

JS647530

STEELMAN[®]

3-1/2 TON SERVICE JACK



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SPECIFICATIONS

Capacity	Min. Height	Max Height	Handle Length	Overall Length	Overall Width	Saddle Diameter	Shipping Weight
3-1/2 Ton	5-3/16"	21"	49-1/4"	28-3/8"	14-3/8"	4-5/16"	88 Lb.



This is the safety notification symbol. This symbol will notify you of any potential injury hazards. Please follow all instructions that follow this symbol to avoid possible injuries or death.

! WARNING

Indicates a hazardous situation. If proper steps are not followed, death or serious injury could result.



IMPORTANT: READ ALL INSTRUCTIONS BEFORE USE

Before operating this device, be sure to read all content within this manual, ensuring that you understand the operating procedures, maintenance requirements and all safety warnings. The owner and/or operator shall have an understanding of the product, its operating characteristics, and safety operating instructions before operating this device. Safety information shall be emphasized and understood. If the operator is not fluent in English, the product and safety instructions shall be read to and discussed with the operator in the operator’s native language by the purchaser/ owner or his designee, making sure that the operator comprehends their contents.

! WARNING

- Study, understand, and follow all instructions before operating this device.
- Do not exceed rated capacity.
- Use only on a hard, level surface.
- Support the vehicle with appropriate means immediately after lifting.
- Do not move or dolly the vehicle while it is 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 serious personal injury and/or property damage.

**SETUP,
OPERATION &
PREVENTATIVE
MAINTENANCE****SETUP**

- Prior to each use, visual inspection (see pg. 4) shall be made to the device by checking for abnormal conditions, such as cracked welds, leaks, and damaged, loose, or missing parts.
- Consult the vehicle owner's manual to determine the location of lift points.
- Be sure to set the vehicle in park with the emergency brake on and wheels securely chocked.
- Be sure that the vehicle and the jack are on a hard and level surface.

**ASSEMBLY**

- If two piece handles are provided, assemble the upper section into the lower section, line up the holes, and insert and tighten the screw.
- Insert the bottom end of the handle into the handle fork and securely tighten the bolt and washer. Ensure the handle can turn freely.

**LIFTING**

- Turn the handle/release valve clockwise to the closed position. Do not overtighten.
- Position the jack under the specified lift point.
- Begin lifting by pumping the handle up and down.
- Immediately after lifting, support the vehicle with appropriately rated jack stands.
- Turn the handle/release valve slowly counter-clockwise to lower the vehicle onto jack stands.

**LOWERING**

- Turn the handle/release valve clockwise to the closed position. Do not overtighten.
- Pump the handle up and down to lift the vehicle off jack stands.
- Remove the jack stands. Do not get under or let anyone get under the vehicle while lowering.
- Turn the handle/release valve slowly counter-clockwise to lower the vehicle to the ground.

**MAINTENANCE**

NOTICE: Use high grade hydraulic oil only. Never use brake fluid, motor oil, transmission fluid, turbine oil or any other fluids. ISO-VG22 or equivalent hydraulic oil is recommended.

CHECK AND REFILL OIL

- With the jack in the fully lowered, level position, if unit cover is provided, remove unit cover, then remove oil filler plug.
- Proper oil level should be just covering inner cylinder as seen from the oil filler plug hole.

**SETUP,
OPERATION &
PREVENTATIVE
MAINTENANCE****MAINTENANCE (CONTINUED)**

- Do not overfill. Always fill with new, clean hydraulic jack oil as recommended above.
- Reinstall oil filler plug, then reinstall unit cover.

LUBRICATION AND CLEANING

- Periodically clean and lubricate all moving parts and pivot points.

AIR VENTING PROCEDURES

- With the jack in the fully lowered position, release valve open, remove oil filler plug.
- Pump the handle rapidly several times. Reinstall oil filler plug.
- Turn the handle/release valve clockwise to the closed position.
- Pump the handle until the lift arm reaches maximum height and continue to pump several times to remove trapped air in the system.
- Turn the handle/release valve counter-clockwise in one full turn and lower lift arm to the lowest position. Use force on saddle if necessary.
- Carefully and slowly loosen oil filler plug to release pressurized air.
- Repeat above steps until trapped air is completely vented.

DAMAGED EQUIPMENT

Any jack that appears to be damaged in any way, is found to be worn, or operates abnormally **SHALL BE REMOVED FROM SERVICE UNTIL REPAIRED**. It is recommended that necessary repairs be made by a manufacturer's or supplier's authorized repair facility if repairs are permitted by the manufacturer or supplier.

ALTERATIONS

Because of potential hazards associated with this type of equipment, no alterations shall be made to the product.

ATTACHMENTS AND ADAPTERS

Only attachments and/or adapters supplied by the manufacturer shall be used.

