

REPAIR PARTS LIST

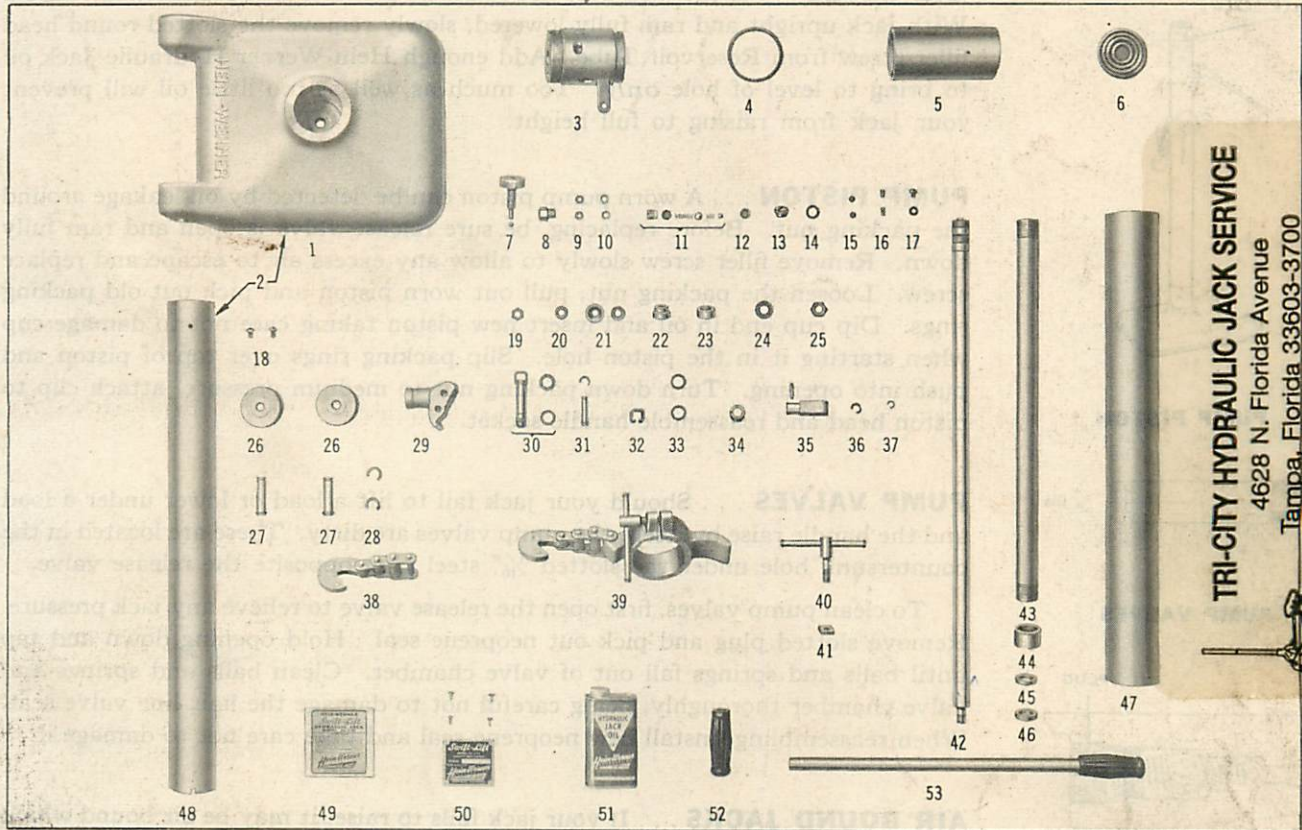
HEIN-WERNER

HYDRAULIC

Swift-Lift

MODEL SL-236

CAPACITY 1½ TONS



TRI-CITY HYDRAULIC JACK SERVICE
 4628 N. Florida Avenue
 Tampa, Florida 33603-3700
 (813) 236-8551

Order by PART NUMBER — not the item number — and give name of part, serial and model number of Jack. Item numbers shown on parts photo are only for your convenience in locating part on parts list.

