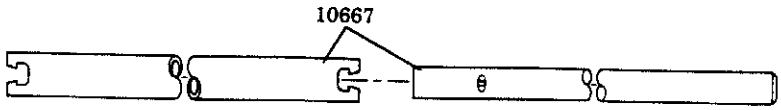
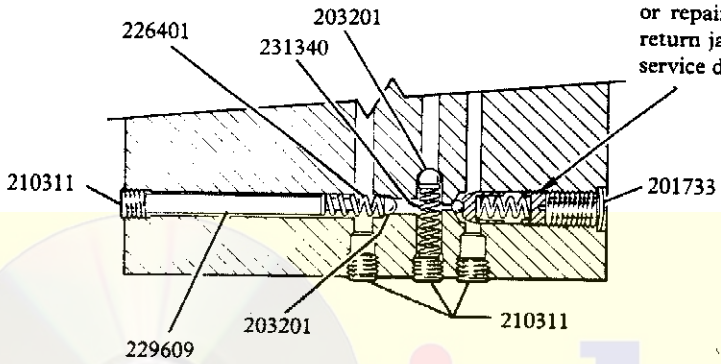
PORTABLE HYDRAULIC JACK

30 TON CAPACITY

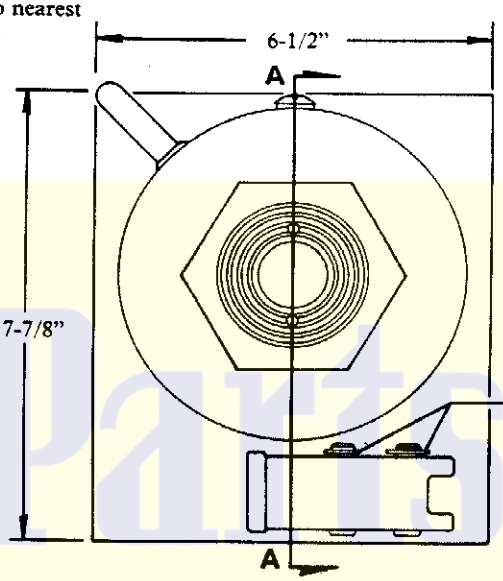
Models 91-601 93601 Series "L"



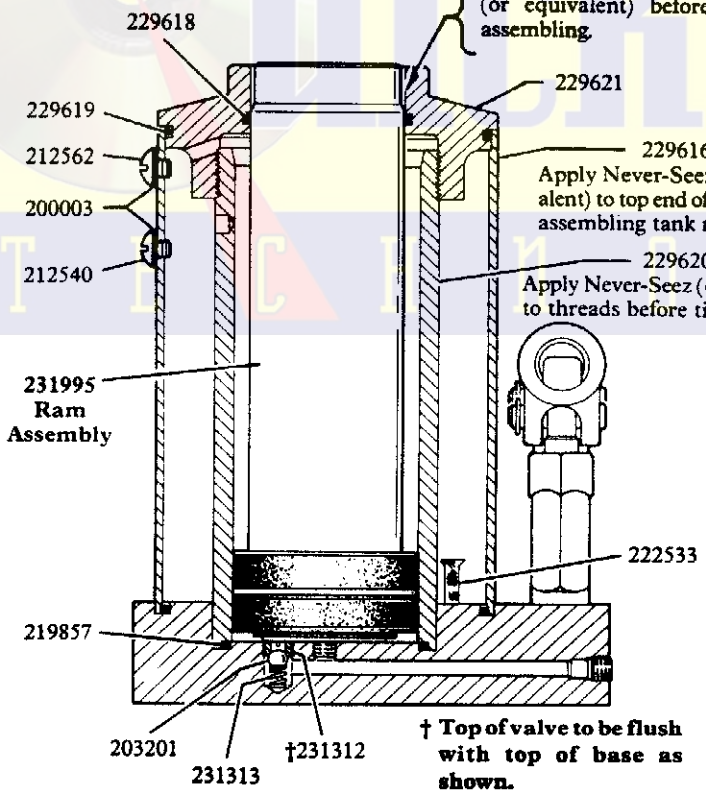
SECTION B-B



Safety valve is factory pre-set. If adjustment or repair is required, return jack to nearest service depot.



