

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

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 Arcan Customer Service for a free replacement. 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 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 bystander 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 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.

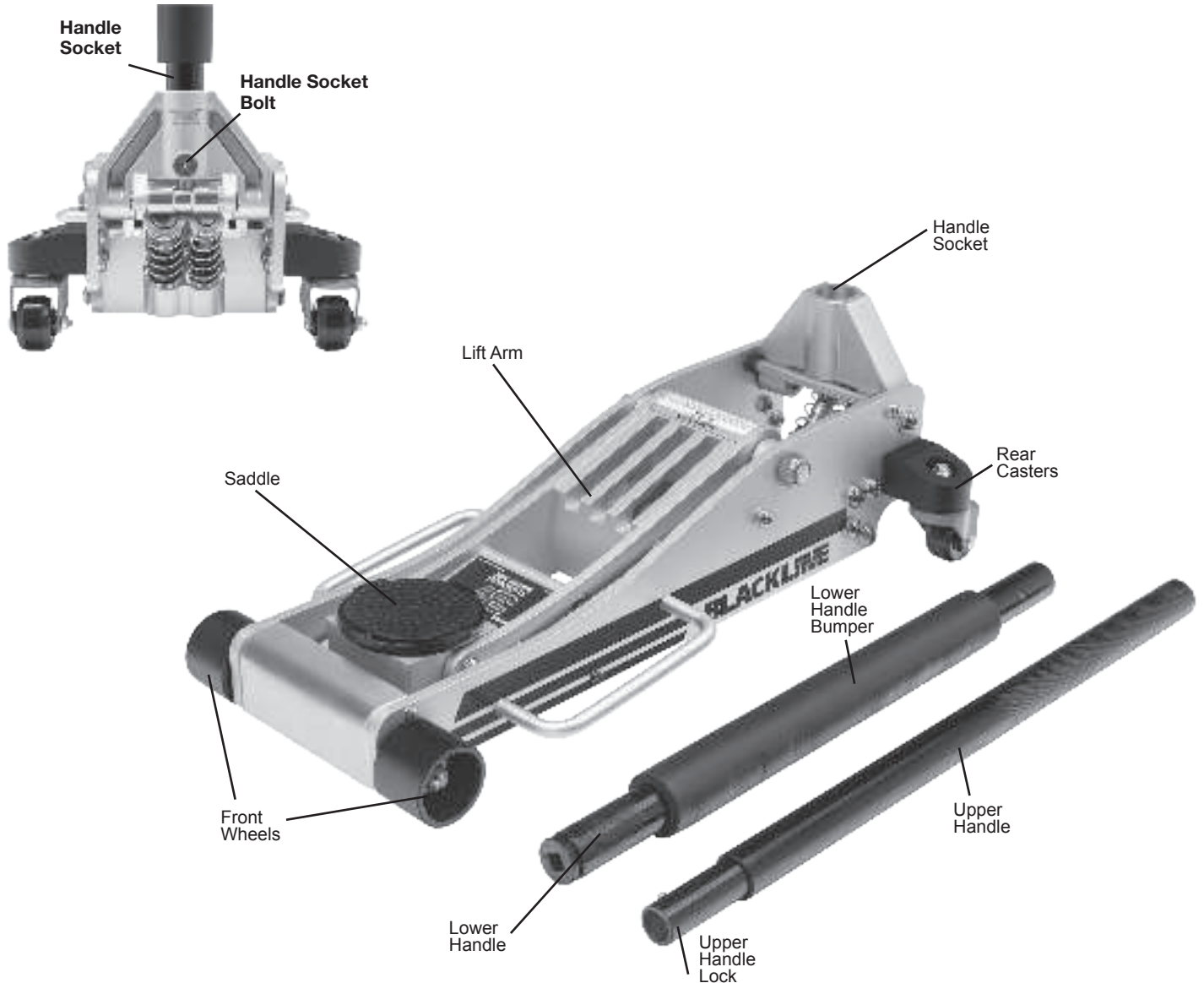
CONSEQUENCES OF NOT AVOIDING HAZARDOUS SITUATIONS

WARNING

Failure to read this manual completely and thoroughly, understand its OPERATING INSTRUCTIONS, SAFETY WARNINGS, MAINTENANCE INSTRUCTIONS and not comply with them, and neglecting the METHODS TO AVOID HAZARDOUS SITUATIONS could cause accidents resulting in serious or fatal personal injury and/or property damage.

INSPECTION

Visual inspection should be made before each use of the jack, checking for leaking hydraulic fluid and damaged, loose or missing parts. 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.



SETUP

1. Depress the spring button at the bottom of the handle half and insert it in the lower handle half until the spring button engages the hole in the lower handle half.
2. Remove the handle set screw from the handle yoke. Install the assembled handle into the handle yoke making sure the bottom of the handle engages the release valve u-joint.
3. Install the handle set screw in the 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.

- a) The saddle should be in its lowest position. Remove the oil filler plug in the reservoir of the hydraulic power unit.
- b) 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.

SETUP (CONT.)

