

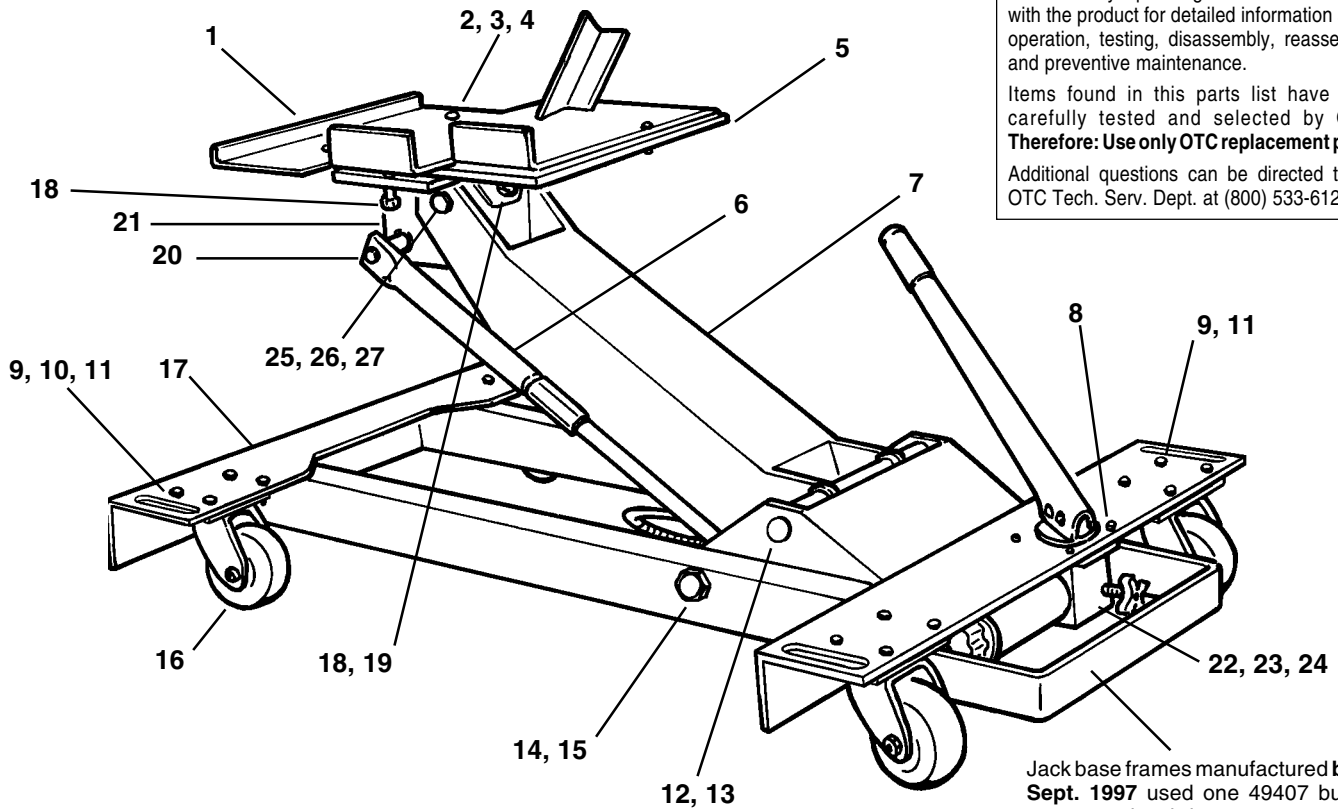
**Parts List & Operating Instructions**

for:

5019

**Low Lift Transmission Jack**

Maximum Capacity: 2,200 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!**

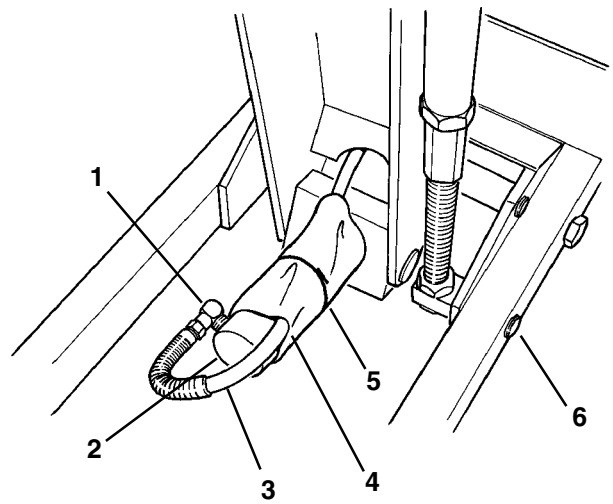
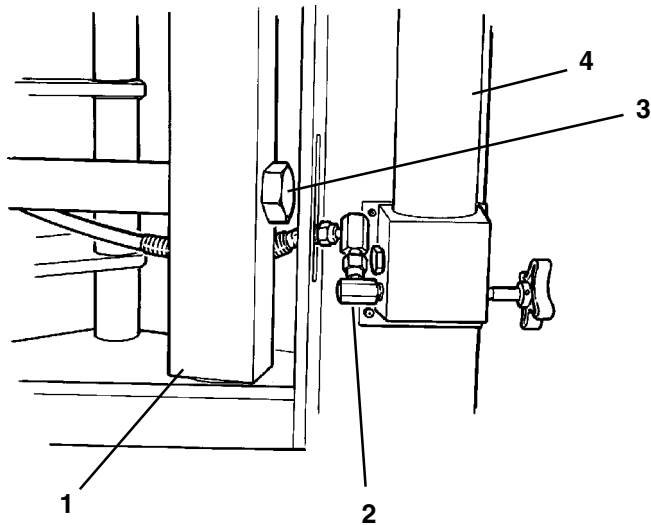
Additional questions can be directed to the OTC Tech. Serv. Dept. at (800) 533-6127.

Jack base frames manufactured **before Sept. 1997** used one 49407 bumper, two 10049 hex hd. cap screws, and two 10204 hex nuts.

Item No.	Part No.	No. Req'd	Description	Item No.	Part No.	No. Req'd	Description
1	220492	1	Trans. Mounting Plate <i>(for Rockwell &amp; Eaton® RoadRange® transmissions; includes Items 1-4)</i>	18	10120	4	Hex Hd. Cap Screw
2	10208	3	Hex Nut	19	220877	2	Lock Nut
3	12004	3	Washer	20	14855	1	Retaining Ring
4	220408	3	Bolt (1/2" x 1.25 Lg.)	21	49400	1	Mounting Bracket
5	49398	1	Mounting Plate	22	312616	1	Swivel Hand Pump <i>(See Form No. 101379)</i>
6	49404	1	Special Screw	23	251488	5	Cap Screw
7	53934	1	Lift Weldment	24	350910	1	Retainer
8	10012	4	Socket Hd. Screw	25	10101	2	Hex Hd. Cap Screw
9	RS-3500-15	16	Hex Nut (5/16-18)	26	15316	2	Lock Nut, Hex
11	10559	16	Hex Hd. Cap Screw	27	223316	2	Flange Sleeve Bearing
12	11998	2	Retaining Ring	<b>Parts Included but Not Shown</b>			
13	312503	1	Pin	218083	2	Warning Decal	
14	19777	2	Hex Hd. Cap Screw	309956	1	Made in USA Decal	
15	11253	2	Washer	312555	1	Decal	
16	16002	4	Caster	312556	1	Warning Decal	
17	53937	1	Jack Base Frame				

Shaded areas reflect the last revisions made to this form.

Sheet No. 1 of 2  
 Issue Date: Rev. D, 5-26-04



Item No.	Part No.	No. Req'd	Description
1	53935	1	Ram Mounting Plate
2	14438	2	Fitting
3	220366	1	Hex Screw (1-8 x 3.25 Lg.)
4	312616	1	Swivel Hand Pump

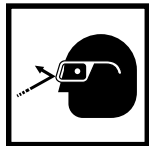
Item No.	Part No.	No. Req'd	Description
1	15517	1	90° Elbow
2	220405	1	Ram
3	312554	1	Hydraulic Hose
4	222396	1	Protective Sleeve
5	13344	1	Cable Tie
6	11998	1	Retaining Ring

### Safety Precautions

**WARNING:** Failure to follow these warnings could cause a loss of load, damage to equipment, and / or failure of equipment, which may result in personal injury or property damage:



- If the operator cannot read English, operating instructions and safety precautions must be read and discussed in the operator's native language.



- Wear eye protection that meets the requirements of ANSI Z87.1 and OSHA standards.

- Before each use, inspect the jack for leaks and damaged, loose, or missing parts. Immediately replace cut, frayed, or damaged hoses.

- Do not modify this transmission jack or use attachments unless supplied by OTC. If a modification is needed, please contact OTC Technical Services.

- This jack is designed to remove or install only automotive or truck transmissions. Using the jack in a manner for which it is not designed may result in injury or damage to equipment.



- The load must not exceed the maximum rated capacity of 2,200 lbs.

- Stay out from underneath the load at all times.

- Secure the load to the jack.

- Use the jack on hard, level surfaces only.