SECTION A-A



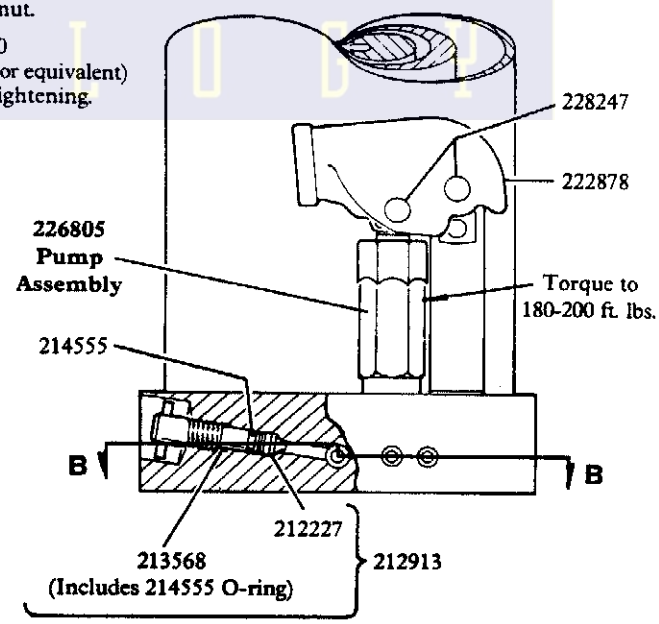
Lubricate I.D. of tank nut with Lubriplate (or equivalent) before assembling.

Apply Never-Seez (or equivalent) to top end of tank before assembling tank nut.

Apply Never-Seez (or equivalent) to threads before tightening.

† Top of valve to be flush with top of base as shown.

Stake top of valve to prevent rotation.



L-NOV-85
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FORM 10358D

MODEL	LABEL KIT NO.	REPAIR KIT NO.
91-601 93601	240154 240155	91-377 240542

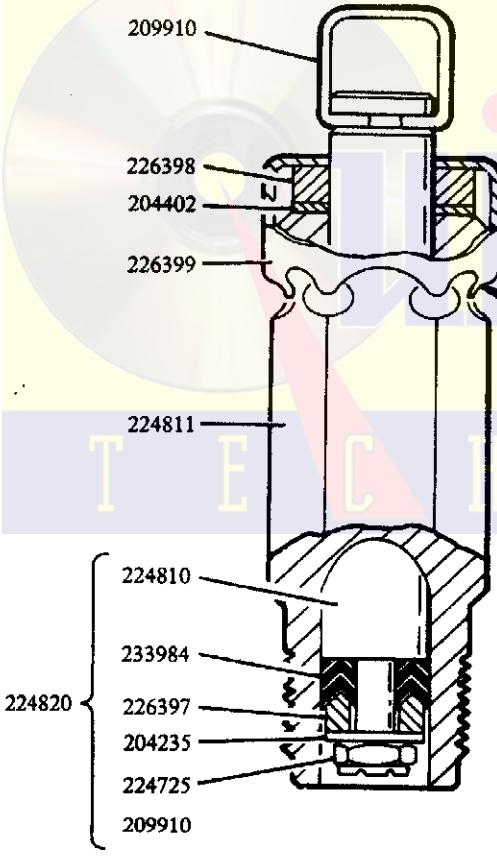
BLY

226805 PUMP ASSEMBLY

) Chamfer on top as shown.

) Nut to be flush with end of tube.

) Stake nut two places to prevent rotation.



