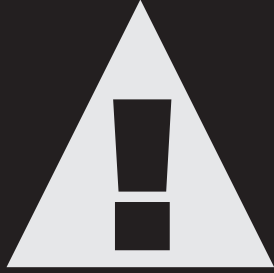


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**SPECIFICATIONS**

Rated Capacity	2,000 LBS
Stroke 1st Stage	19"
Stroke 2nd Stage	20"
Low Height	37"
High Height	76"
Front Tilt	28°
Rear Tilt	49°
Base Width	28x32"
Operation	Air Assist
Weight	183 LBS



WARNING:

Read all instructions and safety warnings before operating this equipment. Failure to follow the instructions and safety warnings may result in personal injury or property damage.

WARNING

The use of portable automotive lifting devices is subject to certain hazards that cannot be prevented by mechanical means, but only by the use of care and common sense. It is essential to have qualified personnel involved in the use and operation of this lifting equipment that have been trained and qualified in its safe operation and proper use. Examples of hazards are dropping, tipping, or slipping of loads caused primarily by improperly securing loads, overloading, off-centered loads, use on poor surfaces, and/or using the equipment for a purpose for which it was not designed.

It is the responsibility of the owner and operator to study and understand this product and follow the safety instructions prior to operating this equipment. If the operator is not fluent in English the product and safety instructions shall be read and discussed in the operator's native language by the purchaser, owner, or his designee.

A copy of these instruction/warnings should be kept intact and located in a convenient location for future reference.

Methods to Avoid Hazardous Situations

- Read, understand, and follow all instructions before operating this device.
- Do not use jack beyond its rated capacity of 2,000 lbs.
- Do not use as a vehicle lifting device or as a vehicle support.
- Do not modify this product for any other purpose than that for which it was designed.
- Do not use any adapters unless approved or supplied by SureWerx USA.
- Wear eye protection that meets ANSI Z87.1.
- Inspect the jack before each use. Do not use if damaged, altered, modified, in poor condition, leaking hydraulic fluid, or unstable due to loose or missing components. Make corrections before using.
- Support the engine with a stand before unbolting the transmission from the engine.
- Consult the vehicle manufacturer for the transmission center of balance. Center load on saddle.
- Do not use a power tool to adjust the saddle tilt screws. Operate by hand or with a wrench.
- Use only on a hard level surface.
- Use of the product is limited to the removal, installation, and transportation in the lowered position of transmissions, transfer cases, and transaxles.
- If any part of the equipment needs repaired or replaced please contact an AFF authorized repair center.
- Failure to heed these warnings may result in serious or fatal personal injury and/or property damage



ASSEMBLY

1. Refer to the parts diagrams and parts listing in the manual for identification, location, and position of parts.
2. Take out all parts from the box and lay on a flat surface.
3. Secure caster with foot brake (53) and regular caster (6) onto the leg base (48) by using nut (50,) lock washer (51,) and washer (52.) Secure the other 2 casters on the opposite leg base using the same hardware.
4. Place the hydraulic pump (36) in an upright position. Secure the legs (48) to the pump by using washer (54,) lock washer (55,) and bolt (56.)
5. Attach the adjusted support rod (24) to support ring (19) by using bolt (21,) lock washer (22,) and nut (23) and make the upper end of support ring (19) close to the lower end of nut (25.) (see Figure 1.)
6. Adjust the length of round nut base (17) and bolt (26) to make the hole of bolt (26) align to the hole of the leg (see Figure 2.)
7. Fix the adjusted support rod (24) to the leg (48) by using lock washer (22,) nut (23,) and bolt (49) and tighten the round nut base (17.) Finally tighten bolt (20) to oil tank (27) cross support ring (19.)
8. To assemble the saddle (57) first loosen and remove bolt (S19) and place saddle on the second piston rod (7.) Tighten bolt (S19) to secure.
9. Install the air disconnect of your choice in the air valve. Make sure to apply pipe tape to seal off the threads and prevent any tape from entering the air system.

