

PARTS LIST AND INSTRUCTIONS FOR NOS. 555-B AND 556-B HYDRAULIC JACKS



TO ASSEMBLE

When Jack is received remove all crating strips and stay wires. Remove the handle socket shaft 5557 and bushing 5539 from ends of Jack frames, then place the handle and yoke assembly 5570 between the frames with plunger yoke pin 5578 down, having first put bushing 5539 in handle socket. Secure by replacing socket shaft 5557 and drawing nuts tight so they clamp Jack frames tight against ends of bushing.

Connect plunger link 5562 (see Figure 3) to yoke with pin and secure with cotter pin.

Remove the solid plug from the top of the oil box and replace with vent plug 4752 as shown in Fig. 2.

Oil all casters, wheels and moving parts—Jack is now ready to operate.

TO OPERATE

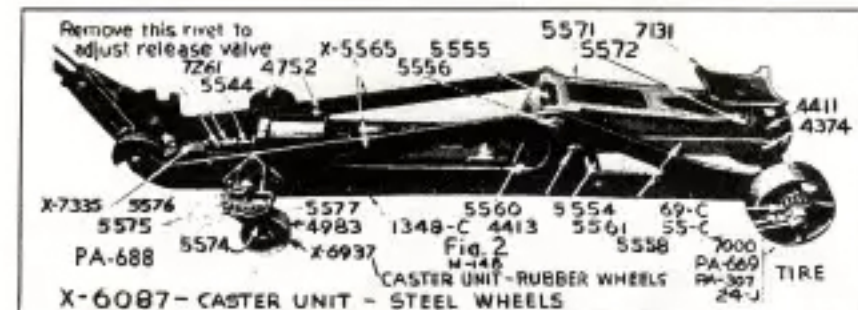
To position the Jack compress the end of lever Q toward handle grip 3497 then it may be pivoted on the casters as shown in Figure 1. To raise load pump the handle by either long or short strokes until the desired height is reached. To lower load compress the end of handle P toward handle grip 3497 until the rest plate drops to its lowest position.

HOW THE JACK OPERATES

When the handle is raised to an upright position the plunger A, Figure 3, is drawn back, forming a vacuum in chamber B which raises ball F, drawing oil from chamber C, filling chamber B. When the operating handle is lowered it pushes plunger A forward forcing oil from chamber B closing ball F against its seat. The oil must now pass through channel T forcing ball H from its seat (as it is held there by a spring) passing through pipe channel D into chamber G. As the pressure is built up in chamber G it forces cylinder K forward, which due to linkage and bell crank mechanism raises the rest plate of the Jack.

When the end of lever P, Figure 1, is pulled toward handle 3497 it compresses the spring 5550, Figure 3, which holds the rod 5538, keeping ball valve R on its seat. As there is a pressure against this valve it is immediately pushed away from its seat allowing the oil to pass through channel

J, past valve R back into oil reservoir C. Spring 5550 is adjusted by means of a locking device 5549 to be equal to two and one-half tons on the rest plate. When more than this weight is put on the axle rest it will automatically overcome the tension of spring 5550 which holds valve R in its seat, allowing all the



oil that is pumped after the maximum weight has been raised to return to oil reservoir C.

