

OWNER'S MANUAL

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SPECIFICATIONS

Maximum Capacity1-1/2 TON	Maximum Capacity 2 TON	Maximum Capacity 3 TON
Minimum Height3.35"	Minimum Height 3.5"	Minimum Height 3.8"
Maximum Height14.57"	Maximum Height 19.3"	Maximum Height 19.3"
Chassis Length..... 22.83"	Chassis Length.....26.5"	Chassis Length.....26.4"
Overall Width9.84"	Overall Width 13"	Overall Width 13"
Handle Length 36.42"	Handle Length 50"	Handle Length 47.6"
Saddle Diameter.....3.78"	Saddle Diameter.....4.6"	Saddle Diameter..... 4.5"
Shipping Weight29.76 LBS.	Shipping Weight 52.9 Lbs.	Shipping Weight 58.4 Lbs.

WARNING! The following safety information should be read and followed to prevent death and and serious injury, and/or product failures or damages.
Follow this safety information to help ensure a safe working standard and environment.

1. Do not use a hydraulic jack as means of supporting your vehicle while working on it. Instead, use jack stands to rest the weight of the vehicle on when working underneath of it.
2. Always have vehicle and jack stands on a solid, level surface to prevent slipping/shifting and possible injury, death and/or damages. **DO NOT USE JACK AND/OR JACK STANDS ON GRAVEL!**
3. Remove the ground cable from the negative battery terminal, to prevent any accidental injuries or damages from electrical contact.
4. Never run vehicle in enclosed space for extended periods of time due to toxic fumes coming from exhaust. Always make certain work space is a well-ventilated open shelter or outdoors, to promote adequate air flow.
5. Eye and ear protection is recommended when using power tools on your vehicle.

KEEP THESE INSTRUCTIONS

WARNING INFORMATION



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



WARNING: Indicates a hazardous situation which, if not avoided, could result in death or serious injury.



IMPORTANT: READ THESE INSTRUCTIONS BEFORE OPERATING

BEFORE USING THIS DEVICE, READ THIS MANUAL COMPLETELY AND THOROUGHLY, UNDERSTAND ITS OPERATING PROCEDURES, SAFETY WARNINGS AND MAINTENANCE REQUIREMENTS.

It is the responsibility of the owner to make sure all personnel read this manual prior to using the device. It is also the responsibility of the device owner to keep this manual intact and in a convenient location for all to see and read. If the manual or product labels are lost or not legible, contact Speedway Motors for replacements. 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 its contents.

THE NATURE OF HAZARDOUS SITUATIONS

WARNING

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

METHODS TO AVOID HAZARDOUS SITUATIONS

WARNING

-  Read, study, understand and follow all instructions before operating this device.
- 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 components. Make corrections before using.
- Lift only on areas of the vehicle as specified by the vehicle manufacturer.
-  User and bystanders must wear eye protection that meets ANSI Z87.1 and OSHA standards.
- Do not use jack beyond its rated capacity. Do not shock load.
-  **This is a lifting device only. Immediately after lifting, support the vehicle with jack stands capable of sustaining the load before working on the vehicle.**
- Use only on a hard level surface free from obstructions so the jack is free to reposition itself during lifting and lowering operations.
- Center load on saddle. Be sure setup is stable before working on vehicle.
- Do not move or dolly the vehicle while on the jack.
- Do not use any materials that may serve as risers, spacers or extenders between the stock lifting saddle and the load.
- Do not use any adaptors that replace the stock lifting saddle unless approved or supplied by the jack manufacturer.
- Do not use (or modify) this product for any other purpose than that for which it was designed without consulting the manufacturer's authorized representative.
- Always lower the jack slowly and carefully.
- Failure to heed these warnings may result in serious or fatal personal injury and/or property damage.

CONSEQUENCES OF NOT AVOIDING HAZARDOUS SITUATIONS

WARNING

Failure to read this manual completely and thoroughly, failure to understand its OPERATING INSTRUCTIONS, SAFETY WARNINGS, MAINTENANCE INSTRUCTIONS and comply with them, and failure to comply with the METHODS TO AVOID HAZARDOUS SITUATIONS could cause accidents resulting in serious or fatal personal injury and/or property damage.