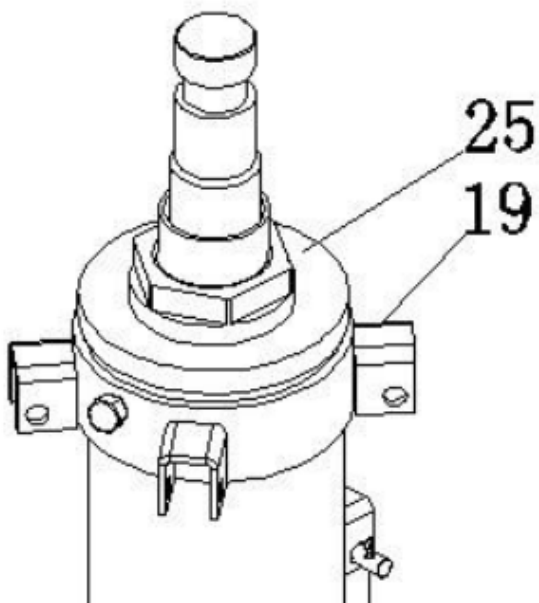


Figure 1

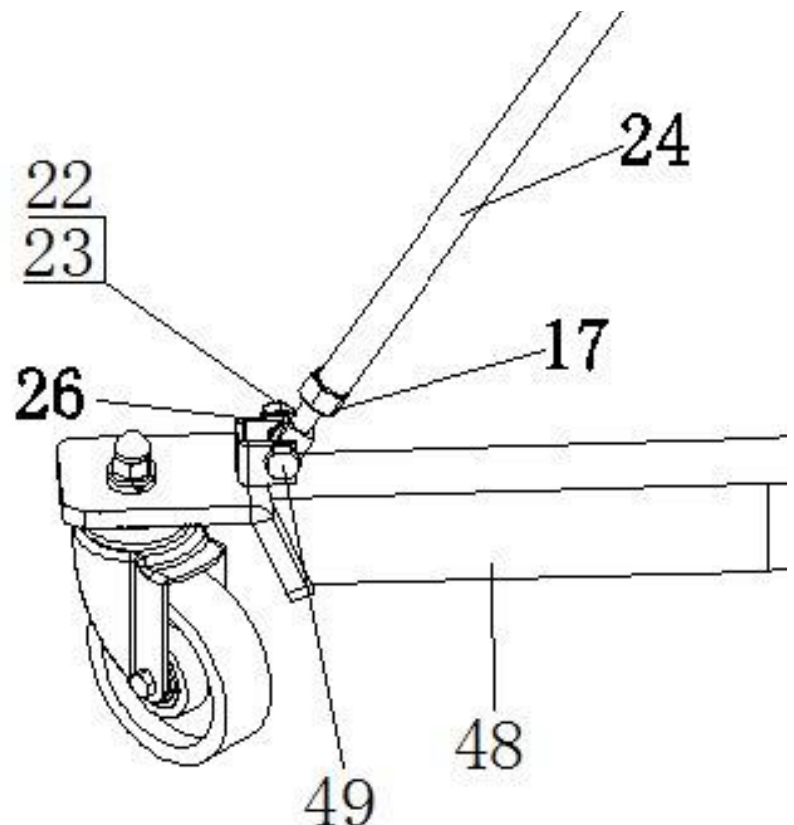
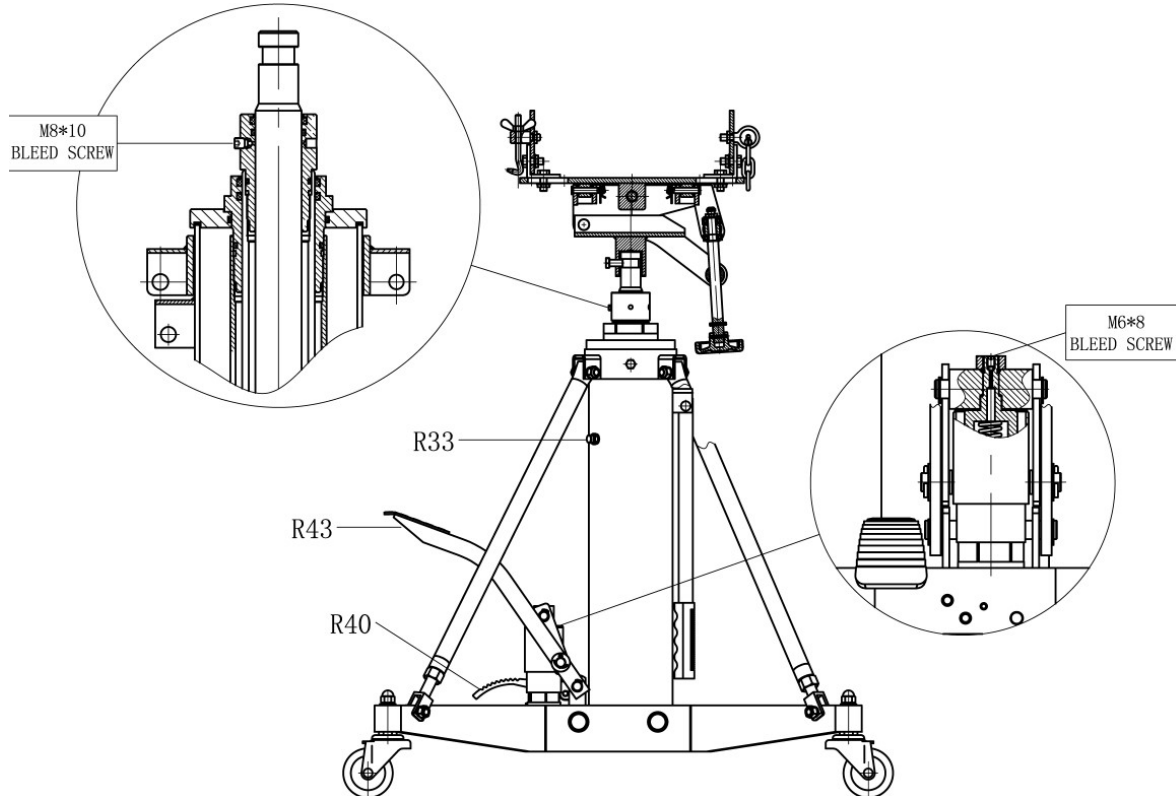


