



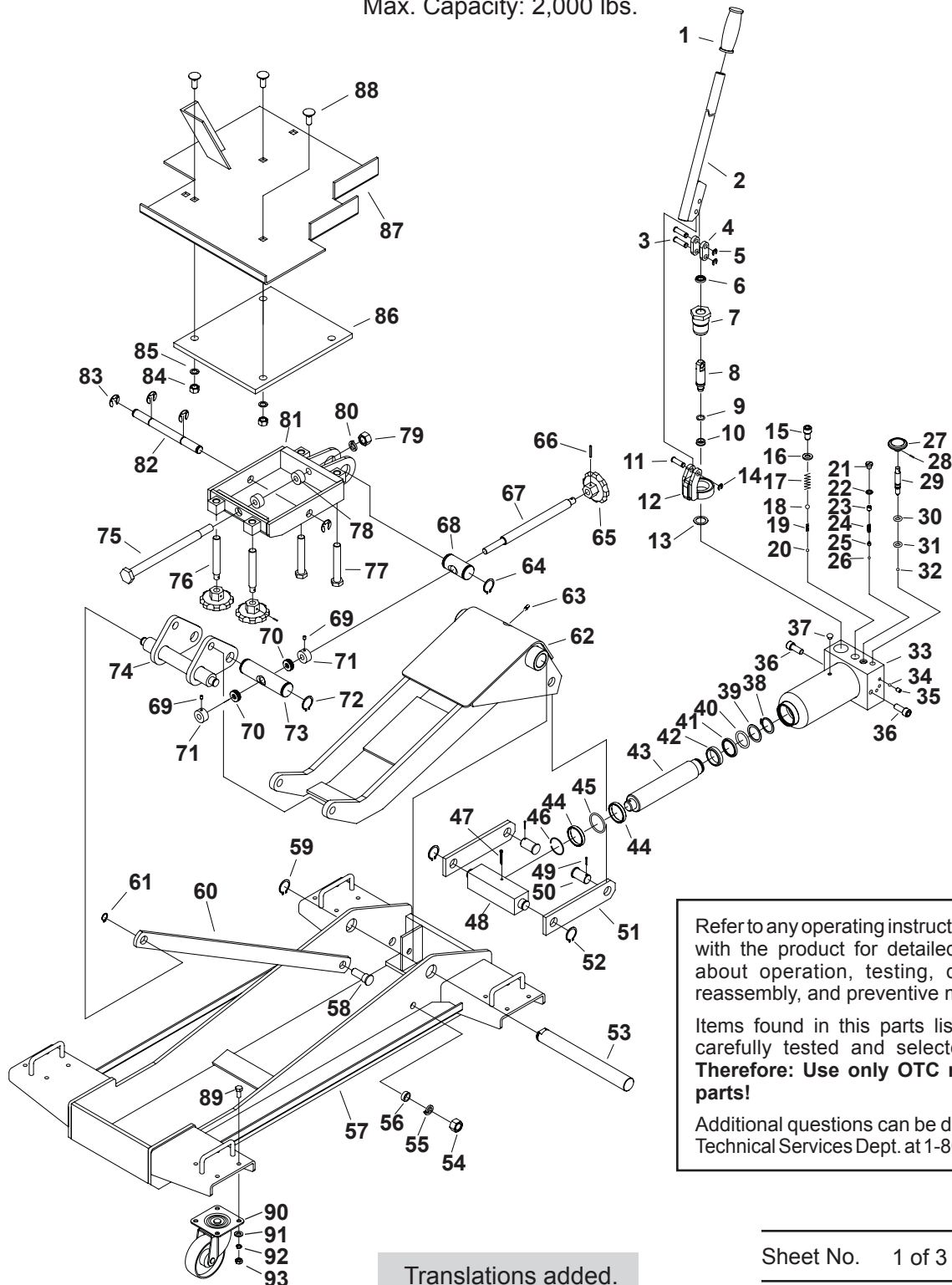
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Form No. 528205

**Parts List &
 Operating Instructions**
 for:
1522A

Low Lift Transmission Jack

Max. Capacity: 2,000 lbs.



Refer to any operating instructions included with the product for detailed information about operation, testing, disassembly, reassembly, and preventive maintenance.

Items found in this parts list have been carefully tested and selected by OTC. **Therefore: Use only OTC replacement parts!**

Additional questions can be directed to our Technical Services Dept. at 1-800-533-6127.

Translations added.