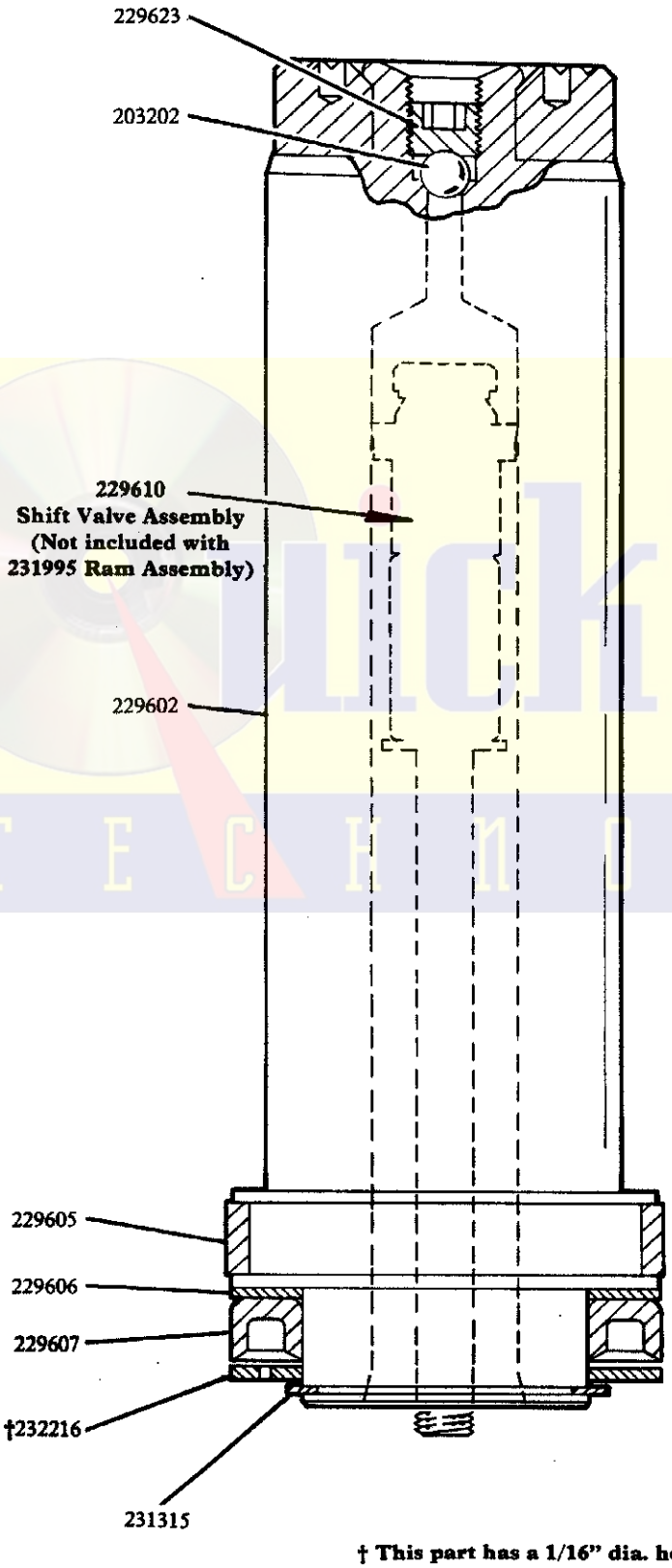
SERVICE PARTS

PART	QUAN.	DESCRIPTION
10667	1	Handle assembly
200003	2	Gasket
201733	1	Expansion plug
*203201	3	Ball
*203202	1	Ball
204235	1	Washer
204402	1	Washer
209910	1	Pump clip
*210311	4	Pipe plug
212227	1	Valve
212540	1	Filler screw
212562	1	Vent screw
212913	1	Release stem & valve assembly
213568	1	Release stem & o-ring assembly
*214555	1	O-ring
*219857	1	O-ring
220018	2	Retaining ring
*222533	1	Screen
222878	1	Handle socket
224725	1	Lock nut
224810	1	Piston
224811	1	Cylinder
224820	1	Pump piston assembly
*226397	1	Washer (rubber)
*226398	1	Washer (felt)
226399	1	Cap
226401	1	Spring
226805	1	Pump assembly
228247	2	Pin
229602	1	Ram & cap assembly
*229605	1	Wear ring
*229606	1	Back-up washer
*229607	1	U-cup packing
229609	1	Spacer
229610	1	Shift valve assembly
229611	1	Center tube & washer
*229613	1	U-cup packing
229614	1	Shift valve
229615	1	Spring
229616	1	Oil tank assembly
*229618	1	Quad ring
*229619	2	O-ring
229620	1	Cylinder
229621	1	Tank nut
229623	1	Set screw
231312	1	Dump valve
231313	1	Spring
231315	1	Retaining ring
231340	1	Spring
231596	1	Nut
231995	1	Ram assembly
*231999	1	Seal
*232216	1	Retainer
*233984	3	V-packing