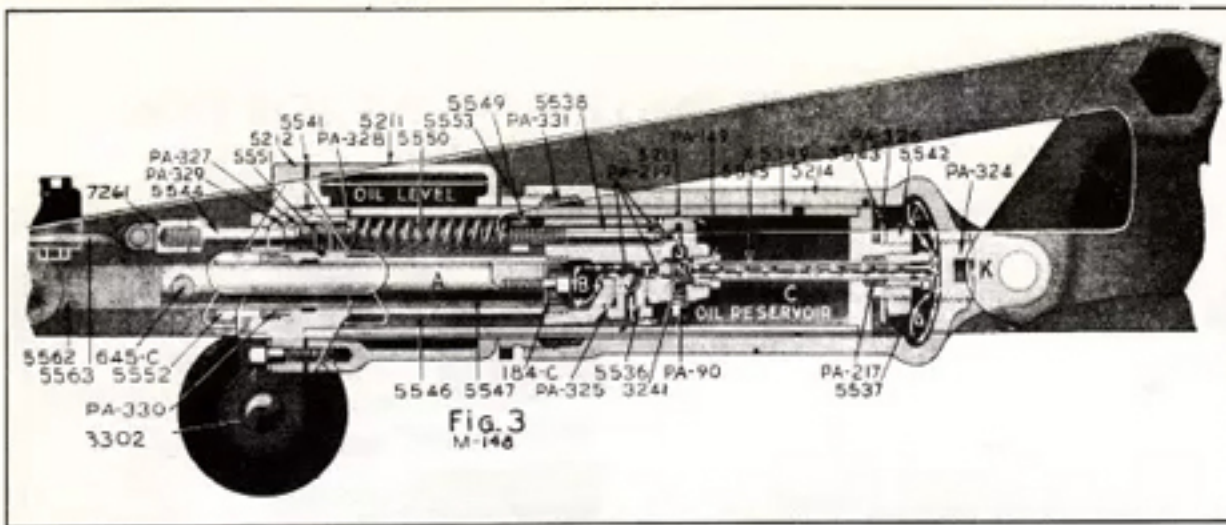


Fig. 3
M-146

ADJUSTMENTS

JACK DOES NOT RAISE WHEN HANDLE IS PUMPED

1. Is there sufficient oil in reservoir C? When refilling use a clean S.A.E. No. 20 oil.
2. Is the oil of a good grade? Heavy oil will not pass ball check F when handle is raised.

JACK WILL NOT RAISE 5000 LBS.

1. Remove the rivet as shown in Figure 2 and turn rod 5544 to right until maximum weight of 5,000 lbs. can be lifted, then replace rivet.

JACK DOES NOT LOWER

1. Determine the lost motion when the lever 3498, Figure 1, is moved. To remove lost motion in the releasing mechanism loosen the lock nut at yoke 5564, Figure 2. Hold release stem 5544 and remove the pin X-7335. Turn the yoke to the right and replace pin. Repeat this adjustment until the lost motion is removed. Lubricate all moving parts and the Jack will lower correctly.

TO PREVENT EXTERNAL LEAKAGE

1. Adjust packing nuts 5552 and 5553 the same as water pump packing on an automobile. When renewing packing place the joints opposite.