Parts List

Item No.	Qty.	Description	Item No.	Qty.	Description
1	1	Handle Sleeve	48	1	Connecting Block
2	1	Handle	49	2	Pin
3	2	Pin	50	2	Shaft
4	2	Rod Joint	51	2	Rod Link
5	2	Snap Ring	52	2	Snap Ring
6	1	Dustproof	53	1	Shaft
7	1	Pump Cylinder	54	2	Nut
8	1	Pump Plunger	55	2	Lock Washer
9	1	O-ring	56	2	Washer
10	1	Y-seal	57	1	Frame
11	1	Pin	58	2	Shaft
12	1	Pump Seat	59	1	Snap Ring
13	1	Copper Washer	60	2	Connecting Bar
14	1	Snap Ring	61	2	Snap Ring
15	1	Bolt	62	1	Arm
16	1	Copper Washer	63	1	Oil Nipple
17	1	Spring	64	4	Snap Ring
18	1	Steel Ball	65	3	Knob
19	1	Spring	66	3	Pin
20	1	Steel Ball	67	1	Screw
21	1	Bolt	68	1	Shaft
22	1	Sealing Washer	69	2	Screw
23	1	Screw	70	2	Bearing
24	1	Spring	71	2	Bushing
25	1	Ball Seat	72	4	Snap Ring
26	1	Steel Ball	73	1	Shaft
27	1	Release Knob	74	1	Bracket
28	1	Pin	75	1	Bolt
29	1	Oil Release Valve Rod	76	2	Screw
30	1	O-ring	77	2	Bolt
31	1	O-ring	78	2	Bushing
32	1	Steel Ball	79	1	Nut
33	1	Oil Cylinder Assembly	80	1	Lock Washer
34	3	Steel Ball	81	1	Bracket
35	3	Screw	82	1	Shaft
36	2	Bolt	83	4	Snap Ring
37	1	Oil Filler Plug	84	3	Nut
38	1	Snap Ring	85	3	Washer
39	1	O-ring Retainer	86	1	Fixing Board
40	1	O-ring	87	1	Saddle
41	1	Sealing Washer	88	3	Bolt
42	1	Piston Ring	89	16	Bolt
43	1	Piston Rod	90	4	Swivel Caster
44	2	Bushing	91	16	Flat Washer
45	1	O-ring	92	16	Lock Washer
46	1	Snap Ring	93	16	Nut
47	1	Pin			

Replacement Parts Kits

Item
No. Qty. Description

Caster Kit No. 529028

89 4 Bolt
90 1 Swivel Caster
91 4 Flat Washer
92 4 Lock Washer
93 4 Nut

Handle Kit No. 529029

1 1 Handle Sleeve
2 1 Handle
3 2 Pin
4 2 Rod Joint
5 2 Snap Ring

Hardware Kit No. 529034

47 1 Pin
49 2 Pin
52 2 Snap Ring
54 2 Nut
55 2 Lock Washer
56 2 Washer
58 2 Shaft
59 1 Snap Ring
61 2 Snap Ring
63 1 Oil Nipple
64 4 Snap Ring
66 3 Pin
69 2 Screw
70 2 Bearing
71 2 Bushing
72 4 Snap Ring
75 1 Bolt
79 1 Nut
80 1 Lock Washer
83 4 Snap Ring
84 3 Nut
85 3 Washer
88 3 Bolt
89 16 Bolt
91 16 Flat Washer
92 16 Lock Washer
93 16 Nut

Hydraulic Unit Kit No. 529031

Item
No. Qty. Description

6 1 Dustproof
7 1 Pump Cylinder
8 1 Pump Plunger
9 1 O-ring
10 1 Y-seal
11 1 Pin
12 1 Pump Seat
13 1 Copper Washer
14 1 Snap Ring
15 1 Bolt
16 1 Copper Washer
17 1 Spring
18 1 Steel Ball
19 1 Spring
20 1 Steel Ball
21 1 Bolt
22 1 Sealing Washer
23 1 Screw
24 1 Spring
25 1 Ball Seat
26 1 Steel Ball
27 1 Release Knob
28 1 Pin
29 1 Oil Release Valve Rod
30 1 O-ring
31 1 O-ring
32 1 Steel Ball
33 1 Oil Cylinder Assembly
34 3 Steel Ball
35 3 Screw
36 2 Bolt
37 1 Oil Filler Plug
38 1 Snap Ring
39 1 O-ring Retainer
40 1 O-ring
41 1 Sealing Washer
42 1 Piston Ring
43 1 Piston Rod
44 2 Bushing
45 1 O-ring
46 1 Snap Ring

Miscellaneous Parts Kit

Item
No. Qty. Description

No. 529033

47 1 Pin
48 1 Connecting Block
49 2 Pin
50 2 Shaft
51 2 Rod Link
52 2 Snap Ring
53 1 Shaft
54 2 Nut
55 2 Lock Washer
56 2 Washer
58 2 Shaft
59 1 Snap Ring
60 2 Connecting Bar
61 2 Snap Ring