Order repair parts direct from nearest Hein-Werner Official Service Station.

Item No.	Part No.	PART NAME	No. per Jack	Dealer Net Price	Item No.	Part No.	PART NAME	No. per Jack	Dealer Net Price
1	M-210-2	Base only	1	\$27.37	27	293-1	Axle with 389-C	2	.46
2	0-M-210-2	Base with Sleeve and Wheels ass'd.	1	44.40	28	389-C	½" Pin Ring for Axle	4	.06
3	202-2	Unit Body only with Handle Post	1	18.62	29	212-1	Handle Socket	1	3.00
4	181	"O" Ring Seal	1	.75	30	216-2	Pump Piston Ass'y. 9/16" Dia.	1	2.87
5	214-35-2	Reservoir Tube, #237-1 Ram Head	1	5.40	31	221-2	Piston & Handle Socket Pin	2	.19
6	237-1	Ram Head	1	3.00	32	178-B	Clip for Piston	1	.14
7	219-3	Release Screw w/Packing and Ball	1	2.25	33	235-4	Piston Packing, Set of 2	2	.19
8	218	Release Screw Packing Nut	1	.90	34	242-4	Piston Packing Nut	1	.81
9	136-B	Release Screw Packing—Set of 2	2	.14	35	290-1	Handle Socket Post, #568 Pin	1	.90
10	161-B	Release Screw Washer—Set of 2	2	.06	36	389-A	¾" Pin Ring for Piston Pin	4	.06
11	25-A	Pump Valve complete	1	.42	37	389-B	5/16" Pin Ring for Link Pins	10	.06
12	385	Pump Valve Seal	1	.06	38	0-123-3	Lifting Hook with Links	1	2.87
13	288-1	Slotted Plug for Piston Hole	1	.65	39	295-35	Clamp and Hook Ass'y. complete	1	8.87
14	285-1	Rubber Washer for Piston Plug	1	.18	40	245-1	Clamp Screw, #256 Cross Pin	1	1.12
15	185-A	Oil Channel Seal, 7/32" Dia.	2	.06	41	¾"-16	Nut for Clamp Screw	1	.07
16	129-B	Oil Channel Plug, 5/16" Dia.	2	.07	42	215-35-1	Ram Assembly	1	8.60
17	138	Filler Screw with Washer	1	.07	43	213-35-1	Ram Cylinder	1	3.75
18	¼-28 x ¾	Round Head Screw for Base	2	.07	44	111-30	End Nut	1	1.37
19	143	Ram Cup Nut	1	.07	45	134	Ram Packing	1	.21
20	122	Ram Cup Retaining Washer	2	.12	46	117	Ram Packing Nut	1	.27
21	124-A	Ram Cup, #227 Backing Washer	2	.66	47	2100-35	Outside Tube	1	5.68
22	220-1	Cup Spacer	1	.75	48	2101-35-1	Post Tube	1	8.12
23	220-2	Backing Washer for Cup (Brass)	1	.90	49	SL-240	Decal	1	.20
24	322	Bottom Ram Retaining Washer	1	.06	50	SL-103	Nameplate, 4-G-343 Screws	1	.28
25	J-343	Bottom Ram Retaining Nut	1	.06	51	Quart	Hydraulic Jack Oil	1	-
26	204-1	Wheel	2	1.31	52	228-R	Rubber Grip	1	.48
					53	228-4	Handle, 228-R Grip	1	2.00

Prices effective Nov. 15, 1961 All prices are f.o.b. Waukesha, Wisconsin and subject to change without notice.

