Hein-Werner

MODEL V1.23, E1.7F, E3.9A, E5.9A, E8.9A, E12.9A "SERIES 1" HYDRAULIC JACK

GENERAL MAINTENANCE and OPERATING INSTRUCTIONS

With reasonable care, the Hein-Werner Hydraulic Jack will give a long life of service. Depending on the amount of usage, some vital parts may have to be replaced periodically. Contact the nearest Hein-Werner service station in your area for replacement parts and/or repair service.

IMPORTANT: Do not overload the Jack above the rated capacity.

Prevent "side-loading" — make sure load is centered.

Do not push or tilt load off from the Jack.

NOTE: A Jack may become "airbound" in transit, or due to being upset, in which case the Jack will fail to raise. Remedy this situation by extending the Ram manually, opening the release valve, (23), and then pushing the Ram down, thus expelling air which may have entered the system.

1. OIL: Jack should always be filled with oil to filler hole level. Filler hole (2) is located on reservoir tube approximately ⅔ the way up the tube. Oil level should be checked with the Ram fully retracted and the Jack standing in the upright position. Make sure **no** dirt or other foreign matter enters the reservoir while checking oil level and refilling. **IMPORTANT: Use only Hein-Werner Hydraulic Jack Oil.**

2. PUMP PISTON: Oil leakage around pump piston (21) while the Jack is under load, or short Ram stroke, is an indication the pump piston (21) needs replacement. To make this replacement, first remove the handle socket (15) and piston clip (17) then loosen and remove the packing nut (19). Old piston along with the packing (20) may now be removed from the Jack base (12). Before installing new piston and packing, make sure piston chamber is thoroughly clean. New pump piston should be coated with Jack oil to permit easy installation and to avoid damage to the pump piston cup.

3. RELEASE VALVE: If Jack fails to lift the load, hold the load, or the ram stroke is short, the Release Valve (23) may need cleaning or replacement. To make this determination, remove the release valve by loosening release valve packing nut (26). Packing (24) and washers (25) may remain in the valve chamber when screw is removed, but these should also be removed so that the release valve chamber may be inspected and cleaned thoroughly. Check the valve seat for nicks and the point of the release screw for scratches and damage. If old release screw is reinstalled in the Jack, it is recommended that new packing be used. New release screws are shipped complete with packing.

4. PUMP VALVES: Pump valves (27) and valve seats must be clean and in good condition at all times. This is the most critical area of a Hydraulic Jack. Failure to develop necessary Hydraulic pressure may be the result of a piece of dirt on the edge of a valve seat, a damaged or corroded ball, or defective spring. Valves may be inspected by removing the pump valve plug (29) and valve seal (28). The springs and balls are removed by tipping the Jack on its side so that balls and springs drop out. Make sure no pressure is in the system prior to removing the pump valves by first opening the release valve. Valve chamber should be inspected for dirt and contamination. The valve seats should be given particular attention for damage or dirt. Balls and springs should be free of dirt, corrosion, nicks, notches, or other forms of damage. Reassemble valve components, replacing defective parts, in order shown in the illustration on the reverse side, i.e. (a) small ball-(b) small spring-(c) large ball-(d) large spring-(e) valve seal, and (f) valve plug. Valve seal should be installed using special tool SS-12.

5. RAM CUP: If the ram (6) lowers under load, it is an indication of oil leaking past a worn, damaged, or defective ram cup (8). Check the condition of the Ram Cup by removing the top nut (4) and extracting the Ram (6) from the Cylinder (11). While the Ram is removed from the Cylinder, the Cylinder should be checked for scoring or any other damage.

Before reassembly, remove old shellac from top of reservoir tube (5). Top of reservoir tube should then be brushed with shellac, and top nut (4) installed securely.

6. EXTENSION SCREW: Replace a damaged extension screw (1) by placing the ram in a soft-jaw vise, fully extending the screw, and tapping the screw gently to dislodge the locking pin. New extension screw may be reinstalled immediately.