**INSPECTION**

- Visual inspection shall be made before each use of the device by checking for abnormal conditions, such as cracked welds, leaks, and damaged, loose, or missing parts.
- Other inspections shall be made per product operating instructions.
- This device shall be inspected immediately if the device is believed to have been subjected to an abnormal load or shock. It is recommended that this inspection be made by a manufacturer's or supplier's authorized repair facility.
- Owners and/or operators should be aware that repair of this equipment may require specialized knowledge and facilities. It is recommended that an annual inspection of the product be made by a manufacturer's or supplier's authorized repair facility and that any defective parts, decals, or safety labels or signs be replaced with manufacturer's or supplier's specified parts.

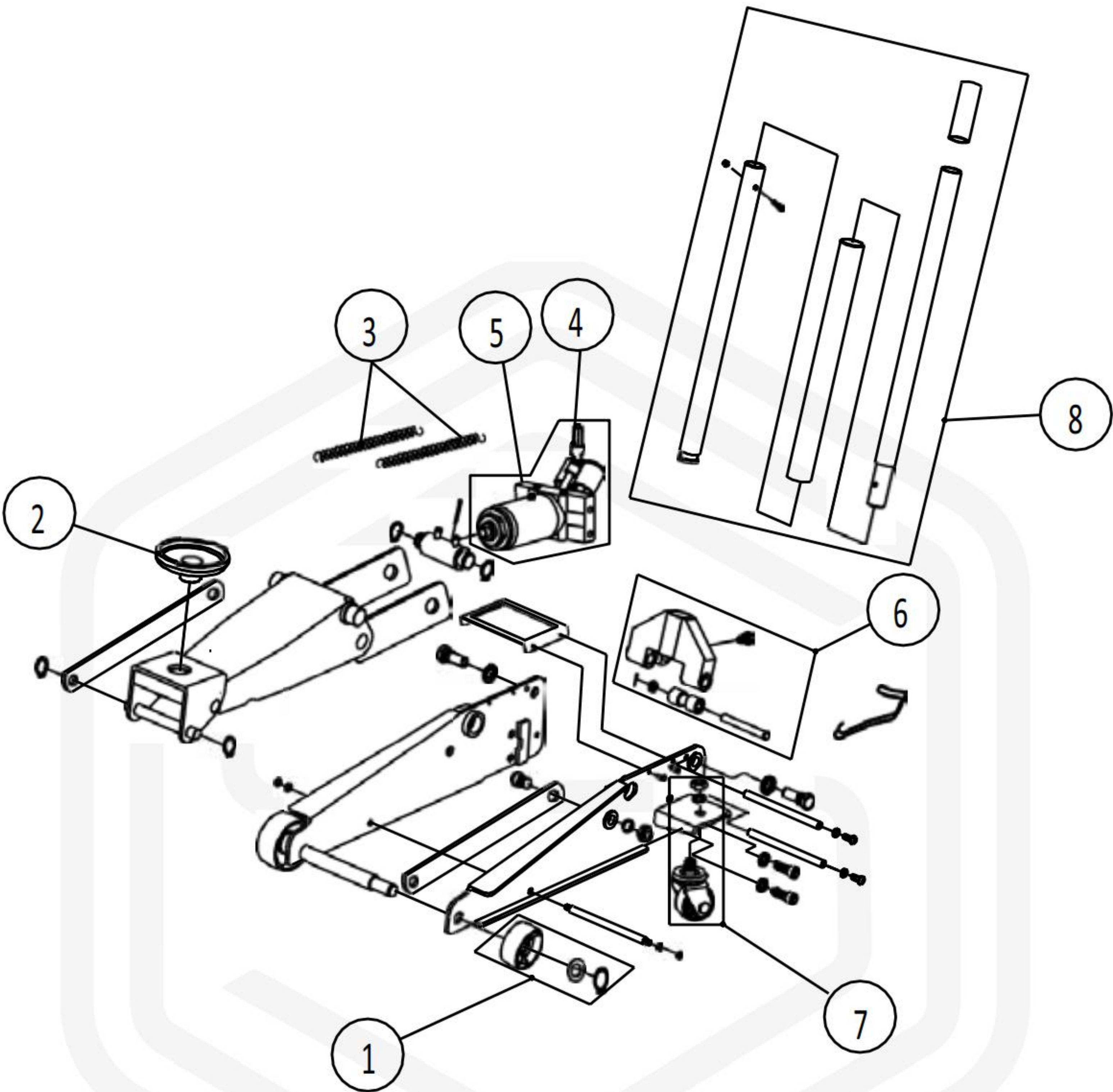
**INSPECTION,
STORAGE &
TROUBLE-
SHOOTING****! STORAGE**

- This jack should be stored in a dry location on a level surface.

