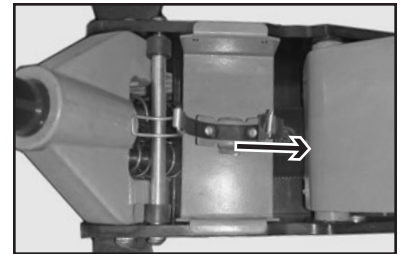
5.1.2 Grease the wheel bearing and axles.



Roller Pin (right)



Roller Pin (left)



Lifting Arm

5.1.3 Keep all jack surfaces and warning labels clean.

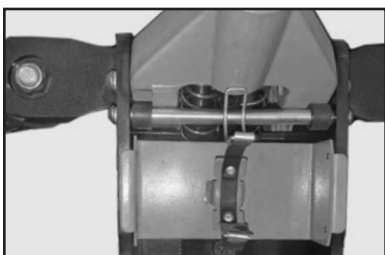
5.2 TRI-MONTHLY MAINTENANCE

5.2.1 At tri-monthly intervals, check the pump for any signs of rust or corrosion. Clean the pump as required and wipe with an oil cloth.

5.3 CHECKING THE OIL LEVEL

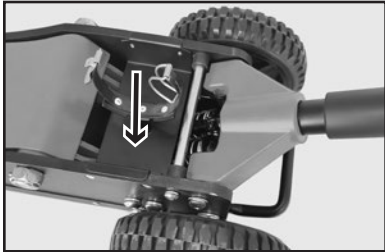
5.3.1 Fully retract the ram by turning the release valve counter-clockwise.

5.3.2 Loosen and take off the four top plate retaining screws and remove the top plate vertically as pictured below.



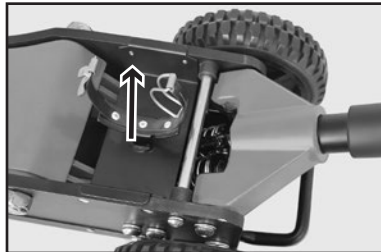
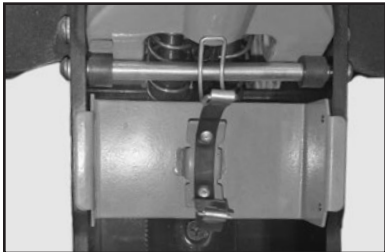


- 5.3.3 With the jack in the level position, remove the oil filler plug.
- 5.3.4 The proper oil volume should be the maximum distance from the oil surface level to the top of pump and should be less than 11 mm. If there is not enough oil, please add hydraulic oil according to Section 5.4.
- 5.3.5 Replace the oil filler plug.
- 5.3.6 After adding oil, please checking if the jack can reach the maximum height with eight pumps. If not, please purge air from the hydraulic unit as required. Refer to Section 3.
- 5.3.7 Cover the top plate, then tighten the four screws.

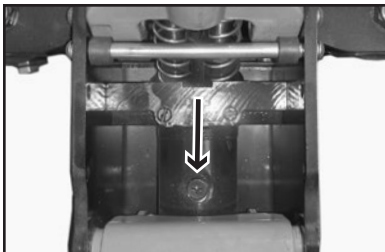


5.4 ADDING OIL

- 5.4.1 Fully retract the ram by turning the release valve counter-clockwise.
- 5.4.2 Loosen and take off the four top plate retaining screws and remove the top plate vertically as pictured below.

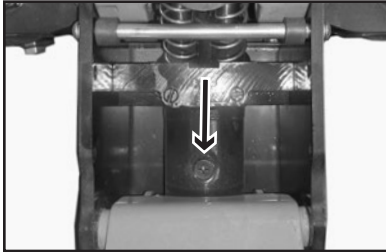


- 5.4.3 With the jack in the level position, remove the oil filler plug.



