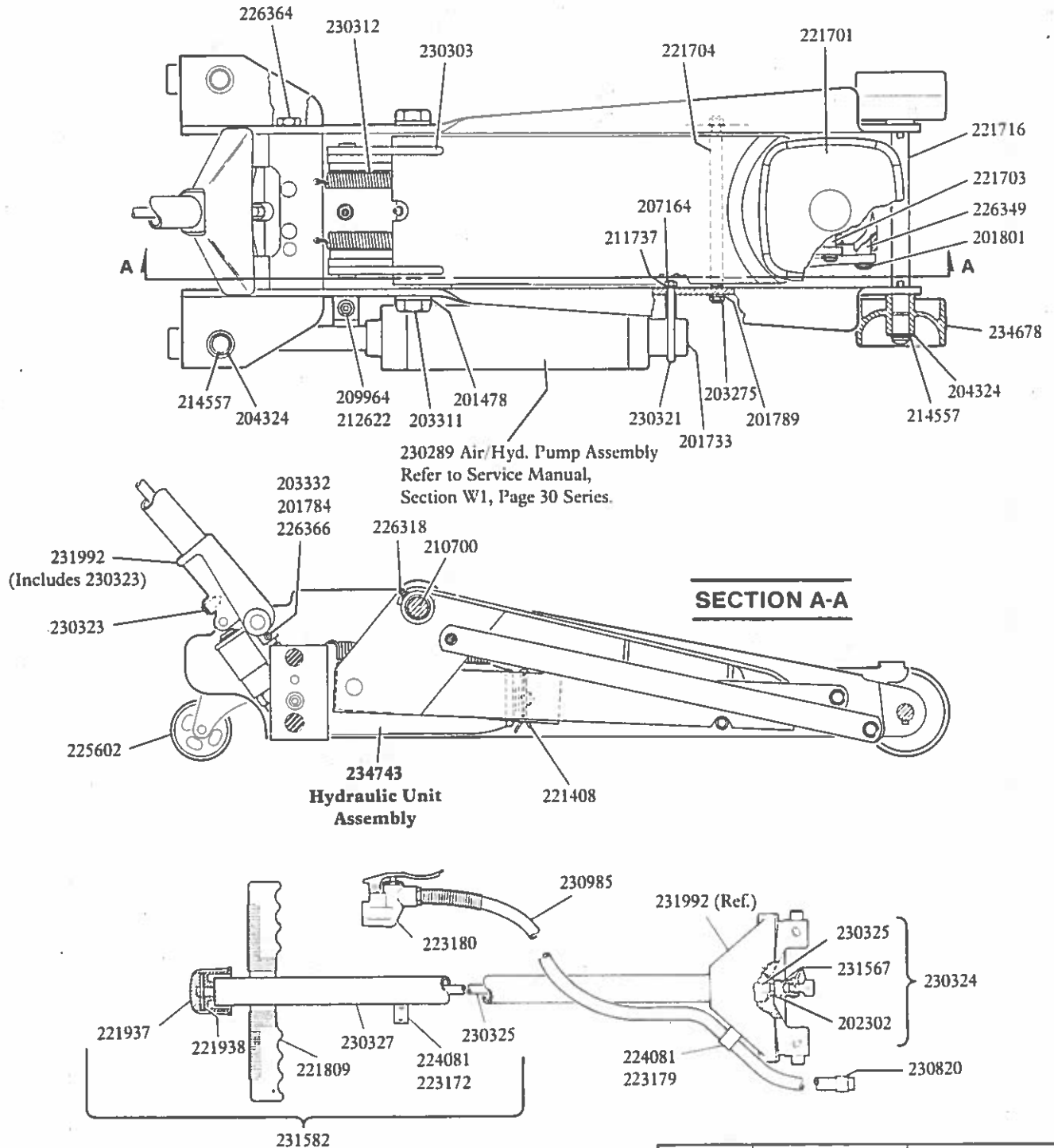


# AIR/MANUAL SERVICE JACK

2 TON CAPACITY

Models 91-666  
93666, YA-666  
Series "D"



