

INSTRUCTION MANUAL REPAIR PARTS LIST

2-SPEED HYDRAULIC PUMP

PART CODE H3123200

▲ WARNING

1. READ, STUDY AND UNDERSTAND ALL WARNING LABELS AND OPERATING INSTRUCTIONS FURNISHED WITH THIS EQUIPMENT PRIOR TO USE. IF ANY PORTION OF THIS MATERIAL IS UNCLEAR CONTACT YOUR REPRESENTATIVE FOR CLARIFICATION.
2. NEVER ALLOW UNSKILLED OR IMPROPERLY TRAINED PERSONNEL TO OPERATE THIS EQUIPMENT.
3. USE THIS PUMP ONLY WITH RAMS, HOSES, EQUIPMENT AND ACCESSORIES RATED FOR 10,000 PSI OIL PRESSURE.
4. DO NOT OVERLOAD. OVERLOADING IS OFTEN INDICATED BY BOWING EXTENSION TUBES OR SLIPPING ATTACHMENTS AND CAN RESULT IN PERSONAL INJURY OR DAMAGE TO THE EQUIPMENT.
5. ALWAYS USE A PRESSURE FORCE GAUGE IN THE SYSTEM TO MONITOR PUMP OUTPUT PRESSURE OR SYSTEM FORCE.
6. DO NOT CONNECT PUMP TO ANY HYDRAULIC CYLINDER THAT IS EXTENDED OR PARTIALLY EXTENDED.
7. PRIOR TO USE ALWAYS BLEED HYDRAULIC SYSTEM TO REMOVE ALL AIR FROM HOSES AND HYDRAULIC EQUIPMENT.
8. DO NOT OPEN RESERVOIR FILLER SCREW UNLESS HYDRAULIC CYLINDER IS FULLY RETRACTED.
9. MAINTAIN PROPER OIL LEVEL IN PUMP RESERVOIR. OVERFILLING WILL CAUSE DAMAGE TO OR FAILURE OF THE PUMP. USE ONLY HYDRAULIC OIL RECOMMENDED BY THE MANUFACTURER. DO NOT USE BRAKE, TRANSMISSION OR FIRE RESISTANT FLUIDS.
10. BE CERTAIN ALL HYDRAULIC CONNECTIONS ARE TIGHT AND LEAK FREE. LOOSE FITTINGS OR COUPLINGS MAY RESULT IN EQUIPMENT MALFUNCTION.
11. DO NOT OVERTIGHTEN ANY CONNECTIONS. EXCESSIVE TIGHTENING MAY CAUSE FAILURE AT PRESSURES BELOW RATED CAPACITY.
12. THIS IS A PUMPING DEVICE ONLY. DO NOT USE PUMP TO MAINTAIN HYDRAULIC PRESSURE ON EQUIPMENT. SECURE LOADS BY OTHER APPROPRIATE MEANS.
13. RELEASE ALL HYDRAULIC PRESSURE BEFORE DISCONNECTING HOSES OR ACCESSORIES.
14. THIS PUMP IS TO BE USED ONLY WITH HOSES OR ACCESSORIES SUPPLIED, APPROVED OR CERTIFIED BY THE MANUFACTURER.
15. NEVER USE A HOSE THAT HAS BEEN DAMAGED, WORN, CUT, KINKED OR SUBJECTED TO HYDRAULIC SHOCK LOADING.
16. WHEN USING PUMP AND RAM TO PUSH, BEND OR STRAIGHTEN, BE CERTAIN THAT THE CONTACT POINT IS SECURE AGAINST THE OBJECT BEING WORKED UPON.
17. DO NOT EXTEND HANDLE LENGTH OR USE A CHEATER PIPE OR OTHER HANDLE EXTENSION. USE ONLY THE HANDLE PROVIDED BY THE MANUFACTURER.
18. WHEN OFFSET ATTACHMENTS ARE USED, THE RATED CAPACITY IS ALWAYS REDUCED BY 50%. FOR EACH EXTENSION TUBE USED IN THE SETUP, THE OVERALL RATED CAPACITY IS REDUCED AN ADDITIONAL 50%. REFER TO THE OPERATING INSTRUCTIONS PROVIDED FOR TYPICAL SETUPS AND CORRESPONDING LOAD CAPACITIES.
19. PRIOR TO APPLYING A LOAD, INSURE THAT ALL ATTACHMENTS AND EXTENSION TUBES ARE FULLY ENGAGED.
20. INSURE LOAD IS CENTRALLY APPLIED TO ATTACHMENTS AND RAM SADDLE, TO MINIMIZE AN OFF CENTER LOAD CONDITION.
21. DO NOT CONTINUE TO PUMP WHEN RAM IS FULLY EXTENDED.
22. IT IS YOUR RESPONSIBILITY TO KEEP ALL WARNING LABELS AND INSTRUCTIONAL LITERATURE LEGIBLE AND INTACT. REPLACEMENT LABELS AND LITERATURE ARE AVAILABLE FROM THE FACTORY.
23. FAILURE TO HEED THESE WARNINGS WILL RESULT IN EQUIPMENT AND/OR PROPERTY DAMAGE AND/OR PERSONAL OR FATAL INJURY.