- c) Close the release valve by turning the 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 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.
- d) Install the oil fill plug. Rotate the handle in a clockwise direction until tight and pump the lift arm to maximum height without a load. Repeat steps a) through d) until all the air has been purged from the system.

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

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. Put vehicle transmission in park or in gear and then apply the emergency brake.
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 jack handle VERY SLOWLY in a counterclockwise direction to 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. **DO NOT CRAWL UNDER VEHICLE WHILE LIFTING VEHICLE OR PLACING OR REMOVING THE JACK STANDS!** 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.

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 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 4 for lubrication instructions.
- IMPORTANT:** 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 AW ISO 32 or Unocal Unax AW 150.
3. 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.
 4. 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.

PROPER STORAGE

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

HYDRAULIC MAINTENANCE GUIDE

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

REGULAR MAINTENANCE

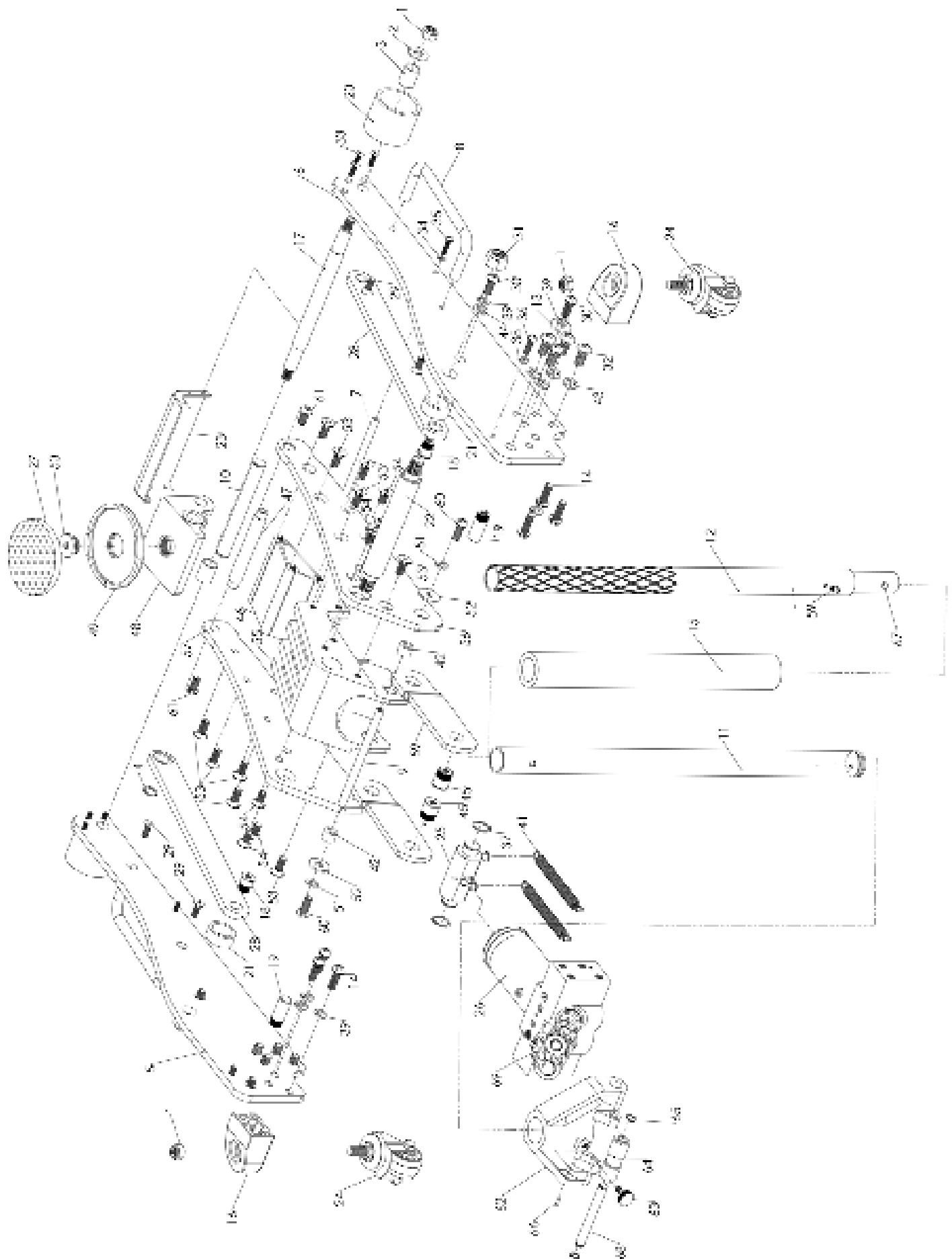
MONTHLY or as necessary (depending on usage)

- #1 Lubricate all linkages and pivot points.
(Use white lithium spray grease only.)
- #2 Remove handle; lubricate handle receptacle and handle end.
(Use white lithium spray grease only.)
- #3 Lubricate both rear casters bearings and both front wheels.
(Use white lithium spray grease only.)

Tighten all accessible hardware.