MODEL	LABEL KIT NO.	REPAIR KIT NO.
91-666	240181	240561
93666	240182	240561
YA-666	240183	240561

**LINCOLN**  **McNEIL**  
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SECTION - **W1**  
PAGE - **6E**

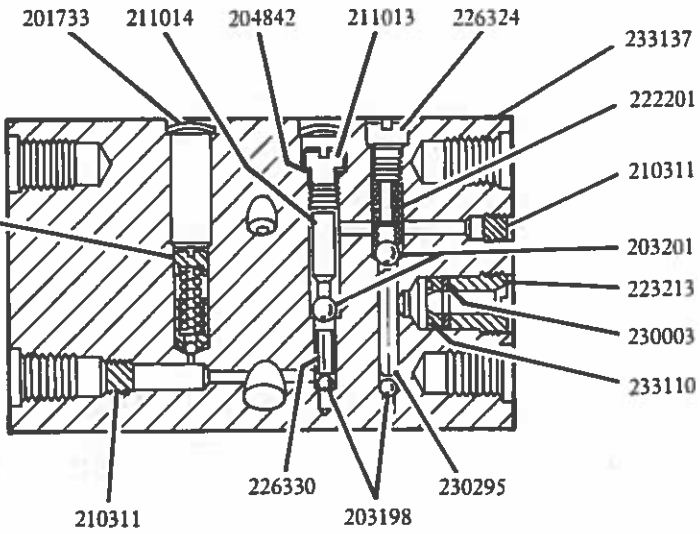
## SERVICE PARTS

PART	QUAN.	DESCRIPTION	PART	QUAN.	DESCRIPTION
200003	1	Gasket	226318	1	Grease fitting
201142	1	Cross pin	226324	1	Pressure plug
201478	2	Lockwasher	226330	1	Spacer
201733	3	Expansion plug	226339	1	Cylinder
201784	1	Lockwasher	226348	1	Spring
201789	2	Lockwasher	226349	1	Pin
201801	4	Retaining ring	226350	1	Piston
201803	1	Retaining ring	*226351	1	Adapter
*201828	3	V-packing	226356	1	Pump sleeve (top)
202302	1	Rivet	226357	1	Pump sleeve (bottom)
*203198	2	Ball (suction)	226364	4	Shoulder bolt
203201	2	Ball (discharge)	226365	1	Pump sleeve cover
203275	2	Nut	226366	1	Bolt
203311	2	Nut	227045	1	Pump assembly
203332	1	Nut	*228256	1	U-cup packing
204233	1	Washer	*230003	1	Washer
204324	4	Washer	230289	1	Air/Hydr. pump ass'y.
*204842	1	Gasket	230295	1	Spacer
207164	2	Nut	230300	1	Washer
209964	1	Lockwasher	230301	1	Heel plate
210311	2	Pipe plug	230303	1	Bell crank
210700	1	Fulcrum pin	230312	2	Spring
211013	1	Plug	230321	1	Hanger
211014	1	Spacer	230323	1	Set screw
211737	2	Washer	230324	1	Rod & universal ass'y.
212622	1	Bolt	230325	1	Rod
214557	4	Retaining ring	230327	1	Handle assembly
216143	1	O-ring	230820	1	Air hose clamp
218043	1	Release valve	230823	1	Cylinder
221318	2	Screen	230985	1	Air hose assembly
221408	1	Cotter pin	231316	1	Plug & gasket ass'y.
221701	1	Cap housing assembly	231567	1	Universal assembly
221703	1	Pin	231582	1	Handle assembly
221704	1	Spacer pin	231638	1	Filler plug & vent ass'y.
221716	1	Axle	231675	1	Oil tank
*221748	1	Quad ring	231992	1	Handle socket ass'y.
221809	2	Handle grip	*233110	1	U-cup packing
221937	1	Release knob	233137	1	Unit block
221938	1	Roll pin	233376	1	Release stem ass'y.
*222201	1	Spring	233917	1	Spring
223172	1	Hose clip	233920	1	Release stem
223179	1	Hose clamp	234662	1	Ring
223180	1	Air valve	234665	1	Tank nut
223213	1	Gland nut	234678	2	Front wheel
224081	2	Screw	234743	1	Hydraulic unit ass'y.
224725	1	Nut	234745	1	Ram assembly
225602	2	Caster	234746	1	Ram

\*Included in 240561 Repair Kit.