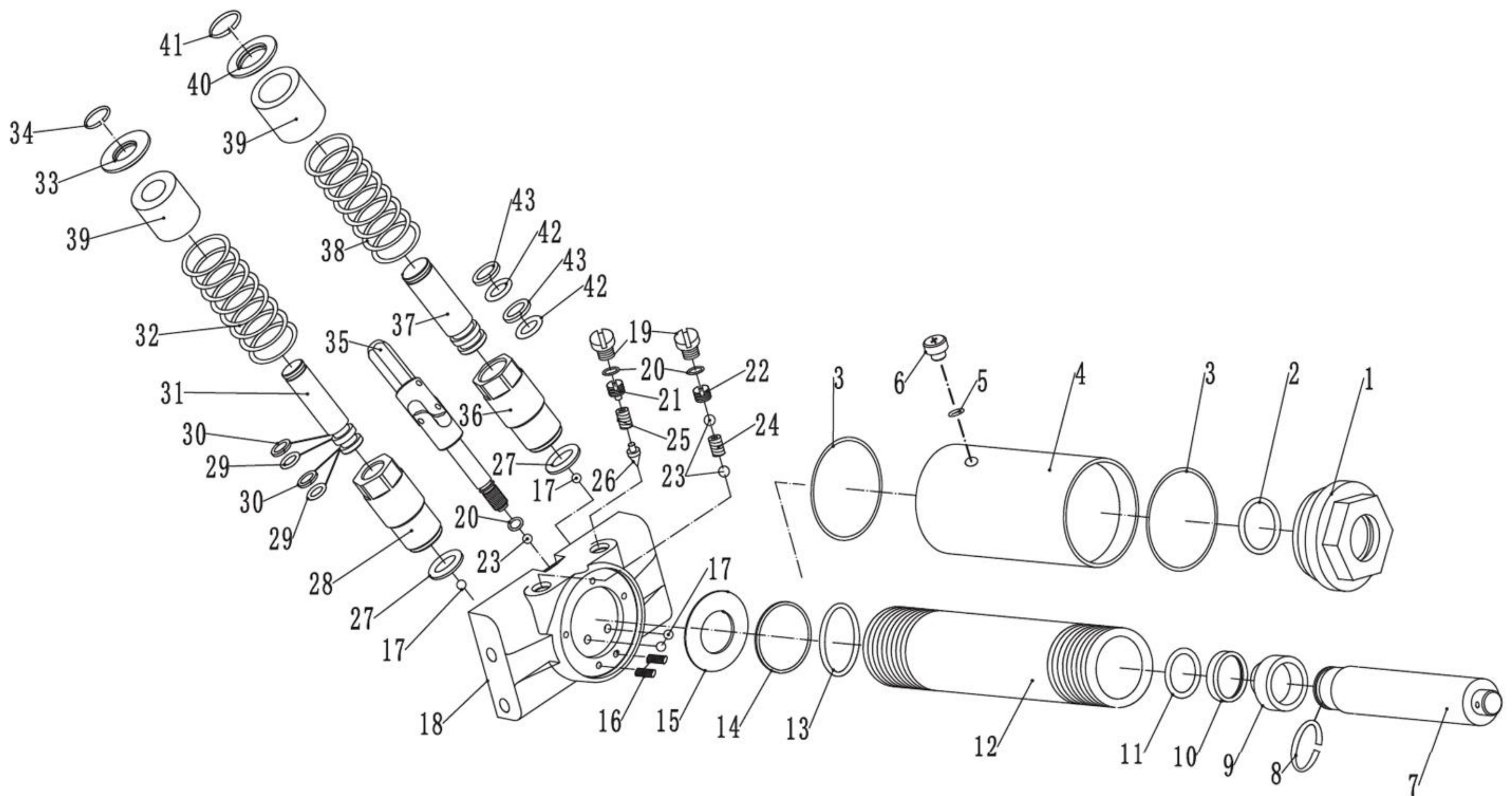
! TROUBLESHOOTING

Symptom	Possible Causes	Solution
Jack will not lift the load.	<ol style="list-style-type: none"> 1. Release valve not tightly closed. 2. Low oil level. 3. Defective or worn internal parts. 4. Load exceeds maximum allowance. 	<ol style="list-style-type: none"> 1. Tighten release valve. 2. Check and add oil. Follow "Check and Refill Oil" instructions on page 3-4. 3. Discontinue use and contact a local repair center. 4. Use a higher capacity jack.
Jack will not hold the load.	<ol style="list-style-type: none"> 1. Release valve not tightly closed. 2. Power unit malfunction 	<ol style="list-style-type: none"> 1. Tighten release valve. 2. Discontinue use and contact a local repair center.
Jack will not descend to minimum height, or will not remain in lowered position.	<ol style="list-style-type: none"> 1. Air trapped in system. 2. Reservoir oil overfilled. 	<ol style="list-style-type: none"> 1. Vent air out of system. Follow "Air Venting Procedures" above. 2. Check and ensure proper oil level. Follow "Check and Refill Oil" instructions on pgs 3-4.
Jack will not lift to max height.	<ol style="list-style-type: none"> 1. Low oil level. 	<ol style="list-style-type: none"> 1. Check and ensure proper oil level. Follow "Check and Refill Oil" instructions above.
Jack will not function properly after tried solution.	<ol style="list-style-type: none"> 1. Internal malfunction or structural damage. 	<ol style="list-style-type: none"> 1. Stop usage and contact an authorized repair center.