Figure 2



Air Purging Instructions

Sometimes air gets trapped in the hydraulic system during shipping or handling. Evidence of an air bound system is when the ram will not rise to full extension, the ram will not rise proportionate to a full incremental pump stroke, or the rams does not descend smoothly.



If the unit is lifting slowly or not lifting at all follow these instructions to eliminate air in the pump core:

1. Press the release pedal (R40) when the 2 pistons (1st stage and 2nd stage) are in the lowest position.
2. Use a 3mm wrench to loosen the bleed screw a half turn in the counterclockwise direction.
3. Activate the pump pedal (R43) very slowly until hydraulic oil without bubbles is escaping from the hole of the bleeder screw (usually 2 to 3 pumps are sufficient.)
4. Continue to hold pressure on the pump pedal (R43) and simultaneously tighten the bleed screw using a 3mm wrench.
5. Test release pedal and pump pedal to see if condition has been eliminated. If the condition persists repeat steps 1 thru 4.

If the unit is not descending smoothly follow these instructions to eliminate air in the ram:

1. Loosen screw (R33) a half turn.
2. Operate pump pedal (R43) until the adaptor is at the highest position.
3. Use a 3mm wrench to loosen bleed screw but do not take it off.
4. Operate the pump pedal (R43) until there is hydraulic oil visible from the hole of the bleed screw.
5. Tighten bleed screw
6. Press the release pedal (R40) to make the 2 pistons retract. Repeat the above steps again if the pistons do not retract smoothly.