USE ONLY GENUINE HEIN-WERNER HYDRAULIC JACK OIL IN ANY HEIN-WERNER JACK

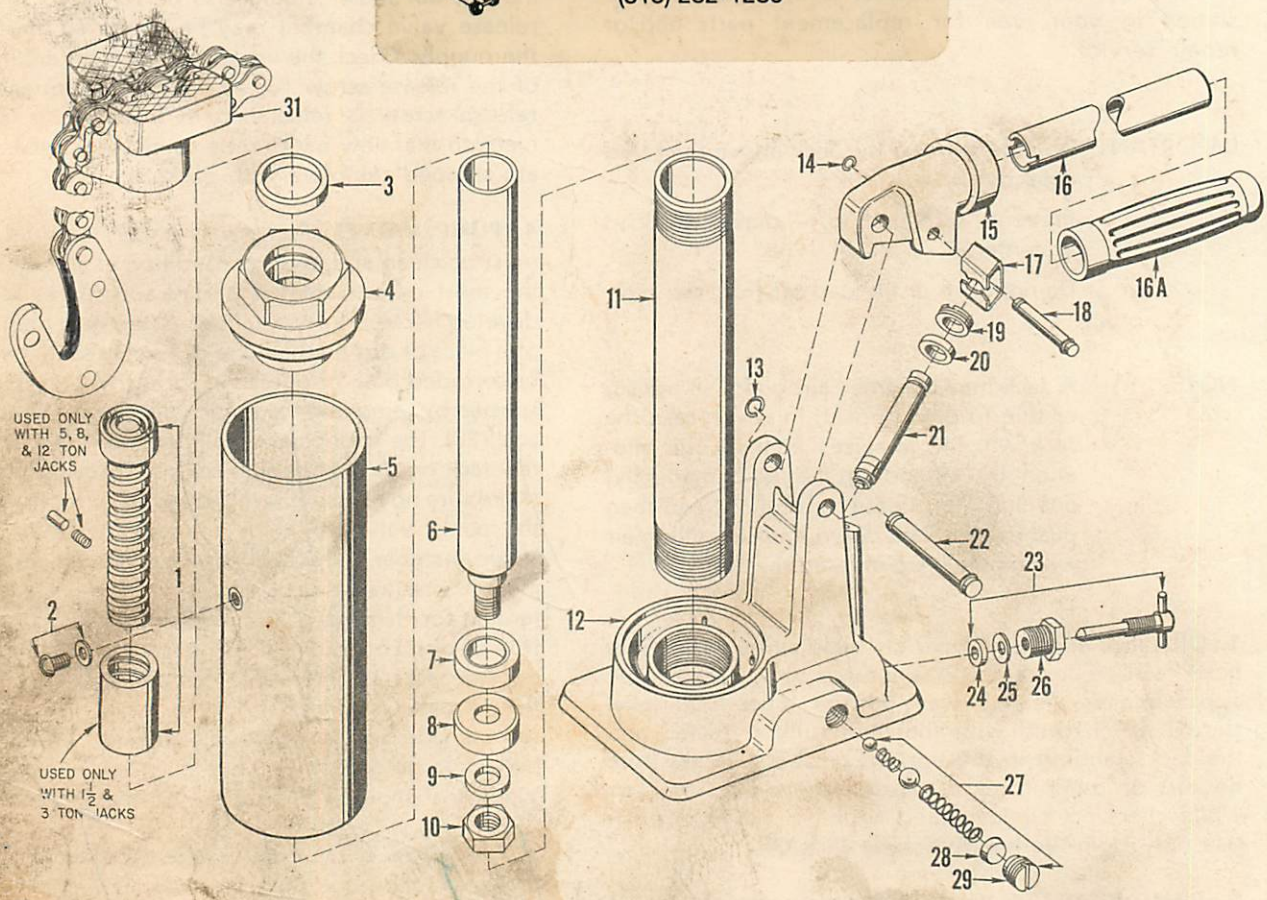
REV. 2-3-69

HEIN-WERNER CORP. WAUKESHA, WISCONSIN 53186 ■ AJAX, ONTARIO

MODEL V1.23, E1.7F, E3.9A, E5.9A, E8.9A, E12.9A
"SERIES 1"

