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Form No. 106329

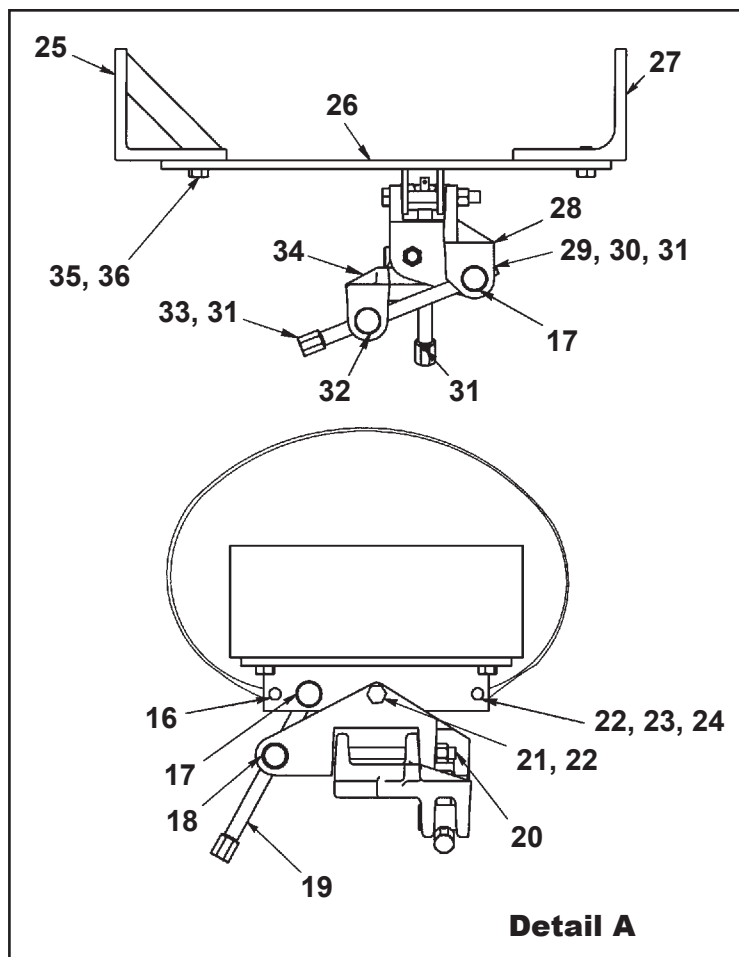
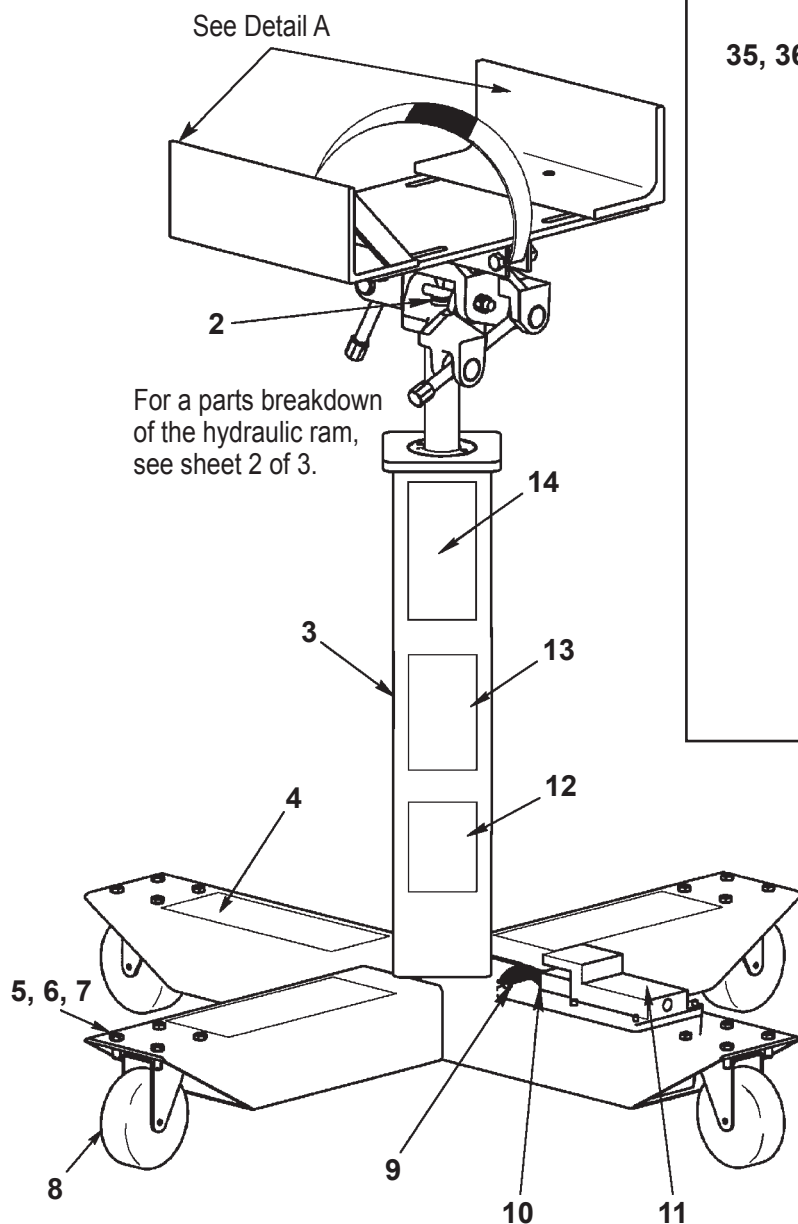
**Parts List &
Operating Instructions
for:**