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.

SETUP AND OPERATING INSTRUCTIONS

SETUP INSTRUCTIONS

PLEASE REFER TO THE RESPECTIVE EXPLODED VIEW DRAWING (pg. 7, 8, or 9) IN THIS MANUAL IN ORDER TO IDENTIFY PARTS.

- 1-1/2 TON JACK: pg. 7 | parts #22, #23, #25, #24, #21 listed in steps below
- 2 TON JACK: pg. 8 | parts #41, #42, #43, #47, #57 listed in steps below
- 3 TON JACK: pg. 9 | parts #14, #15, #13, #12, #22 listed in steps below

1. Depress the spring button at the bottom of the (#22, #41, or #14) upper handle half and insert it in the (#23, #42, or #15) lower handle half until the spring button engages the hole in the lower handle half.
2. Remove the (#25, #43, or #13) handle set screw in the (#24, #47, or #12) handle yoke, making sure the bottom of the handle engages the release control valve u-joint (#21, #57, or #22).
3. Install the (#25, #43, or #13) handle set screw in the (#24, #47, or #12) handle yoke and tighten the screw to secure the handle in the yoke.

IMPORTANT: In most cases the jack should work normally right out of the box but it is not unusual for air to get trapped in the jack's hydraulic system during shipping and handling. There are several symptoms of an air trapped hydraulic system which include only partial incremental pump stroke, jack will not lift load, jack will not sustain load or pumping feels spongy under load. The following procedure will purge air from the hydraulic system and only needs to be done if experiencing the above mentioned conditions.

- 1-1/2 TON JACK: pg. 7 | parts #3, #20, #22 listed in steps below
- 2 TON JACK: pg. 8 | parts #3, #39, #41 listed in steps below
- 3 TON JACK: pg. 9 | parts #3, #18, #14 listed in steps below

1. The (#3) saddle should be in its lowest position. Remove the oil filler plug in the reservoir of the (#20, #39, or #18) hydraulic power unit.
2. Look inside the oil fill plug hole. You should be able to see the top of the power unit's cylinder. The hydraulic fluid level should be no higher than the top of the cylinder. Correct the fluid level if it is not at the proper height. **CAUTION:** In order to prevent seal damage and jack failure, never use alcohol, hydraulic brake fluid, or transmission oil in the jack. Use hydraulic jack oil, a light turbine oil, Chevron Hydraulic Oil AW ISO 32 or Unocal Unax AW 150.
3. Close the release valve by turning the (#22, #41, or #14) handle clockwise until it stops. Pump the jack against a load of at least 500 pounds (225 Kgs). After the load is raised to maximum height, slightly turn the (#22, #41, or #14) handle in a counterclockwise direction so the load is very slowly lowered, while simultaneously and quickly pumping the handle 5 or 6 full incremental pump strokes. After pumping, lower the lift arm to its full rest position.
4. Repeat steps 3) through 4) until all the air has been purged from the system.

OPERATING INSTRUCTIONS



This is the safety alert symbol used for the OPERATING INSTRUCTIONS section of this manual to alert you to potential personal injury hazards. Obey all instructions to avoid possible injury or death.

IMPORTANT: Before attempting to raise any vehicle, check vehicle service manual for recommended lifting surfaces.

OPERATION:

1. **To raise load:** Turn the handle in a clockwise direction until tight. Position the jack under the load. Proceed to pump the handle in order to raise the lift arm to the load. As the saddle at the end of the lift arm gets closer to the load, reposition the jack so the saddle will contact the load firmly and the load is centered on the saddle. Make sure the saddle is correctly positioned. Raise the load to the desired work height. Place jack stands of appropriate capacity at the vehicle manufacturers's recommended support areas that provide stable support for the raised vehicle. **DO NOT CRAWL UNDER VEHICLE WHILE LIFTING VEHICLE OR PLACING OR REMOVING THE JACK STANDS!** Once jack stands are positioned, turn the handle VERY SLOWLY. Lower the load to rest on the jack stands. Inspect the relationship between the jack stands and load to make sure the setup is stable and safe. If the setup is not stable or safe, follow the preceding steps until corrected.
2. **To lower load:** Follow the procedures mentioned in "To raise load" section of the OPERATING INSTRUCTIONS in order to raise the load off the jack stands. Once the load has cleared the jack stands, remove the jack stands from under the load and away from the work area. Turn handle very slowly in a counterclockwise direction until the load is completely lowered to the ground. Once the jack's lifting saddle has cleared the load, remove the jack from under the load. **CAUTION!** Keep hands and feet away from the hinge mechanism of the jack. **DO NOT CRAWL UNDER VEHICLE WHILE LIFTING VEHICLE OR PLACING OR REMOVING THE JACK STANDS!**

ALUMINUM SERVICE JACK

PREVENTATIVE MAINTENANCE AND TROUBLESHOOTING

PREVENTATIVE MAINTENANCE



This is the safety alert symbol used for the PREVENTATIVE MAINTENANCE section of this manual to alert you to potential personal injury hazards. Obey all instructions to avoid possible injury or death.

1. Always store the jack in a well protected area where it will not be exposed to inclement weather, corrosive vapors, abrasive dust, or any other harmful elements. The jack must be cleaned of water, snow, sand, grit, oil, grease or other foreign matter before using.
2. The jack must be lubricated periodically in order to prevent premature wearing of parts. A general purpose grease must be applied to all zerk grease fittings, caster wheels, front axle, elevator arm, handle base pivot bolts, release mechanism and all other bearing surfaces. Worn parts resulting from inadequate or no lubrication are not eligible for warranty consideration. See page 6 for lubrication instructions.
3. It should not be necessary to refill or top off the reservoir with hydraulic fluid unless there is an external leak. An external leak requires immediate repair which must be performed in a dirt-free environment by an authorized service center.

IMPORTANT: In order to prevent seal damage and jack failure, never use alcohol, hydraulic brake fluid or transmission oil in the jack. Use Chevron Hydraulic Oil AW ISO 32 or its equivalent Unocal Unax AW 150.

4. Every jack owner is responsible for keeping the jack labels clean and readable. Use a mild soap solution to wash external surfaces of the jack but not any moving hydraulic components.
5. Inspect the jack before each use. Do not use the jack if any component is cracked, broken, bent, shows sign of damage or leaks hydraulic fluid. Do not use the jack if it has loose or missing hardware or components, or is modified in any way. Take corrective action before using the jack again.
6. Any hydraulic repairs within the warranty period must be performed by an authorized service center.

INSPECTION

Visual inspection should be made before each use of the jack, checking for leaking hydraulic fluid and damaged, loose or missing parts. Each jack must be inspected by a manufacturer's repair facility immediately if subjected to an abnormal load or shock. Any jack which appears to be damaged in any way, is found to be badly worn, or operates abnormally **MUST BE REMOVED FROM SERVICE** until necessary repairs are made by a manufacturer's authorized repair facility. It is recommended that an annual inspection of the jack be made by a manufacturer's authorized repair facility and that any defective parts, decals or warning labels be replaced with manufacturer's specified parts. A list of authorized repair facilities is available from the manufacturer.

PROPER STORAGE

It is recommended that the jack be stored in a dry location with all wheels touching the ground on a level surface.

TROUBLESHOOTING

IMPORTANT: Service jacks are self-contained devices used for lifting, but not sustaining, a partial vehicular load. In accordance with ASME-PALD Load Sustaining Test: "A load not less than the rated capacity...shall not lower more than 1/8" (3.18mm) in the first minute, nor a total of .1875" (4.76mm) in 10 minutes." Lowering within this range is considered normal operation and is NOT a warrantable defect.

