



**SAVE THIS MANUAL**

**You will need this manual for the safety warnings and precautions, operating, inspection, maintenance and trouble shooting procedures and parts list. Keep your invoice with this manual. Keep this manual and invoice in a safe and dry place for future reference.**

**SPECIFICATIONS:**

Item	Description
Maximum Holding Capacity Per Unit:	1,500 lbs
Width Between Arms / Closed:	11"
Width Between Arms / Open:	22"
Max. Wheel Width Capacity:	12"
Net Weight:	79 Pounds

## Safety Precautions



**WARNING:** To prevent personal injury and/or damage to equipment:

- Read, understand, and follow all instructions and safety precautions.
- Wear eye protection that meets ANSI Z87.1 and OSHA standards.
- Never exceed the rated lifting capacity of the jack.
- Use the jack on a smooth level surface. Do NOT operate the jack on inclines.
- Do NOT use the jack with tires that are wider than 9 inches.
- Do NOT start the vehicle's engine or drive the vehicle with the jack in use. The jack is designed only for manual maneuvering of a vehicle.
- The higher a vehicle is lifted the more unstable it becomes; therefore use the lowest possible lock pin position.

## Air Bleed Instructions

Air may become trapped in the hydraulic system during shipment or storage. Air in the hydraulic system may cause the foot pedal action to feel "spongy" or make the jack be unable to lift a load. To bleed air from the system:

1. Open the release valve by turning the release knob counterclockwise.
2. Pull the rollers apart to the fully open position.
3. Pump the foot pedal at least five full strokes.

## Operating Instructions

1. Hold the foot pedal, and carefully remove the foot pedal hook. (The foot pedal is spring loaded and will fly up when the hook is released.)
2. Remove the lock pin from the frame.
3. Open the release valve by turning the release knob counterclockwise .
4. Expand the jack by pulling the rollers apart. The jack should be wide enough to easily straddle the tire.
5. Position the jack so both rollers contact the tire tread. Verify there is at least 3/4" clearance between the tire and the axle of the jack; so the tire will put pressure on the rollers not the jack frame when raised.
6. Close the release valve by turning the release knob clockwise to a snug-tight position.
7. Operate the foot pedal to lift the tire.
8. When the lift is complete place the lock pin in the hole nearest the extension rod.
9. To lower the jack remove the lock pin and SLOWLY open the release valve counterclockwise.

## Preventive Maintenance

Dirt is the greatest single cause of failure in hydraulic units. Keep the jack clean and well lubricated to prevent foreign matter from entering the system. If the jack has been exposed to rain, snow, sand, or grit, it must be cleaned before being used.

1. Store the jack in a well-protected area where it will not be exposed to corrosive vapors, abrasive dust, or any other harmful elements.
2. Lubricate the sliding area of the square tubing monthly.
3. Replace the oil in the reservoir at least once per year. To check the oil, place the jack on level ground and expand the jack by pulling the rollers apart. Remove the oil plug. The oil level should be at the bottom of the filler plug hole. Add approved anti-wear hydraulic jack oil, and install the oil plug again. **IMPORTANT :** The use of alcohol, hydraulic brake fluid, detergent motor oil, or transmission oil could damage the seals and result in jack failure.
4. Inspect the jack before each use. Take corrective action if any of the following problems are found :
  - A. cracked or damaged housing
  - B. excessive wear, bending, or other damage
  - C. leaking hydraulic fluid
  - D. scored or damaged piston rod
  - E. malfunctioning swivel heads or adjusting screws
  - F. loose hardware
  - G. modified or altered equipment

## Troubleshooting Guide

Repair procedures must be performed in a dirt-free environment by qualified personnel who are familiar with this equipment. **CAUTION: To prevent personal injury, perform inspection, maintenance, and repair procedures when the jack is free of a load (not in use).**

Trouble	Cause	Solution
<b>Jack does not lift</b>	<ol style="list-style-type: none"> <li>1. Release valve is open.</li> <li>2. Low/no oil in reservoir.</li> <li>3. Air-locked system.</li> <li>4. Load is above capacity of jack.</li> <li>5. Delivery valve and/or bypass valve not working correctly.</li> <li>6. Packing worn out or defective.</li> </ol>	<ol style="list-style-type: none"> <li>1. <i>Close release valve.</i></li> <li>2. <i>Fill with oil and bleed system.</i></li> <li>3. <i>Bleed system.</i></li> <li>4. <i>Use correct equipment.</i></li> <li>5. <i>Clean to remove dirt or foreign matter. Replace oil.</i></li> <li>6. <i>Replace hydraulic unit.</i></li> </ol>
<b>Jack lifts only partially</b>	<ol style="list-style-type: none"> <li>1. Too much or not enough oil.</li> </ol>	<ol style="list-style-type: none"> <li>1. <i>Check oil level.</i></li> </ol>
<b>Jack advances slowly</b>	<ol style="list-style-type: none"> <li>1. Pump not working correctly.</li> <li>2. Leaking seals.</li> </ol>	<ol style="list-style-type: none"> <li>1. <i>Replace hydraulic unit.</i></li> <li>2. <i>Replace hydraulic unit.</i></li> </ol>
<b>Jack lifts load, but doesn't hold</b>	<ol style="list-style-type: none"> <li>1. Cylinder packing is leaking.</li> <li>2. Valve not working correctly (suction, delivery, release, or bypass).</li> <li>3. Air-locked system.</li> </ol>	<ol style="list-style-type: none"> <li>1. <i>Replace hydraulic unit.</i></li> <li>2. <i>Inspect valves. Clean and repair seat surfaces.</i></li> <li>3. <i>Bleed system.</i></li> </ol>
<b>Jack leaks oil</b>	<ol style="list-style-type: none"> <li>1. Worn or damaged seals.</li> </ol>	<ol style="list-style-type: none"> <li>1. <i>Replace hydraulic unit.</i></li> </ol>
<b>Jack will not retract</b>	<ol style="list-style-type: none"> <li>1. Release valve is closed.</li> </ol>	<ol style="list-style-type: none"> <li>1. <i>Open or clean release valve.</i></li> </ol>
<b>Jack retracts slowly</b>	<ol style="list-style-type: none"> <li>1. Cylinder damaged internally.</li> <li>2. Link section is binding.</li> </ol>	<ol style="list-style-type: none"> <li>1. <i>Replace hydraulic unit.</i></li> <li>2. <i>Lubricate link section.</i></li> </ol>

REF. NO.	PART NUMBER	DESCRIPTION	QTY	REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	1335116	RIGHT FRAME ASSEMBLY	1	11	1335112	LOCK PIN	1
2	1335111	LEFT FRAME ASSEMBLY	1	12	1335107	SELF TAPPING SCREW	8
3	1335117	PEDAL LOCK HOOK	1	13	1335101	CYLINDER ASSEMBLY	1
4	1335118	RUBBER WASHER	1	14	1335120	CYLINDER CONNECTOR	1
5	1335119	M6 NYLON LOCK NUT	1	15	1335102	HEX HEAD BOLT M16x120	1
6	1335105	ROLLER SUPPORT	4	16	1335103	M16 FLAT WASHER	1
7	1335106	WHEEL ROLLER	2	17	1335104	M16 NYLON LOCK NUT	1
8	1335109	4" SWIVEL CASTER	2	18	1335113	SOCKET HEAD CAP SCREW M6x20	4
9	1335110	4" SWIVEL CASTER WITH LOCK	2	19	1335114	M6 LOCK WASHER	4
10	1335108	M12 NYLON LOCK NUT	4	20	1335115	M6 FLAT WASHER	4