EXPLODED VIEW



REPLACEMENT PARTS

ITEM NO	MODEL NO	DESCRIPTION	QTY	ITEM NO	MODEL NO	DESCRIPTION	QTY
1	RSALJ301	LOCK NUT (EACH)	4	36		BUTTON HEAD M8x1.25-25mm LG	2
2	RSALJ302	FRONT WHEEL WASHER (EACH)	2	37		RETAINING RING 22mm	2
3		FRONT WHEEL WASHER	2	38		LOCK WASHER 8mm	2
4		RETAINING RING 18mm	2	39		LOCK WASHER 10mm	10
5		LEFT SIDE PLATE	1	40		COTTER PIN 3mmX40mm LG	1
6		RIGHT SIDE PLATE	1	41	RS200003327	RETRACTION SPRING (EACH)	2
7		BRACE PIN	1	42		RUBBER STOP	2
8		LIFTING HANDLE	2	43		LOCK WASHER M12	8
9		STOP BAR	1	44		WASHER M10	2
10		GUIDE ARM PIVOT PIN	1	45		TRUNNION LINK ARM NUT	2
11	RSALJ311	LOWER HANDLE	1	46		LIFT ARM FRONT SPACER	1
12	RSALJ312	UPPER HANDLE	1	47		SADDLE PIVOT PIN	1
13		OVERSIZE WASHER M10	2	48		SADDLE BASE	1
14		BUTTON HEAD M10x1.530mm - LG	6	49	RS20000340	SADDLE	1
15	RS20000322	HANDLE BUMPER	1	50	RSALJ350	SADDLE SCREW	1
16		REAR CASTER BRACKET	2	51		LOCK WASHER 10mm	2
17		FRONT AXLE	1	52		OVERSIZE WASHER M10	2
18		GUIDE ARM NUT	2	53		FLAT HEAD M10x1.5-25mm LG	10
19		HANDLE YOKE PIVOT PIN	2	54		FLAT HEAD M10x1.5-20mm LG	6
20	RSALJ320	FRONT WHEEL (EACH)	2	55		LIFT ARM REAR SPACER	1
21		LIFT ARM SPACER	2	56		RIGHT LIFT ARM SIDE PLATE	1
22		PIVOT PIN	1	57		LEFT LIFE ARM SIDE PLATE	1
23		FRONT PLATE	1	58		TRUNNION LINK ARM	2
24	RSALJ324	SWIVEL CASTER (EACH)	2	59		BUTTON HEAD SCREW M6X1-12mm LG	1
25		TRUNNION ASSEMBLY	1	60		BUTTON HEAD M10x1.5-25mm LG	2
26	RSALJ326	HYDRAULIC UNIT	1	61		BUTTON HEAD M10x1.5-20mm LG	2
27	RSAHL327	RUBBER SADDLE PAD	1	62	RSALJ361	HANDLE YOKE	1
28		GUIDE ARM	2	63	RSALJ362	HANDLE SET SCREW	1
29		FLAT HEAD M8x1.25-22mm LG	4	64		HANDLE YOKE ROLLER	1
30		BUTTON HEAD M10x1.5-25mm LG	4	65		RETAINING RING 12mm	2
31		LOCK NUT M18x2.5	2	66		SPRING PIN 3MMx14MM LG	1
32		BUTTON HEAD M12x1.75-25mm LG	8	67	RSALJ367	PUSH BUTTON	1
33		FLAT HEAD M6x1-20mm LG	6	68		YOKE ROLLER PIN	1
34		LOCK WASHER M6	2	69	RSALJ369	RELEASE ASSEMBLY	1
35		BUTTON HEAD M6x1-25mm LG	2	NOT SHOWN		PRODUCT LABEL KIT	1

TROUBLESHOOTING

Important: Service jacks are self-contained devices used for lifting, but not sustaining, a partial vehicular load. In accordance with ASME PASE-2019 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. Unit will not lower completely.	Check oil level. Make sure hydraulic system is not overfilled.
5. 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.
6. Unit still does not operate.	Contact customer service

SPECIFICATIONS

Capacity	3 Tons	Handle Length in.	47.4"
Minimum Lift Height in.	3.85"	Product Length in.	26.97"
Maximum Lift Height in.	19.4"	Product Width in.	12.83"
Rear Caster Size in.	1.98"	Product Height in.	6.69"
Front Wheel Size in.	2.57"	Product Weight lbs.	55 lbs.
Saddle Diameter in.	4.57"	Shipping Weight lbs.	60.8 lbs.

LIMITED WARRANTY

ARCAN® PROFESSIONAL TOOLS WARRANTS TO ITS CUSTOMERS THAT THE COMPANY'S ARCAN® PROFESSIONAL TOOLS BRANDED PRODUCTS ARE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS.

Arcan® Professional Tools will repair or replace its Arcan® Professional Tools 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, Arcan® Professional Tools 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 Arcan® Professional Tools. The foregoing obligation is Arcan® Professional Tools' 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 Arcan® Professional Tools. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

1-800-879-7316

Monday - Friday 8:30am to 5:30pm EST
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