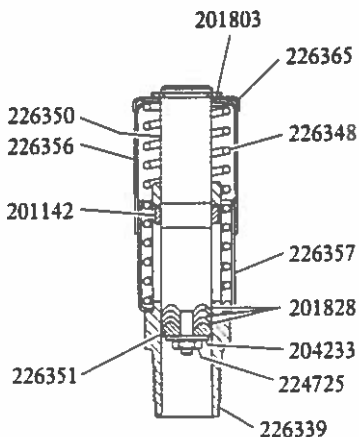
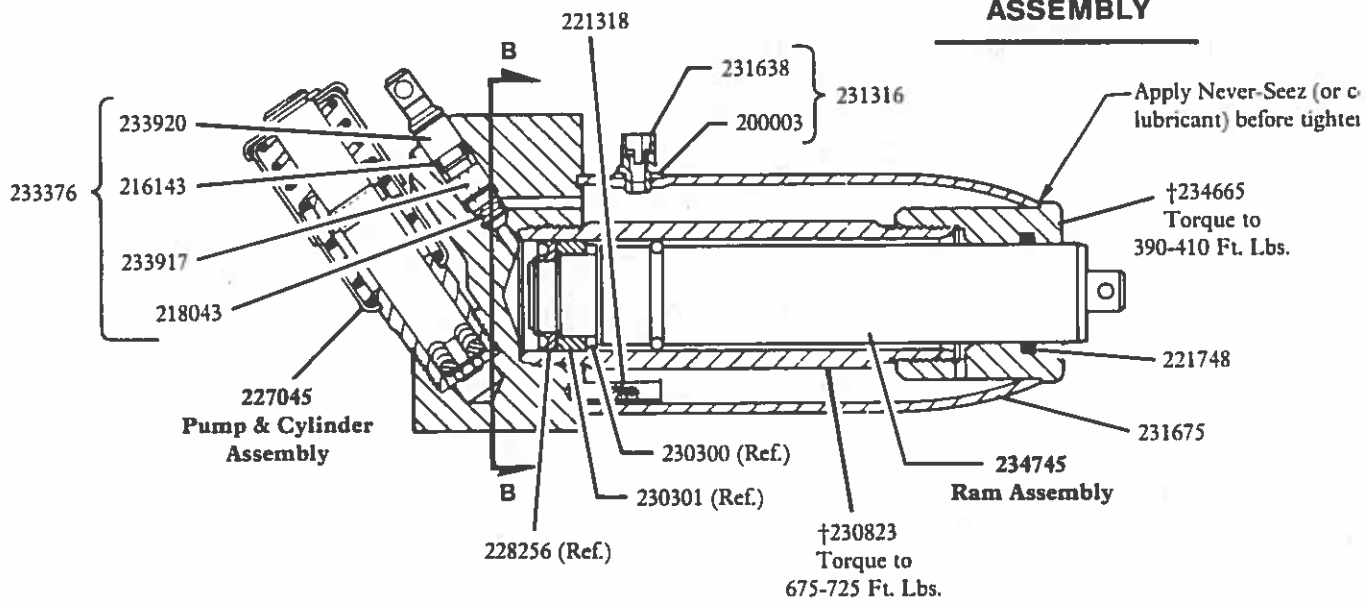
parable  
g.

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

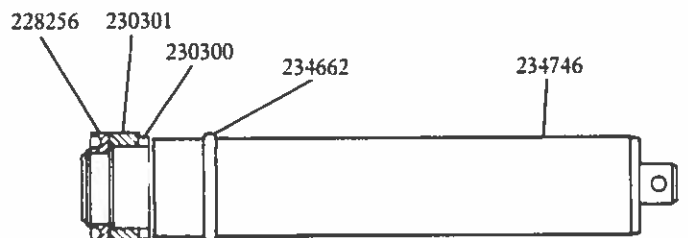


**SECTION B-B**

**234743  
HYDRAULIC UNIT  
ASSEMBLY**



**227045  
PUMP & CYLINDER  
ASSEMBLY**



**234745 RAM ASSEMBLY**

†NOTE: Apply Never-Seez (or comparable lubricant) to threads before tightening.

## SPECIFICATIONS

Low Pickup Height	High Lifting Point	Power Raise	Cap Size (Sq.)	Handle Length	Chassis Length	Chassis Height (Max.)	Front Wheel (Dia.)	Caster Wheel (Dia.)	Min. PSI (Air) For Rated Load
3-3/4"	24"	20-1/4"	6-1/8"	50"	32-3/4"	7-1/4"	3-3/4"	2-1/2"	130

## TROUBLESHOOTING

PROBLEM	SOLUTION
1) Oil leaking thru filler plug.	The reservoir could be overfilled - The filler plug is designed with an automatic ventilator valve which allows excessive air or oil to escape from the hydraulic system.
1) Will not lift load. 2) Will not lift full height. 3) Pump feels "spongy" under load.	The jack could be low on oil - Remove the filler plug and fill reservoir with clean Hydraulic Jack Oil.  The jack could be air bound - Open the release valve one full turn and pump the handle vigorously. Close the release valve and operate.
1) Will not lift load. 2) Air pump stalls under heavy load. 3) Air pump raises load slowly.	Air hose might be plugged - Remove obstruction from hose. Air pressure might be too low - 130 psi minimum air pressure required to lift rated load.
1) Air pump raises load slowly.	Lubrication may have been "washed out" of reversing valve - With the air valve open, squirt 1/2 oz. of SAE 30 lubricating oil into air inlet opening. Connect air hose and allow air pump to cycle a few times to distribute the oil internally.
1) Handle raises under load. 2) Handle lowers under load. 3) Will not lift load. 4) Will not hold load.	The valves might not be closing - Lower the lifting arm and close the release valve. Place one foot on a front wheel and raise the lifting arm to its full height by hand. Open the release valve to lower the lifting arm. The jack should now operate properly.

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. To purge the air from the oil lines, open the release and pump rapidly a few strokes. Close release and pump to full height, then open the release to allow the ram to descend rapidly. If the pump still seems "spongy", repeat the procedure.

**RETAIN THIS INFORMATION FOR FUTURE REFERENCE**

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

LINCOLN ST. LOUIS provides a Distributor Network that stocks equipment and replacement parts.

A list of Authorized Service Departments will be furnished upon request.