PROBLEM	ACTION
1. Unit will not lift rated load.	Purge air from hydraulic system by following procedure under SETUP.
2. Unit will not sustain rated load or feels "spongy" under rated load.	Purge air from hydraulic system as above.
3. Unit will not lift to full height.	Purge air from hydraulic system as above.
4. Handle tends to raise up while the unit is under rated load.	Pump the handle rapidly several times to push oil past ball valves in power unit.
5. Unit still does not operate.	Contact Speedway Motors authorized hydraulic service center.

OWNER/USER RESPONSIBILITY

The owner and/or user must have an understanding of the manufacturer's operating instructions and warnings before using this jack. Personnel involved in the use and operation of equipment shall be careful, competent, trained, and qualified in the safe operation of the equipment and its proper use when servicing motor vehicles and their components. Warning information should be emphasized and understood. If the operator is not fluent in English, the manufacturer's instructions and warning shall be read to and discussed with the operator in the operator's native language by the purchaser/owner, making sure that the operator comprehends its contents. Owner and/or user must study and maintain for future reference the manufacturers' instructions. Owner and/or user is responsible for keeping all warning labels and instruction manuals legible and intact. Replacement labels and literature are available from the manufacturer.

ALUMINUM SERVICE JACK

LIMITED WARRANTY

Speedway Motors will repair or replace its Speedway Motors 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, Speedway Motors 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 Speedway Motors or its authorized warranty service centers. The foregoing obligation is Speedway Motors 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. Return equipment or parts to an authorized service center, transportation prepaid. Be certain to include your name and address, evidence of the purchase date, and description of the suspected defect. If you have any questions about warranty service, please write to Speedway Motors. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