5078

High Lift Transmission Jack

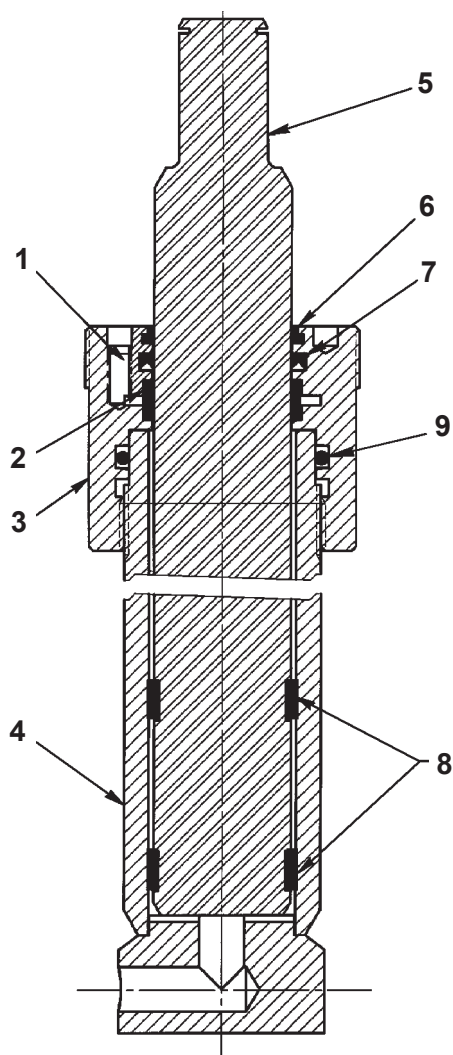
Max. Capacity: 2,000 lbs. at 100-140 psi air

Application: Installation and removal of truck and automobile transmissions



IMPORTANT: Remove the shipping oil plug on top of the air hydraulic foot pump reservoir, and replace it with the vented oil plug provided. The jack will not function correctly if the shipping plug is left in.

Item No.	Part No.	No. Req'd	Description
1	12365	4	External Retaining Ring
2	11903	1	Retaining Ring
3	54626	1	Main Base Assembly
4	19802	3	Abrasive Roll
5	10559	16	Hex Hd. Cap Screw
6	10257	16	Washer (<i>for 5/16" bolt</i>)
7	10201	16	Hex Nut (<i>5/16-18</i>)
8	16002	4	Caster
9	314726	1	Hydraulic Hose (<i>30 in.</i>)
10	11628	1	Straight Fitting
11	66226	1	Air Hydraulic Foot Pump
12	46963	1	Decal
13	314743	1	Warning Decal
14	223514	1	Decal
16	15997	1	Cotterless Hitch Pin
17	222237	2	Pivot Shaft
18	222238	1	Pivot Shaft
19	314152	2	Threaded Rod
20	222239	1	Hex Hd. Cap Screw
21	10093	1	Hex Hd. Cap Screw
22	15013	3	Hex Locknut (<i>1/2-13</i>)
23	314748	1	Strap
24	10089	1	Hex Hd. Cap Screw
25	314733	1	Front Support Bracket
26	314734	1	Mounting Plate
27	314730	1	Back Support Bracket
28	440400	1	Pivot Linkage Assembly
29	222235	2	Slotted Hex Nut
30	214021	4	Thrust Bearing Washer
31	10895	4	Roll Pin
32	222236	1	Pivot Shaft
33	314735	2	Handle
34	314154	1	Pivot
35	12004	3	Washer (<i>for 1/2" bolt</i>)
36	10079	3	Hex Hd. Cap Screw



Cylinder Assembly

Item No.	Part No.	No. Req'd	Description
1	*15130	1	Plug
2	*223492	1	Wear Ring (2" O.D.)
3	63340	1	Packing Gland
4	314728	1	Displacement Cylinder
5	440685	1	Cylinder Rod
6	*19591	1	Rod Wiper
7	*223490	1	U-cup Seal
8	*223491	2	Wear Ring (1.875" O.D.)
9	*14848	1	O-ring

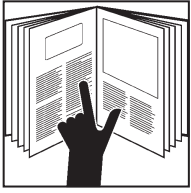
Items marked with an asterisk (*) are included in Seal Repair Kit No. 300717.