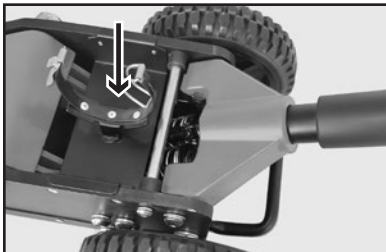


5.4.4 Fill with oil through the oil hole and make sure the oil surface level to the top of oil tank is less than 11 mm.



5.4.5 Replace the oil filler plug, purge air from the hydraulic unit as required. Refer to Section 3.

5.4.6 Replace the top plate and tighten the four screws.

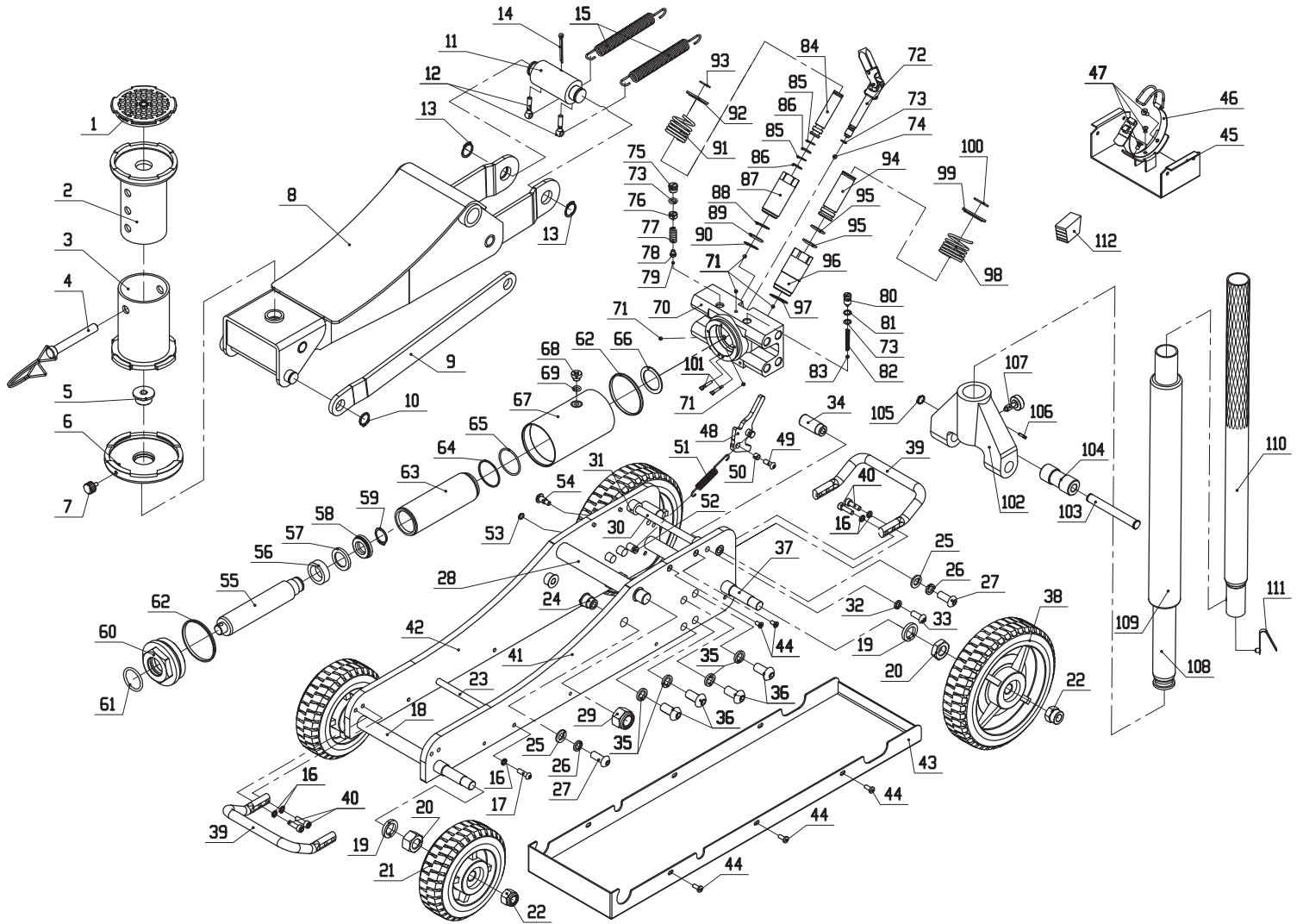


TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
Jack will not lift to full height	<ol style="list-style-type: none"> 1. Oil level low 2. Release valve not closing 	<ol style="list-style-type: none"> 1. Check / add oil 2. Close the release valve
Jack will not hold the load	<ol style="list-style-type: none"> 1. Release valve not closing 2. Hydraulic oil is contaminated 3. Pump leaking 	<ol style="list-style-type: none"> 1. Close the release valve 2. Contact authorized service agent
Lift arm will not lower	<ol style="list-style-type: none"> 1. Pump cylinder binding 2. Parts worn 3. Internal component damage 4. Return spring broken or unhooked 5. Lift arm linkage either bent or binding 6. Air in the hydraulic system 	<ol style="list-style-type: none"> 1. Contact authorized service agent
After hydraulic purging, the jack still can't reach the maximum by eight pumps	<ol style="list-style-type: none"> 1. Still have air in the hydraulic system 	<ol style="list-style-type: none"> 1. Purge air according to manual Part 3
Poor lift performance	<ol style="list-style-type: none"> 1. Fluid level low 2. Hydraulic unit malfunction 	<ol style="list-style-type: none"> 1. Ensure proper fluid level 2. Discontinue use, contact authorized service agent