ALUMINUM SERVICE JACK

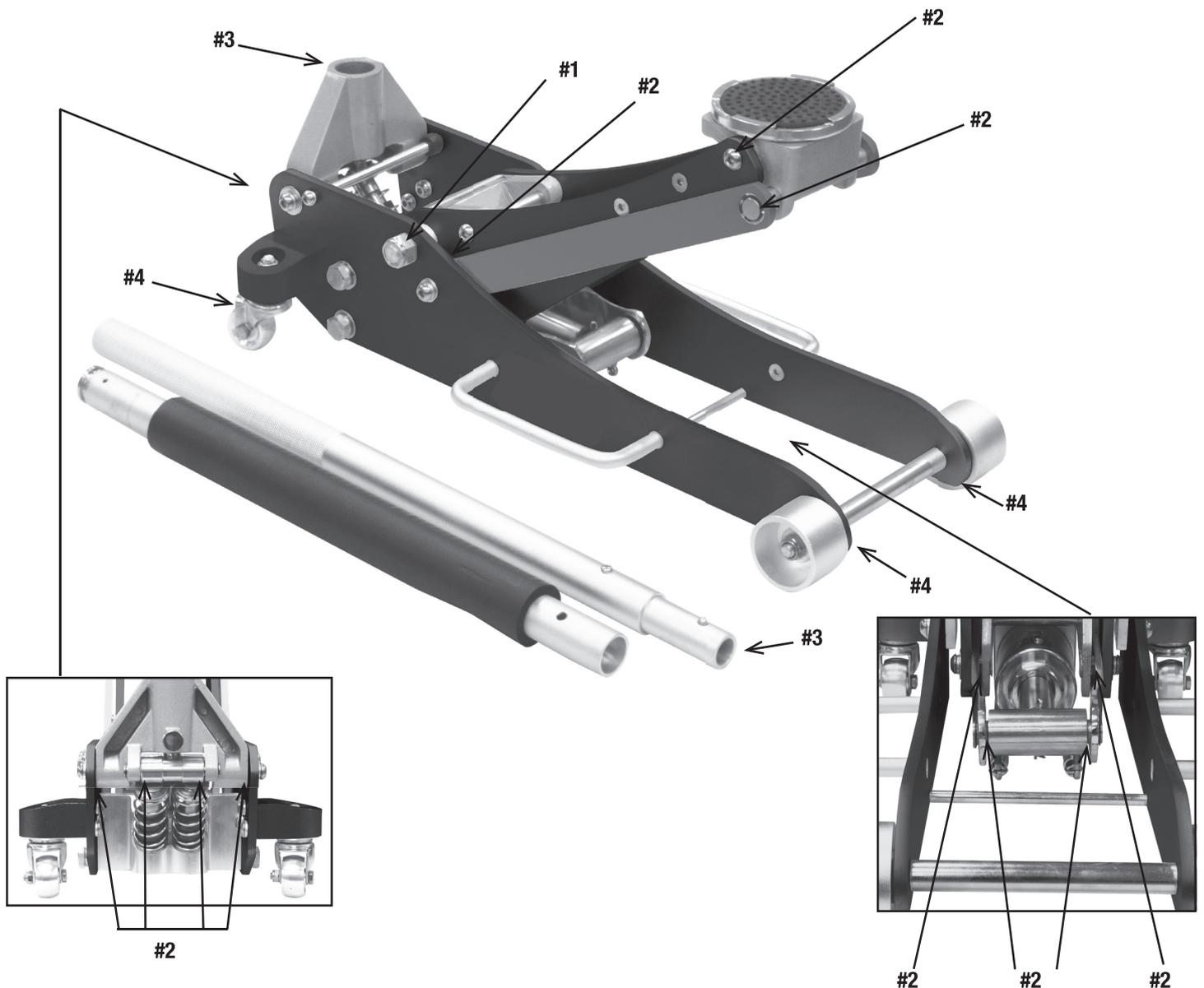
HYDRAULIC MAINTENANCE GUIDE

IMPORTANT: Service jacks are designed for lifting purposes only; always