- Lower the load completely before moving the jack.

### Assembly Instructions

1. Assemble the handle to the pump by aligning the holes in the handle with the holes in the pump cap and piston. Slide a pin through each hole, and secure each pin with a retaining ring on each end. See Figure 1.

2. For use with a Rockwell or Eaton® RoadRanger® truck transmission: Place the transmission mounting plate (220492) on top of the white mounting plate (49398) as shown in the parts list drawing. Insert bolts (220408) through the three holes in the plates. Secure the bolts by attaching a washer (12004) and nut (10208) to each bolt from underneath the plates.

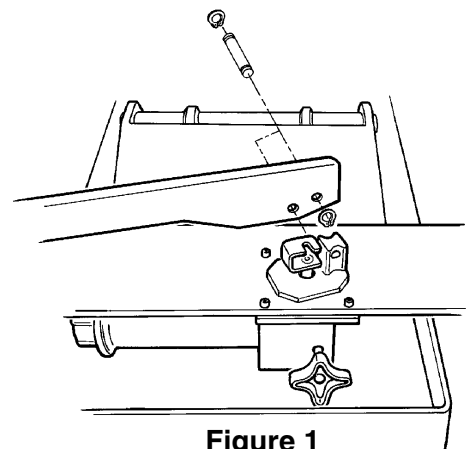
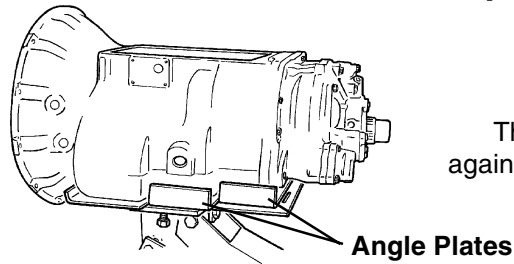


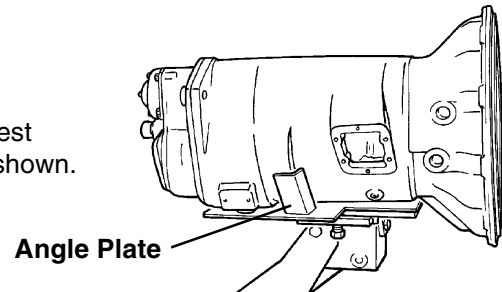
Figure 1

## Operating Instructions



**Figure 2**

The transmission must rest against the angle plates as shown.

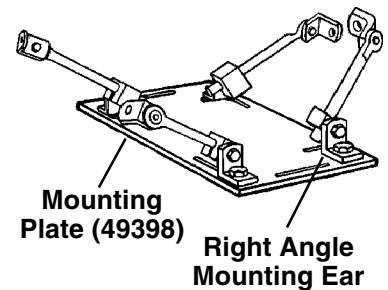


1. Position the jack under the transmission.
2. Close the control valve. Operate the pump handle to raise the boom and align the mounting plate with the transmission. See Figure 2.
3. Remove the transmission according to the instructions in the vehicle service manual.
4. Position the transmission on the mounting plate, resting against the angle plates as shown in Figure 2.
  - The transmission mounting plate may be tilted forward and backward by adjusting the linkage arm (49404).
  - The transmission mounting plate may be tilted side-to-side by adjusting the hex hd. cap screws (10120).
5. Secure the transmission to the mounting plate.
6. Lower the load by slowly opening the control valve. Use the control valve to regulate how fast the boom is lowered.

### Optional Equipment - OTC AdjustaGrip® Universal Mounting Arm (305811)

OTC's universal mounting arms may be used to mount other large transmissions to the low lift transmission jack. (Order part no. 305811 for one universal mounting arm; order each arm separately.)

1. Remove the transmission mounting plate (220492), bolts (220408), washers (12004), and hex nuts (10208).
2. Fasten the universal mounting arms to the top of the mounting plate (49398) using the washers and nuts provided. See Figure 3.
  - a. Loosen all the joints in the adjust-a-grip arms.
  - b. Locate the right angle mounting ear of each arm over a slot in the mounting plate, and install a washer and nut.
  - c. Use cap screws to attach at least two of the arms to the transmission.



**Figure 3**

## Maintenance

1. Completely lower the jack any time it is not being used.
2. The hydraulic pump and ram assembly should be drained, flushed, and refilled with oil at least once each year. Use a high grade hydraulic oil such as OTC #9036 or an equivalent (215 SUS viscosity rating at 100° F).
3. Lubricate caster swivel plates and wheels every six months using pressure gun grease.
4. Lubricate lift arm pivot points as needed with SAE 30 motor oil.