OWNER'S RESPONSIBILITY

Operation. The owner and/or operator shall have an understanding of these operating instructions and warnings before operating this equipment. Warning information shall be emphasized and understood. If the user is not fluent in English, the instructions and warnings shall be read to and discussed with the operator in the operator's native language by the purchaser/owner, making sure that the operator comprehends its contents.

Maintenance. This equipment shall be maintained in accordance with instructions listed under "Maintenance."

Inspection

1. Visual inspection shall be made before each use of this equipment checking for leaking hydraulic fluid and worn or damaged hose and fittings.
2. Each piece of equipment shall be inspected by an

authorized Hein-Werner service center immediately, if subjected to an abnormal load or shock.

- Owners and/or users should be aware that repair of this equipment may require specialized knowledge and facilities. It is recommended that an annual inspection of this equipment be made by an authorized Hein-Werner service center and that any defective parts, decals or warning labels be replaced with genuine Hein-Werner parts. A list of authorized service centers is available from Hein-Werner.

Damaged Equipment. Any equipment which appears to be damaged in any way, is found to be badly worn, or operates abnormally **SHALL BE REMOVED FROM SERVICE** until necessary repairs are made by an authorized Hein-Werner service center.

BASIC PRINCIPLES OF OPERATION (See Figure 1)

- To prepare the pump and ram for operation, remove dust covers (1 and 2) from hose coupler (3) and ram coupler (4). Connect hose coupler to ram coupler and thread retaining ring on to hold hose in position.

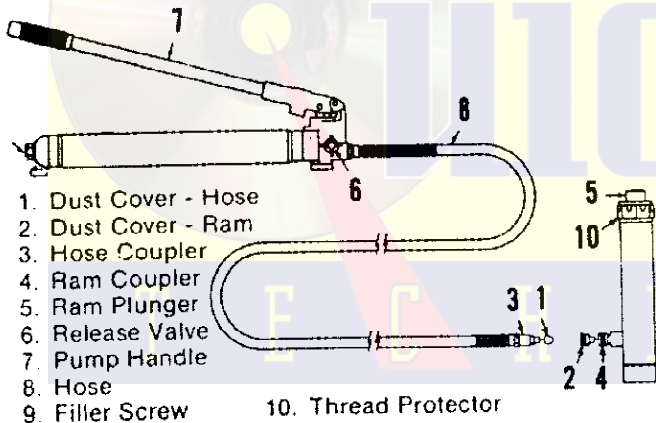


FIGURE 1

- Operation.** To operate - close the release valve (6) by turning clockwise until snug (do not overtighten). Operate pump handle (7) which pumps oil through hose (8) to the ram, causing the ram plunger (5) to extend until it contacts the workpiece. Continue pumping until the desired operation is completed.

NOTE: The pump is equipped with an overload valve that will by-pass (pump oil back into reservoir) when the system reaches maximum pressure. At this point, continued pumping will have no effect on system.

Be careful, however, to watch for signs that the system is overloading or that the equipment setup is unstable. If shifting of attachments occurs - release the pump immediately and reposition equipment.

- To release the pump and retract the ram plunger, slowly turn the release valve (6) counterclockwise. The release speed can be controlled by the amount the release valve is turned.

PUMP OPERATING POSITIONS (See Figures 2 and 3)

When the pump is used in a horizontal position, the handle must be on top as shown in figure 2. When the pump is used in a vertical position, the hose must be pointed downwards (fig. 3). Any other position will prevent oil from being pumped into the hose and ram.