support raised load with jack stands.

REGULAR MAINTENANCE

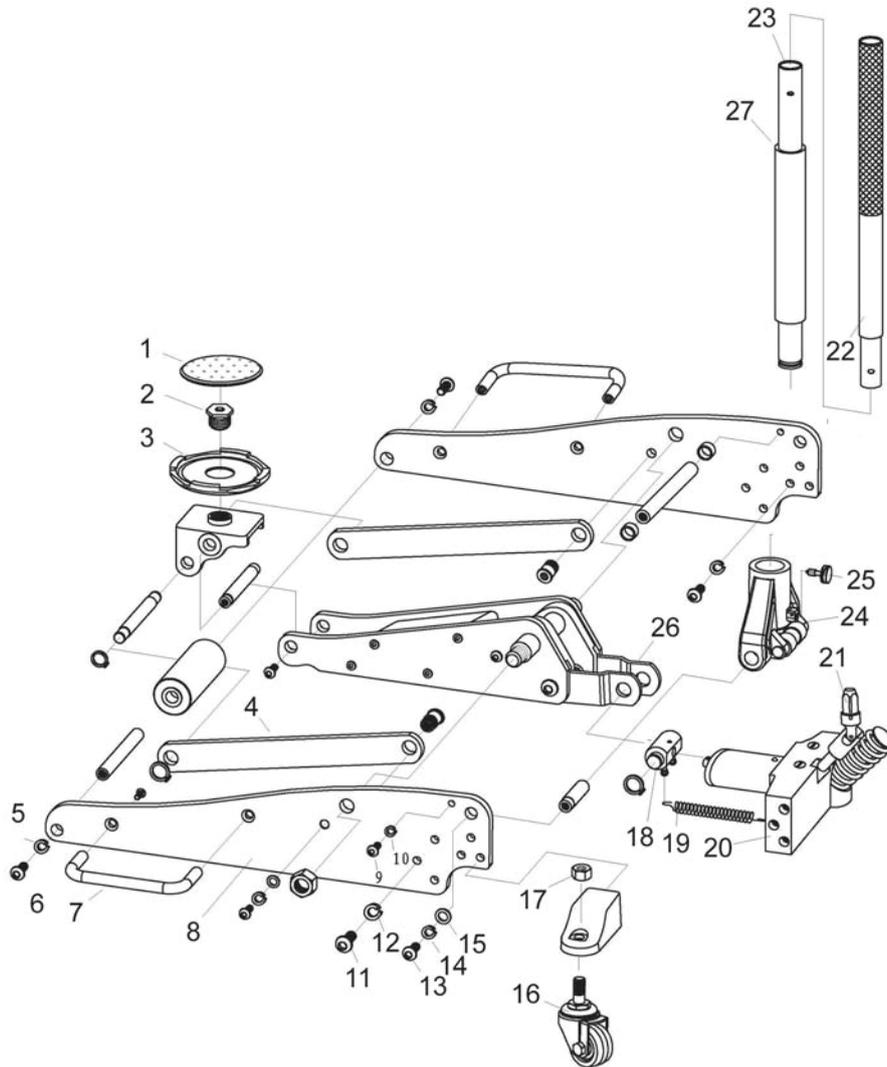
• **MONTHLY or as necessary (depending on usage)**