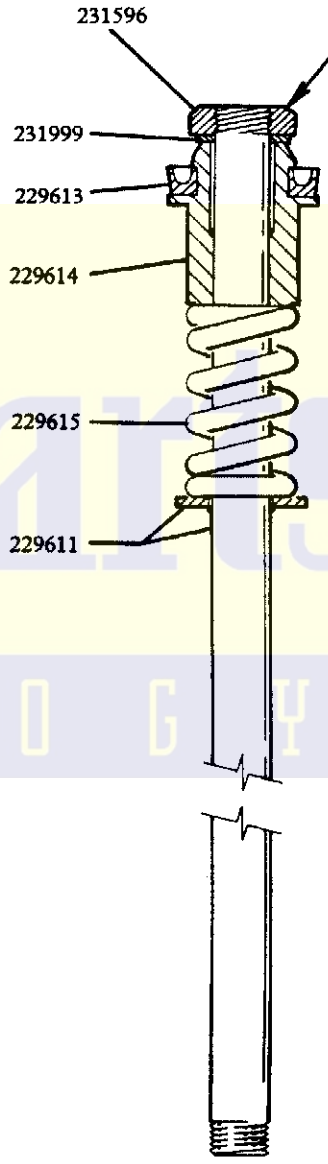
*Included in 91-377 & 240542 Repair Kits.

QuickParts TECHNOLOGY

231995
RAM ASSEMBLY



229610
SHIFT VALVE ASSEMBLY



1) Chamfer shown.
2) Nut to be end of tu
3) Stake nu to preven

† This part has a 1/16" dia. hole.

QuickParts TECHNOLOGY

SPECIFICATIONS

Height (Closed)	Power Raise	Maximum Height	Lift Cap Diameter
11"	7"	18"	2-3/8"

TROUBLESHOOTING

PROBLEM	SOLUTION
1) Will not lift load. 2) Will not lift full height. 3) Pump feels "Spongy" under load.	Jack could be low on oil - with jack in upright position and ram fully lowered, remove filler screw (the lower screw on the reservoir) and fill reservoir with clean HYDRAULIC JACK OIL - correct oil level is reached when oil level is at bottom edge of filler screw hole. Jack could be "air bound" - open the release valve one full turn and pump the handle vigorously. Close the release valve and pump to raise ram about 3". Loosen set screw in top of ram. Pump slowly until air stops bubbling around the set screw threads. Tighten set screw. Use adjustable spanner wrench in holes provided in top of ram to prevent rotation of ram.
1) Will not lift load. 2) Handle raises under load. 3) Handle lowers under load. 4) Will not hold load.	Valves might not be closing - open the release valve one full turn and pump the handle vigorously to flush the valves. Close the release valve and operate normally.
1) Will not work in horizontal position.	Jack in wrong position for horizontal operation - jack must be laying on its right side with the handle socket and release valve nearest ground. Jack could be low on oil - with jack in upright position and ram fully lowered, remove filler screw (the lower screw on the reservoir) and fill reservoir with clean HYDRAULIC JACK OIL - correct oil level is reached when oil level is at bottom edge of filler screw hole.
1) Leaks around release.	Release valve seal may be damaged or worn out - thoroughly clean area around release valve and place jack in horizontal position with release valve facing upward BEFORE removing it. Remove the release stem and o-ring assembly. Remove the o-ring seal and thoroughly clean the stem. Install new seal on release stem. Remove the valve tip and any dirt or foreign matter from release valve hole in jack base with clean lint-free rag. Liberally apply clean grease to seal on release stem. Re-install release valve parts and operate normally.
1) Will not lift full height. 2) Will not lower completely.	Air vent screw could be closed - make certain that vent is open about two full turns.

If the above procedures do not correct the problem, contact your nearest service depot. When submitting any jack or equipment to be repaired, be sure to state the nature of the problem and indicate whether an estimate of the repair cost is needed.

IMPORTANT: As with any hydraulic unit, this unit may occasionally become "air bound" due to being tipped over during shipment. Refer to instructions above to purge air from the jack.

RETAIN THIS INFORMATION FOR FUTURE REFERENCE

When ordering replacement parts, list: Part Number, Description, Model Number, and Series Letter.

LINCOLN provides a Distributor Network that stocks equipment and replacement parts.
A list of Authorized Service Departments will be furnished upon request.

Quik Parts TECHNOLOGY