OPERATING INSTRUCTIONS

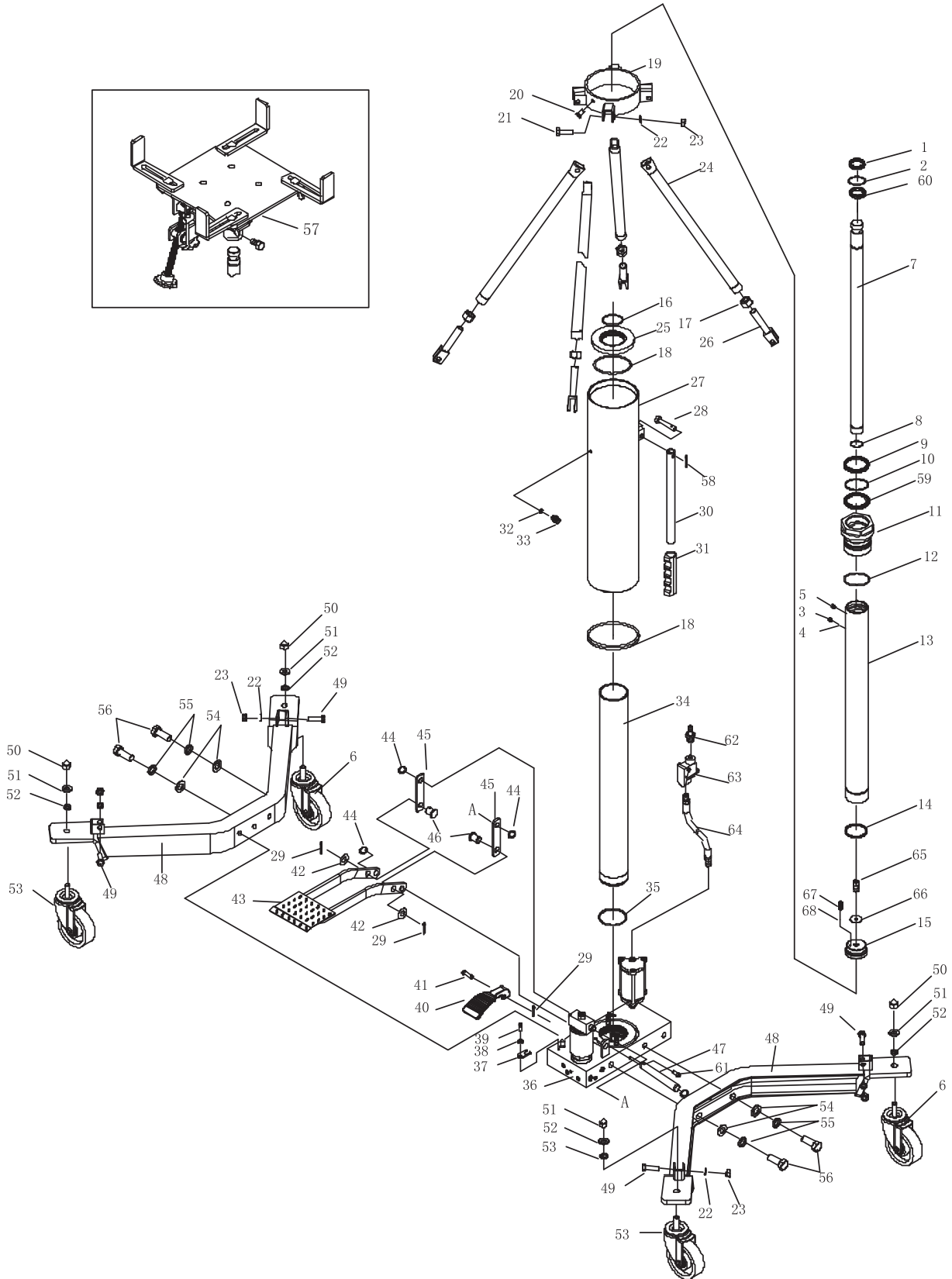
1. Lift the vehicle to the desired work height and support the vehicle in accordance with the lift manufacturer's recommended support procedure and all the instructions and warnings in this manual.
2. Use an under hoist stand rated greater than the weight of the engine to support the engine before unbolting the transmission from the engine or bolting the transmission to the engine.
3. Position the transmission jack directly under the transmission. The transmission jack's saddle can be raised either by foot pump operation or depressing the air valve. A minimum of 100 PSI of compressed air is necessary to lift 2,000 lbs by way of air valve.
4. Pump the jack's saddle to a height very close to the center of balance of the transmission but do not come in contact with the transmission. The saddle has 4 arms that are in an "L" shape. The arms can be used on the short or long portions of the "L." Loosen the bolts to telescope the arms out as far as needed to cradle the transmission. Once adjusted tighten the bolts using the wing nuts provided. Using the foot pump pedal slowly pump the pedal until the saddle supports the transmission. Sometimes it is necessary to turn the fore and aft adjustment handle and/or the side to side adjustment handle so the saddle is in proper alignment with the transmission.
5. Make sure the safety chain is very tight when securing the transmission to the saddle and before removing the under hoist stand that has been supporting the engine.
6. **IMPORTANT:** There are two methods for lowering the jack's saddle. The foot release should only be depressed to lower the saddle quickly without any weight on the saddle. Fine and slow control of lowering the load should be done with turning the release valve handle in a counterclockwise rotation. The more the handle is rotated in a counterclockwise rotation the faster the loaded saddle will descend.
7. When installing a transmission follow the above instructions but in the applicable order and according to the manufacturer's installation procedures.