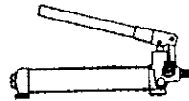


FIGURE 2

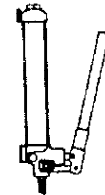


FIGURE 3

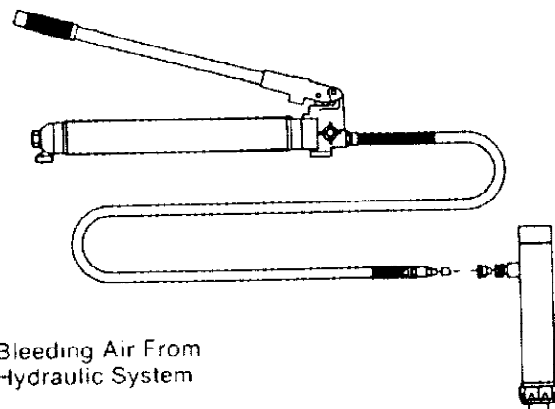
MAINTENANCE

- When the equipment is not in use, keep the ram retracted and the pump release valve closed.
- Keep equipment clean. Lubricate moving parts on pump handle. Store in box when not in use. Avoid sharp kinks in hose.
- Check oil level frequently. Add or drain oil as necessary to maintain proper oil level. Replace filler plug. Use only Hein-Werner hydraulic jack oil. Do not use brake fluid.

OPERATION

TROUBLESHOOTING

- Occasionally during transit or storage, or through use, the pump or ram can become low on fluid, or air can be introduced into the system causing it to become "air-bound."
- To bleed hydraulic system - place pump in a horizontal position and place ram so that the ram plunger is pointed downward (Figure 4). The ram and hose must be lower than the pump discharge port. Open release valve fully, and pump handle full stroke 10-12 times. Close release valve. Pump to extend ram plunger fully, then release. Repeat two or three times if required.



Bleeding Air From Hydraulic System

FIGURE 4

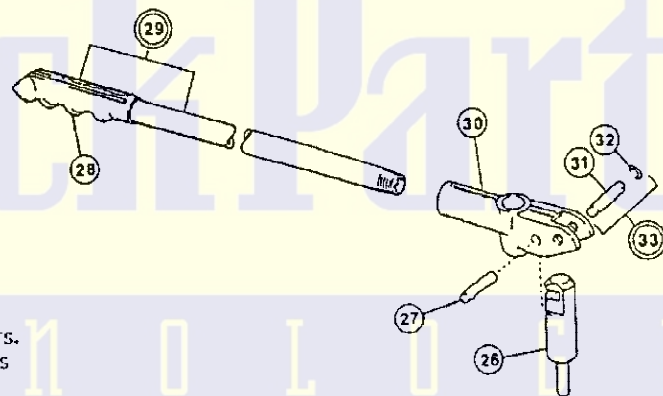
2-SPEED HYDRAULIC PUMP

PART CODE H3123200

Item No.	Part Code	Description	Qty. Required
1	CL244950	Filler Plug Assembly	1
*2	BB159167	Gasket	5
3	BS412300	Rest Nut	1
4	BB242267	Pump Rest	1
*5	BU30X900	Release Valve Kit	1
*6	BB109900	Release Valve	1
*7	BMJ11100	Packing Nut	2
*8	CL213108	Conical Spring Washer	1
*9	BB217074	Valve Packing	3
10	BB247185	Plug	1
11	BP307180	Screen	1
*12	BS303700	Gasket	1
13	BC949900	Relief Valve	1
14	BP181190	Safety Valve	1
15	BB245900	Reservoir	1
16	BC960900	Bypass Valve	1
*17	BU31X100	Power Circuit Kit	1
18	H0334500	Ball 7/32"	2
19	H0256900	Ball 5/16"	2
20	BS118300	Spring	2
21	CL245950	Valve Plug Spacer Assembly	1
22	BU31X000	Pump Piston Kit	1

Item No.	Part Code	Description	Qty. Required
23	BK514041	"O" Ring	1
24	BC914317	Back-Up Washer	1
25	BC912044	Wiper	1
26	CN464051	Piston Pump Plunger	1
27	BP755700	Plunger Cross Pin	1
28	BB525550	Grip	1
29	H2871400	Handle w/Grip	1
30	B1130601	Beam	1
31	CB334060	Beam Pin	1
32	CB415044	Retaining Ring	2
33	BK302900	Beam Pin w/Ring	1
*34	BU31X200	Speed Circuit Kit	1
35	BB249185	Plug	1
36	BC948005	Base	1
*37	B1011564	Back-Up Washer	1
*38	B1011803	"O" Ring	1
39	BS151670	Gasket	1
40	H0548200	Coupler, Complete	1
41	H0563000	Coupler, Ram Half	1
42	H0560500	Coupler (Hose Half)	1
43	H6053800	6 Ft. Hose	1
†44	H2896200	Repair Kit	1
†45	H2871300	Decal, Model	1
†46	H2903200	Warning Decal	1

* Available individually or in Kit H2896200
 † Not Shown



USE ONLY HEIN-WERNER JACK OIL AND GENUINE FACTORY PARTS.
 USE OF OTHER HYDRAULIC FLUIDS OR NON-GENUINE PARTS VOIDS WARRANTY.
 NEVER USE DRAKE FLUID.