EXPLODED VIEW
&
REPLACEABLE
PART NUMBERS



Item	Part #	Description	Quantity
1	LYD3C-100	Front Wheel Assembly	2
2	LYD3F.5	Saddle	1
3	LYD2F-3	Return Springs	2
4	LYD3G-101	Release Valve Stem	1
5	LYD3N.5	Power Unit Assembly	1
6	LYD3G-300	Handle Fork Assembly	1
7	LYD3F-900	Rear Caster Assembly	2
8	LYD3G-600	Handle Assembly w/foam	1



No.	Factory Item	Description	Qty	No.	Factory Item	Description	Qty
1	LYDBI-3T.4-16	Top Nut	1	23	GB308-84-#7G10	Steel Ball-φ7	3
2	LYD2.6-1	O-Ring Ø29.6×3.5	1	24	LYS2.2-16	Low Pressure Compression Spring	1
3	LYD3B.5-4	O-Ring Ø65.8×3	2	25	LYD2.6-20	Safety Valve Spring	1
4	LYDBI-2T.3-3	Oil Reservoir Ø75×2.5	1	26	LYQ2U.4-3	Safety Valve Spring	1
5	LYD3F.4-12	O-Ring Ø9×2.65	1	27	LYD3E.6-12	Copper Washer-Ø25×14×0.7	2
6	LYQ2U.103B-13B	Oil Filler Cross Recessed Screw	1	28	LYD3F.4-5	Pump Cylinder (Small, Inner φ15)	1
7	LYD2G.3-9A	Piston Rod Ø30×150	1	29	LYD3I.4-3	O-Ring Ø10.2×2.65	2
8	LYDBI-3T.4-17	Steel Wire Washer-φ27.7×2	1	30	LYD3I.4-4	Split Washer-Φ15×10.6×1.25	2
9	LYDBI-3T.4-2	Piston Top	1	31	LYD3I.4-2	Small Pump Core	1
10	LYD2.6-5	Bowl Washer φ42×5.5	1	32	LYD3G.5D-1	Compression Spring (Ø35.5×4-96)	1
11	LYD2.6-6	O-Ring Ø32.8×4.6	1	33	LYD3F.4-9	Gasket for Cylinder Cover (φ15)	1
12	LYDBI-2T.3-2	Oil Cylinder-Ø52	1	34	LYD3F.4-10	Steel Wire Washer -φ15	1
13	LYD2.6-29	Nyln-Ring Ø46×Ø50.3×1	1	35	LYS2.2-8A	Release Valve Stem	1
14	LYD2.6-28	O-Ring Ø46.5×2.4	1	36	LYD2G.3-6	Pump Cylinder (Big)	1
15	LYD3G.5-5A	Copper Washer-Ø50.2×27×0.7	1	37	LYD2G.3-5	Pump Core (Big)	1
16	LYD3F.4-13	Filter Screen	2	38	LYD3F.4-8	Pump Core (Ø35.5×3-96)	1
17	GB308-84-#5G10	Steel Ball-φ5	5	39	LYD3F.4-8	Pump Cylinder Cover	2
18	LYD2G.3-1	Valve Body	1	40	LYD2G.3-12A	Gasket for Cylinder Cover (Ø20)	1
19	LYD2A.4-6B	Safety Valve Bolt	2	41	GB895.1-86-18	Steel Wire Washer -Ø20×1.8	1
20	LYQ2D.5-8	O-Ring Ø8×1.8	3	42	LYD2G.3-11	O-Ring Ø15×2.65	2
21	LYD2.6-18	Pressure Adjustment Screw	1	43	LYDBI-3T.4-18	Split Washer-φ20×φ15.6×1.25	2
22	LYD3G.5-13A	Speed Adjusting Screw	1				

WARRANTY**ONE YEAR LIMITED WARRANTY**

For a period of one (1) year from your purchase date, JS Products will repair or replace (at its option) without charge, 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 JS Products at 800.255.7011 for confirmation that this warranty applies. Thereafter, you may be advised to return the product under warranty, freight prepaid, to the JS Products service department.

If this STEELMAN® 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 STEELMAN® 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.

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) JS Products 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.

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