PREVENTATIVE MAINTENANCE

1. When not in use store the jack in a dry location with the saddle in the lowest position.
2. Always store the jack in a well protected area where it will not be exposed to inclement weather, corrosive vapors, or any other harmful elements. The jack must be cleaned of water, snow, sand, grit, oil, grease, or other foreign matter before using.
3. Lubricate moving parts excluding the telescopic rams monthly with a general purpose grease.
4. To keep the labels clean and readable use a mild soap solution.
5. To ensure best performance and longer equipment life it is recommended to replace the hydraulic oil once per year. With jack in the lowest position remove the air vent screw (R33) and lay the jack on its side. Drain the oil into a suitable container making sure no dirt or debris gets into the system. Set the jack in its upright position and fill with approved hydraulic jack oil. Replace the air vent screw (R33) and purge away air from hydraulic system as described in the ASSEMBLY section.
6. Do not attempt to make any hydraulic repairs unless you are a qualified hydraulic repair technician that is familiar with this equipment. Repairs must be done by an authorized repair center.
7. **IMPORTANT:** To prevent seal damage and jack failure never use alcohol, hydraulic brake fluid, or transmission oil in the jack. Use hydraulic oil only.



JACK DIAGRAM



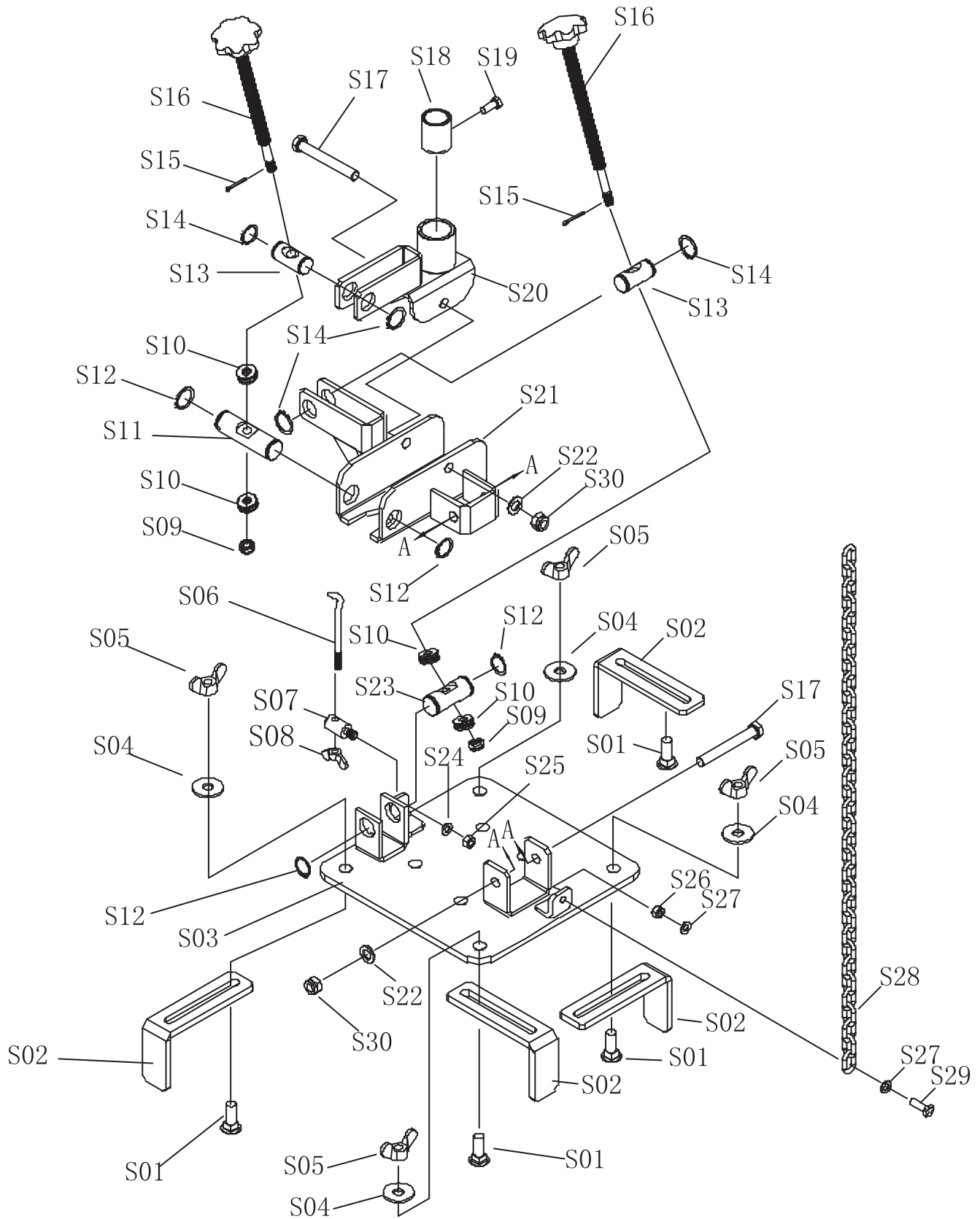


JACK PARTS LIST

Part No.	Description	Qty	Part No.	Description	Qty
1	Dust ring	1	35	Washer	1
2	O-ring	1	36	Pump	1
3	Screw	1	37	U-limited	1
4	Steel Ball	1	38	Lock washer	1
5	Oil cup	1	39	Screw	1
6	Caster	2	40	Release pedal	1
7	Second piston rod	1	41	Pin	1
8	Retainer ring	1	42	Washer	2
9	Dust ring	1	43	Foot pedal	1
10	O-ring	1	44	Retainer ring	4
11	Round nut	1	45	Connect rod	2
12	O-ring	1	46	Pin	2
13	First piston rod	1	47	Pin	1
14	Limited ring	1	48	Legs	2
15	Plunger	1	49	Bolt	4
16	O-ring	1	50	Nut	4
17	Round nut base	1	51	Lock washer	4
18	Waher	2	52	Washer	4
19	Support ring	1	53	Caster with brake	2
20	Bolt	1	54	Washer	4
21	Bolt	4	55	Lock washer	4
22	Lock washer	8	56	Bolt	4
23	Nut	8	57	Saddle	1
24	Adjusted support rod	4	58	Cotter pin	1
25	Nut	4	59	U-ring	1
26	Bolt	4	60	U-ring	1
27	Oil tank	1	61	Screw	2
28	Pin	1	62	Air connector	1
29	Cotter pin	3	63	Air valve	1
30	Handle	1	64	Air hose	1
31	Handle cover	1	65	Second Limited valve	1
32	Seal ring	1	66	Washer	1
33	Screw	1	67	Spring	1
34	Ram	1	68	Steel ball	1