HYDRAULIC JACK
REPAIR PARTS LIST

TRI-CITY HYDRAULIC JACK SERVICE
4628 N. Florida Avenue
Tampa, Florida 33603-3700
(813) 232-1230



Item numbers shown above are only for your convenience in locating the part on the parts list. When ordering, always specify the PART NUMBER — not the item number — and give complete name of part and model number of jack. If the length of the part is shown on the parts list, verify it with the old part. If different, state exact length and diameter of old part.

ORDER REPAIR PARTS DIRECT FROM NEAREST HEIN-WERNER OFFICIAL SERVICE STATION

HEIN-WERNER CORP. WAUKESHA, WISCONSIN 53186 ■ AJAX, ONTARIO

#3-30125 order Amco D2096-25

MODEL V1.23, E1.7F, E3.9A, E5.9A, E8.9A, E12.9A

"SERIES 1"

TRI-CITY HYDRAULIC JACK SERVICE
4628 N. Florida Avenue
Tampa, Florida 33603-3700
(813) 232-1280

HYDRAULIC JACK REPAIR PARTS LIST

		MODEL VI23.1	MODEL E1.7F-1	MODEL E3.9A-1	MODEL E5.9A-1	MODEL E8.9A-1	MODEL E12.9A-1
		Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
1	Extension Screw Assembly		8240	9685	14540	15815	3360
2	Filler Scr. & Wshr. (or) Filler plug	18371	18371	25620	25620	25620	25620
3	Quad Ring	20625	20625	20675	20725	20750	20785
4	Top Nut	8465	852	10423	13128	15597	1837
5	Reservoir Tube	18462	18454	10650	13170	15661	14934
6	Ram Assembly	7750	8180	9460	12730	12810	14895
	Backing Washer (not shown)	3340					
7	Spacer	1690	1720	10710	13210	15165	2060
8	Cup	2525	2525	11115	13290	15245	2160
9	Retainer	1970	1970	11030	13260	15210	2105
10	Hex Jam Nut	26270	26270	18960	18960	18960	18960
11	Cylinder	945	970	10580	13145	15630	1860
12	Base w/Pump Valves	18422	18418	18424	18417	18427	18419
13	Pin Ring	12415	12415	12415	12415	12415	12415
14	Pin Ring	12165	12165	12165	12165	12165	12165
15	Handle Socket	18444	18444	18442	18442	18442	18442
16	Handle Assembly	3465	8210	9595	9595	9595	9595
16A	Handle Grip			9330	9330	9330	9330
17	Clip	7030	7030	7030	7030	7030	7030
18	Pin	1761	1761	10865	10865	10865	10865
19	Packing Nut	5330	5330	5330	5330	5330	5330
20	Packing	4145	4145	4145	4145	4145	4145
21	Piston Assembly	7845	7845	7845	7845	7845	7845
22	Pin	1760	1760	10860	10860	10860	10860
23	Release Screw Assembly	8020	8020	8020	8020	8020	8020
24	Packing	4520	4520	4520	4520	4520	4520
25	Washer	6230	6230	6230	6230	6230	6230
26	Nut	1290	1290	1290	1290	1290	1290
27	Pump Valves	80127	80127	80345	80346	80348	80348
28	Seal	11520	11520	11520	11520	11520	11520
29	Plug	11855	11855	11855	11855	11855	11855
30	Decal (Not Shown)	55354	55355	55356	55357	55358	55359
31	Chain & Hook Assembly	80342					