PARTS LIST FOR NOS. 555-B AND 556-B HYDRAULIC JACKS

Part No.	No. Reqd.	Description	Part No.	No. Reqd.	Description
24-J	2	Rear Truck Wheel, 5 1/2" Dia.	5231	1	Lowering Cam
55-C	2	Rear Wheel Washer	X-5399	1	Ram Welded Unit
69-C	2	Pins 3/8" Dia. x 2 7/16" (Set of 12)	5536	1	Intake Valve Seat 1" Hex. x 2 7/16"
PA-90	1	Pipe Plug 3/8"	5537	1	Packing Nut 3/4" Hex. x 1"
PA-149	1	Pipe Bushing 3/8" x 1/2"	5538	1	Pin .450" Dia. x 1 1/2"
184-C	1	Cup Washer	5539	1	Spacer 3/8" O.D., .635 I.D. x 5 1/16"
PA-217	1	Garlock Packing 100. 111., 1/2" Dia. x 1 1/2" Long	5541	1	Gasket (Cork)
PA-219	3	Steel Balls 1/8"	5542	1	Nut
PA-638	2 set	Steel Balls 1/8" (Set of 27 Balls)	5543	1	Cup Washer
PA-324	1	Countersunk Head Pipe Plug 1"	5544	1	Release Valve Stem 1/4" Dia. x 2 3/16"
PA-325	1	Copper Asbestos Packed Gasket 2 3/16" I.D., 1 3/16" O.D. x 1/4" Thick	5545	1	Seamless Steel Tubing 3/8" x 4 3/8"
PA-326	1	Special Steel Washer 1 1/8" I.D., 2 3/8" O.D. x 1/4" Thick	5546	1	Pump Cylinder 1 3/16" O.D., 1" I.D. x 5 7/16" Long
PA-327	1	Special Steel Washer 3/8" I.D., 1 1/2" O.D. x 1/4" Thick	5547	1	Plunger 1" x 8 3/4" Long
PA-328	1	Special Steel Washer 3/8" I.D., 1 3/16" O.D. x 1/4" Thick	5549	1	Spring Adjustment Nut
PA-329	2	No. 333 Solid Ring Garlock Packing 1 1/8" I.D., 3/4" O.D. x 1/4" Wide	5550	1	Compression Spring
PA-330	4	No. 333 Split Ring Garlock Packing 1" I.D., 1 3/8" O.D. x 3/8" Square	5551	1	Compression Spring
PA-331	2	No. 333 Split Ring Garlock Packing 3" I.D., 3 3/8" O.D. x 3/8" Square	5552	1	Packing Nut 1 1/2" Dia. x 1"
645-C	1	Pin 1/2" Dia. x 1 3/8"	5553	1	Packing Nut
1248-C	2	Tension Spring	5554	1	Spacer 1/2" x 5 3/8"
3241	1	Compression Spring	5555	1	Spacer 3/8" O.D., .759" I.D. x 5 1/16" Long
3302	2	Pin 3/8" Dia. x 2 7/16"	5556	1	Stud 3/8" Dia. x 7 1/2"
3390	1	Positioning Pin 1/2" x 1/2" x 4 3/4"	5557	1	Stud 3/8" Dia. x 7 1/2"
3391	1	Operating Rod 1/4" Dia. x 39 1/16"	5558	1	Axle 1" Dia. x 14 1/2"
3497	1	Pump Handle	5560	1	Pin 3/8" Dia. x 5"
3498	1	Control Handle	5561	2	Link 3/8" x 1 1/2" x 14 1/2"
3501	1	Operating Bell Crank	5562	1	Link 1/2" x 1" x 4 3/4"
3515	1	Pin 1/2" Dia. x 1"	5563	1	Release Link 1/2" x 3/8" x 3 1/8"
3519	1	Handle Tube 1 3/16" x 35 3/4"	X-5565	1	Frame Unit with Spacer welded in place and Caster Yoke Brackets attached
3768	1	Tension Spring	5570	1	Handle Yoke
4374	1	Pin 3/8" Dia. x 5 1/2" Long	5571	1	Bell Crank
4411	2	Rear Wheel Spacer	5572	1	Rest Plate Bearing
4413	2	Drag Link Stud 3/8" Hex. x 1 1/2"	5574	2	Caster Yoke
4752	1	Special Pipe Plug 1/4"	5575	4	Ball Race
4983	2	Caster Wheels	5576	2	Acorn Nut
5211	1	Oil Box	5577	2	Special Hex. Hd. Cap Screw 3/4" Hex. x 2" Long
5212	1	End Plate	5578	1	Special Rivet 1/2" x 1 1/2" Rd. Hd.
5213	1	Valve Body	7000	2	Rear Truck Wheels 4 1/2" Dia.
5214	1	Cylinder	7131	1	Rest Plate
			7261	1	Release Yoke
			X-7335	1	Safety Pin Unit
					All bolts, nuts, rivets and washers (must be ordered by size and thread)

PARTS LIST TO CONVERT THE NO. 555-B JACK INTO A NO. 556-B (For Jacks with either 5 1/2" wheels or 4 1/2" wheels)

Part No.	No. Reqd.	Description	Part No.	No. Reqd.	Description
7453	2	4 1/2" Dia. Fabric Tired Wheels 2 3/8" Face, Hub 2 3/8" Long, 1.758"	X-6937	2	Caster Unit
			X-6087		Caster Unit for Steel Wheels

X-6937 CASTER UNIT CONSISTS OF THE FOLLOWING:

7452	1	3 1/2" Rubber Tired Wheel, Bore 3/4", Hub 1 3/16", Face of Wheel 1 1/16"	5577*	1	1 Special Hex. Hd. Cap Screw 3/4" Hex. x 2" Long
3802	1	Pin 3/8" x 2 7/16"	5574	1	Caster Yoke

*NOTE: The special Hex. Hd. Cap Screw No. 5577 must be sent with the Caster Unit as it cannot be put in after the wheel is riveted in place.