SADDLE DIAGRAM



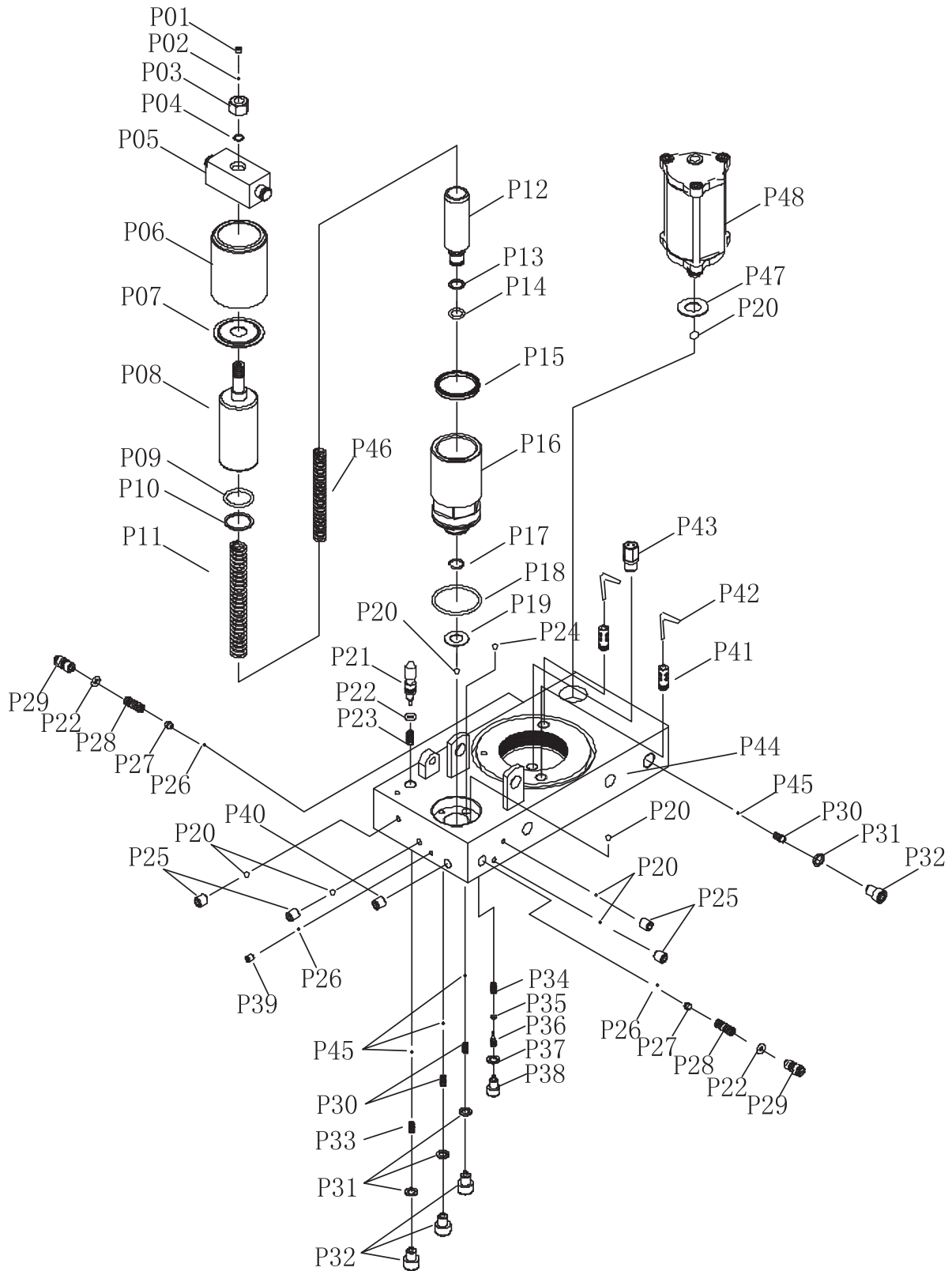


SADDLE PARTS LIST

Parts No.	Description	Qty	Parts No.	Description	Qty
S01	Bolt	4	S16	Adjusted Handle	2
S02	Block	4	S17	Bolt	2
S03	Plate	1	S18	Cover	1
S04	Washer	4	S19	Bolt	1
S05	Nut	4	S20	Saddle Base	1
S06	Chain Hook	1	S21	Plate Carrier	1
S07	Hook Base	1	S22	Washer	2
S08	Nut	1	S23	Pin2	1
S09	Nut	2	S24	Washer	1
S10	Bear	4	S25	Nut	1
S11	Pin	1	S26	Nut	1
S12	Retainer Ring	4	S27	Washer	2
S13	Pin1	2	S28	Chain	1
S14	Retainer Ring	4	S29	Bolt	1
S15	Cotter Pin	2	S30	Nut	2



PUMP DIAGRAM





PUMP PARTS LIST

PARTS No.	DESC	QTY	PARTS No.	DESC	QTY
P1	Screw	1	P25	Screw	4
P2	Steel Ball	1	P26	Steel Ball	3
P3	Nut	1	P27	Steel Ball Base	2
P4	O-Ring	1	P28	Spring	2
P5	Pin Cover	1	P29	Screw	2
P6	Dust Cover	1	P30	Spring	3
P7	Dust Plunger	1	P31	Washer	4
P8	Big Pump Core	1	P32	Screw	4
P9	O-Ring	1	P33	Spring	1
P10	Washer	1	P34	Spring	1
P11	Spring	1	P35	O-Ring	1
P12	Small Pump Core	1	P36	Push Rod	1
P13	Washer	1	P37	Copper Washer	1
P14	O-Ring	1	P38	Screw	1
P15	U-Ring	1	P39	Screw	1
P16	Pump Core Base	1	P40	Screw	1
P17	Retainer Ring	1	P41	Connector	2
P18	O-Ring	1	P42	Filter	2
P19	Small Copper Washer	1	P43	First Limited Valve	1
P20	Steel Ball	7	P44	Pump	1
P21	Release Valve Core	1	P45	Steel Ball	4
P22	O-Ring	3	P46	Spring	1
P23	Spring	1	P47	Copper Washer	1
P24	Steel Ball	1	P48	Air motor	1



TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
<ul style="list-style-type: none"> • Unit will not lift rated load 	<ul style="list-style-type: none"> • Air in the hydraulic system • Inner leaking • Not enough oil 	<ul style="list-style-type: none"> • Purge air from hydraulic system by following procedure under SETUP • Contact repair depot • Refer to maintenance section and fill to correct fluid level
<ul style="list-style-type: none"> • Unit lifts slowly 	<ul style="list-style-type: none"> • Air in the hydraulic system • Inner leaking 	<ul style="list-style-type: none"> • Purge air from hydraulic system by following procedure under SETUP • Contact repair depot
<ul style="list-style-type: none"> • Lift or descent is not smooth 	<ul style="list-style-type: none"> • The piston rod needs lubricating • Air in the ram 	<ul style="list-style-type: none"> • Add lubricating oil on the piston rod and raise and lower one cycle • Purge air from hydraulic system by following procedure under SETUP
<ul style="list-style-type: none"> • Unit will not raise to full height 	<ul style="list-style-type: none"> • Air in the hydraulic system 	<ul style="list-style-type: none"> • Purge air from hydraulic system by following procedure under SETUP
<ul style="list-style-type: none"> • Unit fails to keep pressure 	<ul style="list-style-type: none"> • The release pedal is working improperly • Inner leaking 	<ul style="list-style-type: none"> • Check the release pedal for anything abnormal • Contact an AFF authorized repair depot
<ul style="list-style-type: none"> • Unit still does not operate 		<ul style="list-style-type: none"> • Contact an AFF authorized repair depot



Heavy Duty Transmission Jacks

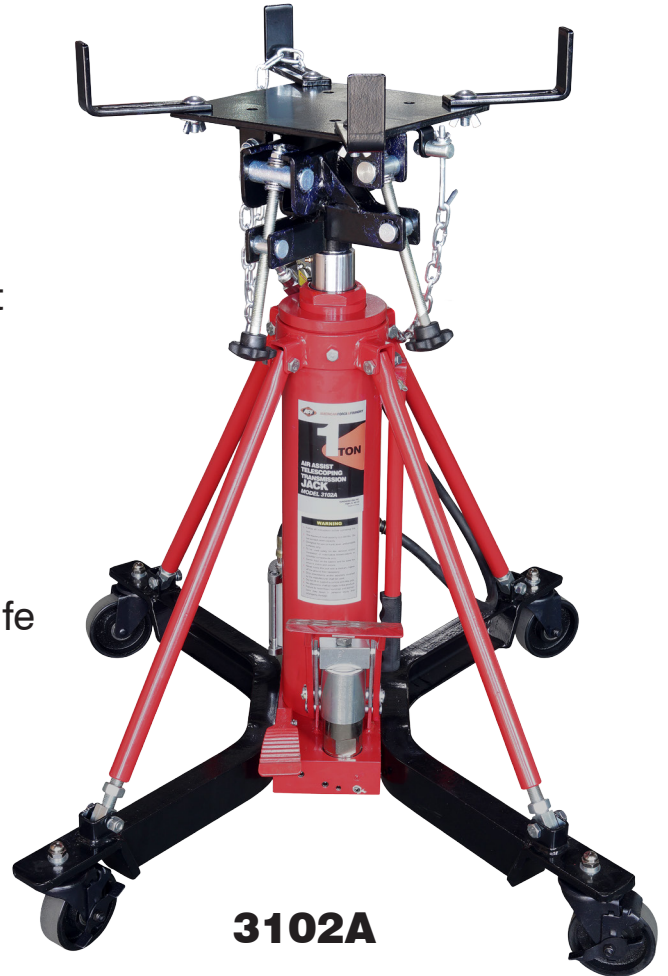
Loaded with Power...Built with Precision

3102A

2,000 lbs Telescoping Air Assist

Key Features and Benefits:

- Two stage telescopic ram designed for medium duty truck transmissions, transfer cases, and differentials
- Double pump hydraulic system for quick lift operation
- Powder coat finish provides resistance to corrosion, chemicals, and scratches
- Chrome plated pump core and piston rod reduces friction and provides long service life
- Adjustable saddle with corner bracket and safety chain
- Optional Fuel Tank Adapter (Model 3198) available. Includes safety straps and grounding cables.
- Adheres to ASME 2014



3102A

Model	Operation	Capacity Lbs.	Ram Stages	Low Height	High Height	Front Tilt	Rear Tilt	Base Width	Weight Lbs.
3052	Manual	1,100	2	37"	78"	28°	49°	28"X 32"	161
3052A	Air Assist	1,100	2	37"	78"	28°	49°	28"X 32"	170
3102	Manual	2,000	2	37"	76"	28°	49°	28"X 32"	174
3102A	Air Assist	2,000	2	37"	76"	28°	49°	28"X 32"	183

Rely on premium car jacks made by AFF if you're looking for quality and efficiency.