1. Using a grease gun, add grease to grease fitting in the lift arm pivot shaft.
(Use a multi-purpose NLGI type grease only.)
2. Lubricate all linkages and pivot points.
(Use white lithium spray grease only.)
3. Remove handle; lubricate handle receptacle and handle end.
(Use white lithium spray grease only.)
4. Lubricate both rear casters, bearing and both front wheels.
(Use white lithium spray grease only.)
5. Tighten all accessible hardware.



PARTS LIST AND DRAWING

1-1/2-TON ALUMINUM SERVICE JACK

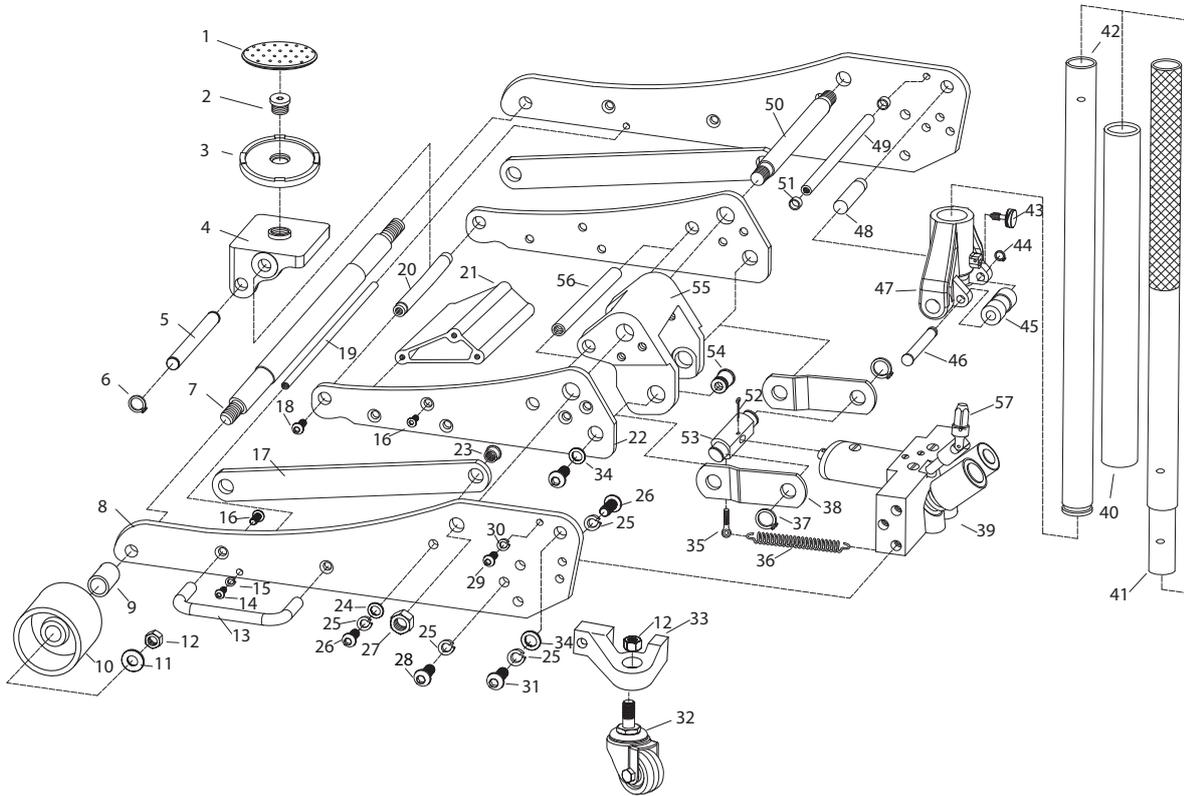


No	DESCRIPTION	Qty
1	Saddle Pad	1
2	Saddle Fixing Screw	1
3	Saddle	1
4	Side Arm	2
5	Spring Washer	2
6	Socket Head Screw	2
7	Side Handle	2
8	Side Plate	2
9	Socket Head Screw	2
10	Spring Washer	2
11	Socket Head Screw M10 x25	6
12	Spring Washer 10	6
13	Socket Head Screw M8 x 16	2
14	Spring Washer	2

No	DESCRIPTION	Qty
15	Washer	2
16	Swivel Castor	2
17	Nut M10	2
18	Connecting Block	1
19	Return Spring	2
20	Pump Assembly	1
21	Control Swivel	1
22	Upper Handle	1
23	Lower Handle	1
24	Yoke	1
25	Thumb Screw	1
26	Main Lifting Arm	1
27	Protective Sleeve	1