ASSEMBLY DIAGRAM





PARTS LIST: 3-TON OFF-ROAD FLOOR JACK MODEL 300OR

PART #	PART DESCRIPTION	QTY/ UNIT	PART #	PART DESCRIPTION	QTY/ UNIT
1	SADDLE PAD	1	28	LIFT ARM SHAFT	1
2	SADDLE EXTENSION 2	1	29	LOCKING NUT	2
3	SADDLE EXTENSION 1	1	30	FRAME TIE ROD I	1
4	LOCKING PIN	1	31	RUBBER SLEEVE	2
5	SADDLE BOLT	1	32	LOCK WASHER	2
6	SADDLE	1	33	SCREW	2
7	KNURLED FLAT HEAD SCREW	1	34	PIN	2
8	LIFTING ARM ASSEMBLY	1	35	LOCK WASHER	8
9	RADIUS LINK	2	36	SCREW	8
10	SNAP RING	2	37	REAR AXLE	1
11	LOAD BLOCK	1	38	REAR WHEEL	2
12	EYELET BOLT	2	39	HANDLE BAR	2
13	SNAP RING	2	40	HEXAGONAL SOCKET HEAD SCREW	8
14	RETAINER	1	41	LEFT PLATE	1
15	SPRING	2	42	RIGHT PLATE	1
16	LOCK WASHER	10	43	BOTTOM FENDER	1
17	SCREW	2	44	SCREW	10
18	FRONT AXLE	1	45	SADDLE EXTENSION HOLDER	1
19	LOCK WASHER	4	46	STRAP HOLDER	1
20	HEX THIN NUT	4	47	RIVET	3
21	FRONT WHEEL	2	48	LIMIT HANDLE	1
22	LOCKING NUT	4	49	SCREW	1
23	FRAME TIE ROD	1	50	BUSHING	1
24	RADIUS LINK PIN	2	51	SPRING	1
25	WASHER	4	52	PIN	1
26	LOCK WASHER	4	53	SNAP RING	1
27	SCREW	4	54	PIN	1



PARTS LIST: 3-TON OFF-ROAD FLOOR JACK MODEL 300OR

HYDRAULIC UNIT

PART #	PART DESCRIPTION	QTY/ UNIT
55	RAM PLUNGER	1
56	BUSHING COVER	1
57	BACK-UP WASHER	1
58	Y-SEALING RING	1
59	SNAP RING	1
60	TOP NUT	1
61	'O' RING	1
62	WEDGE RING	2
63	CYLINDER	1
64	BACK-UP WASHER	1
65	'O' RING	1
66	WASHER	1
67	RESERVOIR	1
68	SCREW	1
69	'O' RING	1
70	BASE	1
71	BALL	5
72	RELEASE VALVE ASSY	1
73	'O' RING	3
74	BALL	1
75	GUARD SCREW	1
76	SCREW SAFETY VALVE	1
77	SPRING	1
78	VALVE	1
79	BALL	1
80	BOLT	1
81	BACK-UP WASHER	1
82	SPRING	1
83	BALL	1

PART #	PART DESCRIPTION	QTY/ UNIT
84	PUMP PISTON	1
85	BACK-UP WASHER	2
86	'O' RING	2
87	PUMP	1
88	BACK-UP WASHER	1
89	'O' RING	1
90	WASHER	1
91	PUMP CORE REST SPRING	1
92	SPRING STOP SHEET	1
93	SNAP RING	1
94	PUMP PISTON	1
95	'O' RING	2
96	PUMP	1
97	WASHER	1
98	PUMP CORE REST SPRING	1
99	SPRING STOP SHEET	1
100	SNAP RING	1
101	FILTER	2
102	HANDLE BASE	1
103	PIN	1
104	ROLLER	1
105	SNAP RING	1
106	PIN	1
107	BOLT	1
108	HANDLE-I	1
109	ENVIRONMENTAL PROTECTION FOAM	1
110	HANDLE-II	1
111	HANDLE LOCK BUTTON	1
112	BLOCK RUBBER	1



AMERICAN FORGE & FOUNDRY

LIMITED WARRANTY

SureWerx USA WARRANTS TO ITS CUSTOMERS THAT THE COMPANY'S SureWerx USA AFF-BRANDED PRODUCTS ARE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS.

SureWerx USA will repair or replace its **SureWerx USA AFF-branded** products which fail to give satisfactory service due to defective workmanship or materials, based upon the terms and conditions of the following described warranty plans attributed to that specific product. This product carries a ONE-YEAR warranty. During this warranty period, **SureWerx USA** will repair or replace at our option any part or unit which proves to be defective in material or workmanship.

Other important warranty information:

This warranty does not cover damage to equipment or tools arising from alteration, abuse, misuse, damage and does not cover any repairs or replacement made by anyone other than **SureWerx USA**. The foregoing obligation is **SureWerx USA's** sole liability under this or any implied warranty and under no circumstances shall we be liable for any incidental or consequential damages.

Note: 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. If you have any questions about warranty service, please contact **SureWerx USA**. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.



AMERICAN FORGE & FOUNDRY



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