Use Only Genuine Hein-Werner Hydraulic Jack Oil in any Hein-Werner Jack

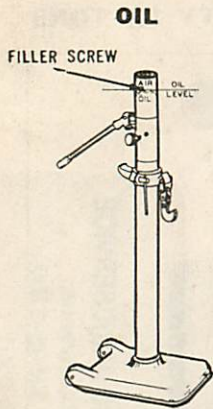
HEIN-WERNER CORPORATION

WAUKESHA, WISCONSIN

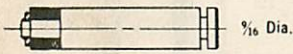
Litho in U.S.A.

SERVICE INSTRUCTIONS

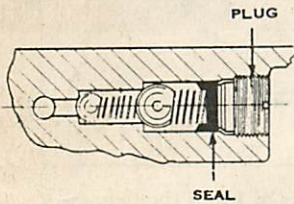
HEIN-WERNER HYDRAULIC *Swift-Lift*



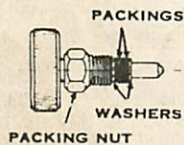
PUMP PISTON



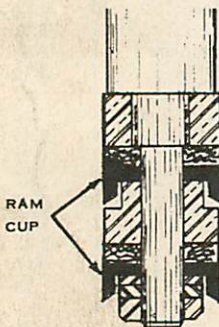
PUMP VALVES



RELEASE VALVE



RAM



OIL LEVEL . . . If the jack does not raise full distance it is probably low on oil. With jack upright and ram fully lowered, slowly remove the slotted round head filler screw from Reservoir Tube. Add enough Hein-Werner Hydraulic Jack oil to bring to level of hole *only*. Too much as well as too little oil will prevent your jack from raising to full height.

PUMP PISTON . . . A worn pump piston can be detected by oil leakage around the packing nut. Before replacing, be sure release valve is open and ram fully down. Remove filler screw slowly to allow any excess air to escape and replace screw. Loosen the packing nut, pull out worn piston and pick out old packing rings. Dip cup end in oil and insert new piston taking care not to damage cup when starting it in the piston hole. Slip packing rings over top of piston and push into opening. Turn down packing nut to medium pressure, attach clip to piston head and reassemble handle socket.

PUMP VALVES . . . Should your jack fail to lift a load or lower under a load and the handle raise by itself, the pump valves are dirty. These are located in the countersunk hole under the slotted $\frac{1}{16}$ " steel plug opposite the release valve.

To clean pump valves, first open the release valve to relieve any jack pressure. Remove slotted plug and pick out neoprene seal. Hold opening down and tap until balls and springs fall out of valve chamber. Clean balls and springs and valve chamber thoroughly, being careful not to damage the hair line valve seat. When reassembling, install new neoprene seal and take care not to damage it.

AIR BOUND JACKS . . . If your jack fails to raise, it may be air bound which sometimes happens to hydraulic jacks in transit or when upset. To relieve, open the release valve and place jack in horizontal position with release valve on under side. Pump handle 6 full strokes to expel excess air.

RELEASE VALVE . . . The jack may fail to lift or hold a load if the release valve is dirty. To clean, turn out by the large hex packing nut and pick out packings, washers and ball. Clean valve seat and inspect ball. Reassemble as illustrated and take care to avoid loose shreds of packing.

RAM CUP . . . If your jack tends to lower slowly under a load, the ram cups may be worn. To replace, first remove the nut and washer on the underside of the base. Lift jack off base and place in soft-jawed vice so jaws close only on the solid steel unit body. Remove threaded large outside sleeve, packing nut and packing. Turn out cylinder end nut with a pipe wrench. Pull out ram, remove old ram cups, spacer and backing washer, install new cups. Tighten retaining nut securely and center punch. Before inserting ram, check walls of cylinder for scores. Dip new ram cups in oil and take care not to damage them when inserting ram in cylinder. After making sure ram cylinder is securely tightened, turn down end nut, install packing, packing nut and outside sleeve. Reassemble jack to base.

SERVICE STATIONS . . . When general repairs are required, ask your jobber or write us for the name of the nearest Hein-Werner Official Service Station where complete facilities are available to restore your jack to good working condition.

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