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!**

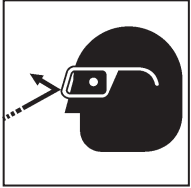
Additional questions can be directed to our Technical Services Dept. at 1-800-533-6127.

Safety Precautions



Caution: To prevent personal injury and damage to equipment,

- Read, understand, and follow all safety precautions and operating instructions.
- Wear eye protection that meets the requirements of ANSI Z87.1 and OSHA.
- A load must never exceed the rated lifting capacity of the jack.
- Do not lift or support the vehicle with this jack. Place support stands under the vehicle before starting repairs.
- Use the jack on a hard, level surface.
- Center the load on the jack saddle. Off-center loads can damage the seals in the ram and cause jack failure.
- Never move the jack with a load any higher off the ground than necessary. Slowly and carefully move the jack around corners because the load could tip. Stay clear of a lifted load.
- Lower the jack slowly and carefully while watching the position of the load.
- Do not modify the jack or use adapters unless approved or supplied by OTC.
- Use only anti-wear hydraulic jack oil with a 215 SUS viscosity rating at 100° F. The use of alcohol, hydraulic brake fluid, or transmission oil could damage seals and result in jack failure.



This guide cannot cover every situation, so always do the job with safety first.

Setup Instructions

(Item numbers refer to the parts list.)

1. Remove transmission jack from the pallet. Attach casters (Item No. 8) using hardware (5, 6, & 7) provided.
2. The transmission support brackets (25 & 27) fit Allison 500 and 600 Series transmissions.
 - A. Use fasteners (35 & 36) to loosely assemble the brackets to the mounting plate. See Detail A.
 - B. Adjust the brackets to fit the transmission pan so the load is centered on the jack.
 - C. Tighten the fasteners assembled in Step A above.
3. **Remove the shipping plug from the air hydraulic foot pump.** Replace the shipping plug with the vented plug provided.
4. The reservoir tube is shipped filled with hydraulic oil. Before using the jack for the first time, press the release pedal to open the release valve, and operate the foot pump eight full strokes to distribute the oil.

Operating Instructions

1. Refer to vehicle's service manual and use the recommended service procedure for removal of the component.
2. Position the jack under the vehicle.
3. Raise the jack by operating the foot pump until the saddle touches the component.
4. Adjust the support brackets to fit the component.
5. Use the tilt crank to align the saddle with the component.
6. Finish raising the jack to the component. Secure the strap assembly around the component.

Maintenance

1. Use only anti-wear hydraulic jack oil. The use of alcohol, hydraulic brake fluid, or transmission oil could damage the seals in the cylinder and result in jack failure.
2. Check the oil level periodically: lower the jack to its lowest position; remove the filler plug; add hydraulic oil (215 SUS viscosity at 100° F) until the oil level is within 1/2" of the filler hole; install the filler plug.
3. Lubricate the foot pump pivot points as needed with SAE 30 motor oil to prevent premature wear.

CAUTION: The greatest single cause of failure in hydraulic units is dirt. Keep the jack clean and well lubricated to prevent foreign matter from entering the hydraulic system.

Bleeding Air from the Jack

1. Retract the jack to its lowest position, and loosen the vented oil plug threaded into the top plate of the foot pump reservoir.
2. Remove the plug (No. 15130, Item No. 1 in the cylinder assembly parts list) from the top of the packing gland (No. 63340, Item No. 3).
3. Operate the foot pump until the main cylinder is full of oil.
4. Install the plug removed in Step 2.
5. Retract the jack to its lowest position.
6. Fill the foot pump reservoir with hydraulic jack oil (215 SUS viscosity rating at 100° F) to the correct fluid level (1/2" from the top).
7. Install the vented oil plug on the foot pump, and inspect for leaks.

Troubleshooting Guide

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

Trouble	Cause	Solution
Unit fails to extend or extends partially	1. Low fluid level	1. Fill to correct fluid level.
Incomplete or spongy cylinder response when foot pedal is pumped	1. Low fluid level 2. Air in system	1. Fill to correct fluid level. 2. Follow instructions to bleed air from system.
Abnormal leakage through unit breather	1. Low fluid level	1. Fill to correct fluid level.
Unit fails to extend when foot pedal is pumped	1. Release valve malfunction 2. Contamination 3. Cylinder packing failure	1. Pump foot pedal with release valve open. 2. Disassemble and clean unit. 3. Install repair kit.
Cylinder creeps	1. Load exceeds maximum lifting capacity 2. Release valve is leaking	1. Reduce load. 2. Flush release valve by pumping foot pedal with release valve open.
Cylinder doesn't retract when release pedal is activated	1. Cylinder is binding	1. Disassemble unit; replace defective parts.
Cylinder doesn't extend	1. Contamination 2. Bad packing	1. Disassemble and clean unit. 2. Install repair kit.
Cylinder extends when foot pedal is pressed, and retracts as foot pedal retracts	1. Release valve malfunction 2. Contamination	1. Flush release valve by pumping foot pedal with release valve open. 2. Disassemble and clean unit.