PARTS LIST AND DRAWING

2-TON ALUMINUM SERVICE JACK

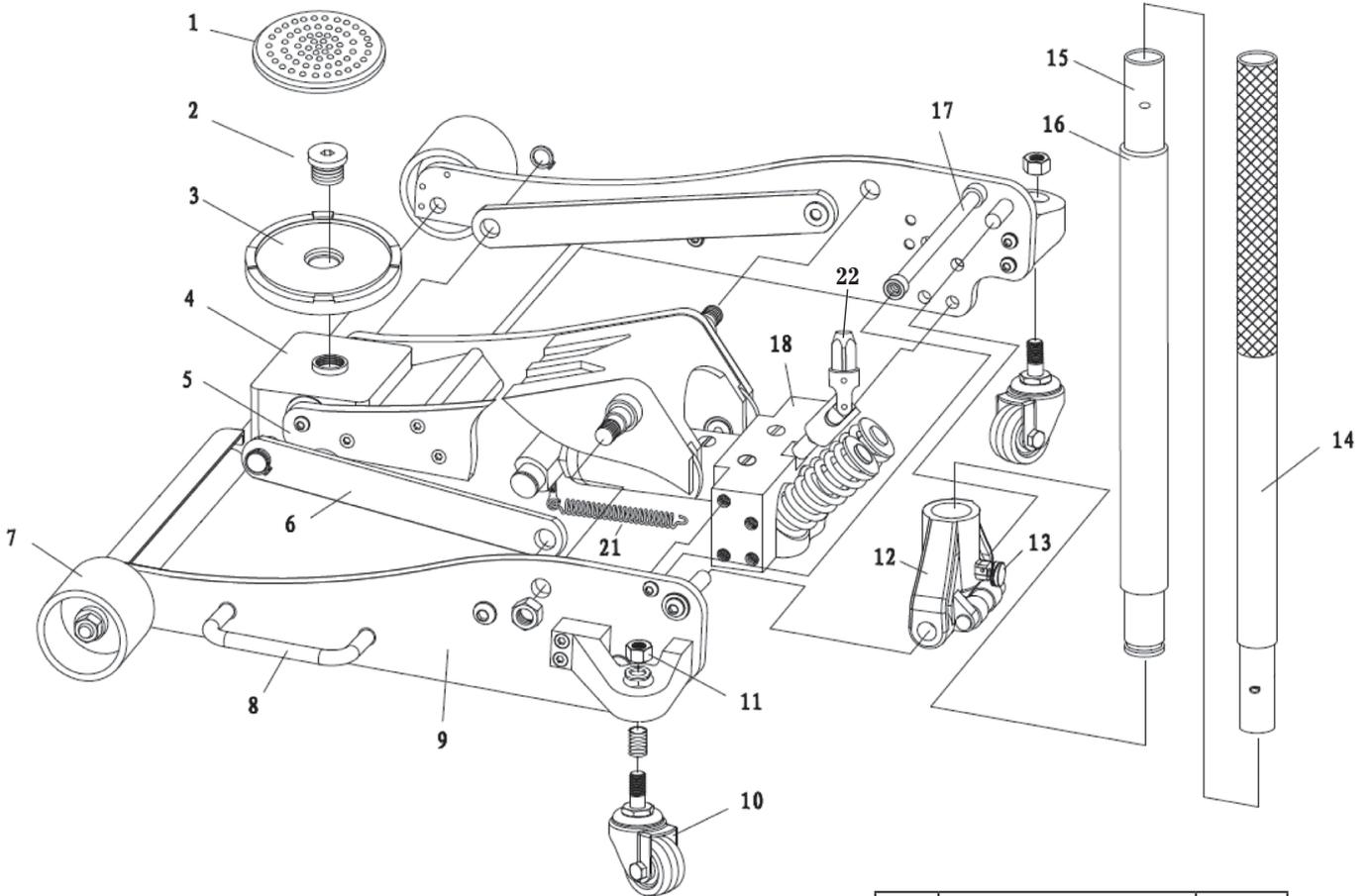


No.	DESCRIPTION	Qty
1	Saddle Pad	1
2	Saddle Screw	1
3	Saddle	1
4	Saddle Base	1
5	Radius Linkage Axle	1
6	Retaining Ring(16)	2
7	Front Wheel Axle	1
8	Side Plate	2
9	Bushing	2
10	Front Wheel	2
11	Washer	2
12	Locking Nut(M12)	4
13	Handle	2
14	Bolt(M6*25)	2
15	Tooth Washer(M6)	2
16	Bolt(M8*25)	14
17	Radius Linkage	2
18	Bolt	2
19	Rod	1
20	Saddle Base Axle	1
21	Lift Arm Core	1
22	Lift Arm Side	2
23	Radius Linkage Axle Bolt	2
24	Washer(M10)	2
25	Spring Washer(M10)	12
26	Bolt(M10*25)	8
27	Locking Nut(M18)	2
28	Bolt(M10*35)	2
29	Bolt(M18*25)	2

No.	DESCRIPTION	Qty
30	Washer(M8)	2
31	Bolt(M10*20)	2
32	Rear Caster	2
33	Rear Caster Bracket	2
34	Washer(M10)	4
35	Bolt(M6*25)	2
36	Spring	2
37	Washer(M19)	2
38	Linkage	2
39	Power Unit Assembly	1
40	Handle Bumper	1
41	Upper Handle Section	1
42	Lower Handle Section	1
43	Handle Set Screw	1
44	Retaining Ring 12	1
45	Pump Roller	1
46	Pump Roller Axle	1
47	Handle Yoke	1
48	Yoke Axle	2
49	Rod	1
50	Lift Arm Axle	1
51	Rubber Guard	2
52	Pin(4*45)	1
53	Linkage Block	1
54	Linkage Pin	2
55	Lift Arm Mounting Plate	1
56	Axle,Lift Arm Mouting Plate	1
57	Control Swivel	1

PARTS LIST AND DRAWING

3-TON ALUMINUM SERVICE JACK



No.	DESCRIPTION	Qty
1	Rubber Pad	1
2	Nut	1
3	Saddle	1
4	Saddle Base	1
5	Lift Arm Assembly	1
6	Radius Linkage	2
7	Front Wheel	2
8	Carrying Handle	2
9	Side Plate	2
10	Rear Caster Assembly	2
11	Nut M12 (incl#10)	2
12	Handle Yoke	1
13	Handle Set Screw	1
14	Handle, Upper Section	1
15	Handle, Lower Section	1
16	Handle Bumper	1
17	Tie Rod	1
18	Pump Assembly	1
19	Seal Kit	1
20	Hardware Kit	1
21	Return Spring and Eyelet	1
22	Control Swivel	1