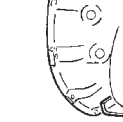

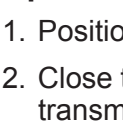
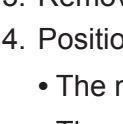
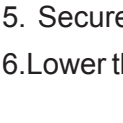

Saddle Kit No. 529030

74 1 Bracket
81 1 Bracket
84 3 Nut
85 3 Washer
86 1 Fixing Board
87 1 Saddle
88 3 Bolt

Tilt Screws Kit No. 529032

64 4 Snap Ring
65 3 Knob
66 3 Pin
67 1 Screw
68 1 Shaft
69 2 Screw
70 2 Bearing
71 2 Bushing
72 4 Snap Ring
73 1 Shaft
75 1 Bolt
76 2 Screw
77 2 Bolt
78 2 Bushing
79 1 Nut
80 1 Lock Washer
82 1 Shaft
83 4 Snap Ring

Safety Precautions

-  To avoid possible personal injury, damage to equipment, or property:
-  • Study, understand, and follow all instructions, including the ANSI B30.1 safety code for jacks.
 -  • Wear eye protection that meets ANSI Z87.1 and OSHA standards.
 -  • Inspect the jack before each use; do not use the jack if it is damaged, altered, or in poor condition.
 -  • No alterations shall be made to this product.
 -  • Only attachments and/or adapters supplied by the manufacturer shall be used.
 -  • Use the jack only on hard, level surfaces.
 -  • Adequately support the vehicle before starting repairs.
 -  • Use of this product is limited to the removal, installation, and transportation in the lowered position of transmissions, transfer cases, and transaxles.
 -  • The load must never exceed the rated jack capacity.
 -  • Stay out from underneath the load at all times.
 -  • Secure the load to the jack.
 -  • Lower the load completely before moving the jack.
 - • **SLOWLY AND CAREFULLY** move the jack around corners, because the load could tip.
 - • Use only approved hydraulic fluid (Chevron AW Hydraulic Oil MV or equivalent). The use of alcohol or hydraulic brake fluid could damage seals and result in jack failure.

Operating Instructions

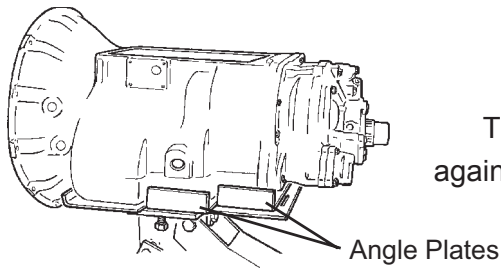
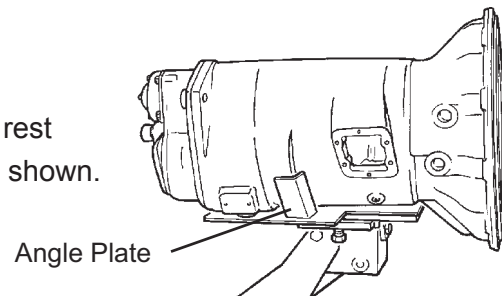


Figure 1
The transmission must rest against the angle plates as shown.



Operating Instructions

1. Position the jack under the transmission.
2. Close the control valve. Operate the pump handle to raise the boom and align the mounting plate with the transmission. See Figure 1.
3. Remove the transmission according to the instructions in the vehicle service manual.
4. Position the transmission on the mounting plate, resting against the angle plates as shown in Figure 1.
 - The mounting plate may be tilted forward and backward by turning the tilt knob.
 - The mounting plate may be tilted side-to-side by adjusting the two vertical hex hd. cap screws.
5. Secure the transmission to the mounting plate.
6. Lower the load by slowly opening the control valve. The control valve regulates how fast the boom is lowered.

Preventive Maintenance

IMPORTANT: 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 it is 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. Regularly lubricate the moving parts.
3. To check the oil level, place the jack on level ground and lower the lift arm completely. Remove the filler plug. The oil level should be within 3/8" of the filler plug hole. Do not overfill. If necessary, add approved anti-wear hydraulic jack oil, and install the filler plug again. **IMPORTANT: The use of alcohol, hydraulic brake fluid or detergent motor 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	e. Malfunctioning swivel heads or adjusting screws
b. Excessive wear, bending, or other damage	f. Loose hardware
c. Leaking hydraulic fluid	g. Modified or altered equipment
d. Scored or damaged piston rod	

Troubleshooting Guide

Repair procedures must be performed in a dirt-free environment by qualified personnel who are familiar with this equipment.

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

