



Operating Instructions Models 35100 and 35101 Hydrostatic Test Pumps

Specifications

35100	
DIMENSIONS:	16" (40cm) L x 22" (55cm) W x 18" (45cm) H
WEIGHT:	91 lbs., 41.5 kg
PUMP:	Twin Piston: Positive Displacement Inlet & Outlet Ports: ½"NPT Capacity: 3gpm, 11lpm Pressure: Maximum pressure 500psi (34 bar) Operating Speed: 1725rpm Lubrication: Chassis Grease Shaft Size: 5/8"
MOTOR:	1hp, 115/230V, 1ph, 60hz, 1725rpm
CONTROL:	Adjustable pressure relief valve
GAUGE:	Glycerin filled, 0 – 2000psi, (136 bar)
DISCHARGE HOSE:	½" x 10' (3m), 2000psi (136 bar)



35101	
DIMENSIONS:	16" (40cm) L x 22" (55cm) W x 18" (45cm) H
WEIGHT:	91 lbs., 41.5 kg
PUMP:	Twin Piston: Positive Displacement Inlet & Outlet Ports: ½"NPT Capacity: 3gpm, 11lpm Pressure: Maximum pressure 500psi (34 bar) Operating Speed: 1725rpm Lubrication: Chassis Grease Shaft Size: 5/8"
MOTOR:	1hp, 220V, 1ph, 50hz, 1725rpm
CONTROL:	Adjustable pressure relief valve
GAUGE:	Glycerin filled, 0 – 2000psi, (136 bar)
DISCHARGE HOSE:	½" x 10' (3m), 2000psi (136 bar)



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Pressure Feed or Gravity Feed: (Preferred Method #1)

1. Fill the water line (or test vessel) to be tested prior to pump connection.
2. Connect water supply hose to the garden hose inlet (A) connection on the pump.
3. Open valve and turn supply water on.
4. Purge the pump and pressure hose of all air.
5. Connect output (pressure) hose between pump outlet connection (D) and water line (or vessel) being tested
6. Turn pump on.
7. Purge water line (or vessel) of all air at the highest point of the system.
8. Bring water line (or vessel) to pressure. Watch the gauge (F) while pumping. When the desired pressure is achieved, turn the isolation valve (C) to the "off" position. The motor can now be turned off. If pressure drops, there is a leak in the line.

Siphon Method

Use a clean water source

1. Fill the water line to be tested.
2. Fill the intake hose (WR PN #34550 - not supplied with pump), with water, then quickly place the hose into a bucket and turn pump on. (The unit is self-priming once primed.) Continue to run pump until you see the water coming out of the outlet, with little or no air mixed with it.
3. Connect the output hose to the water line. Continue on with steps 6 through 8 in Pressure Feed Method.



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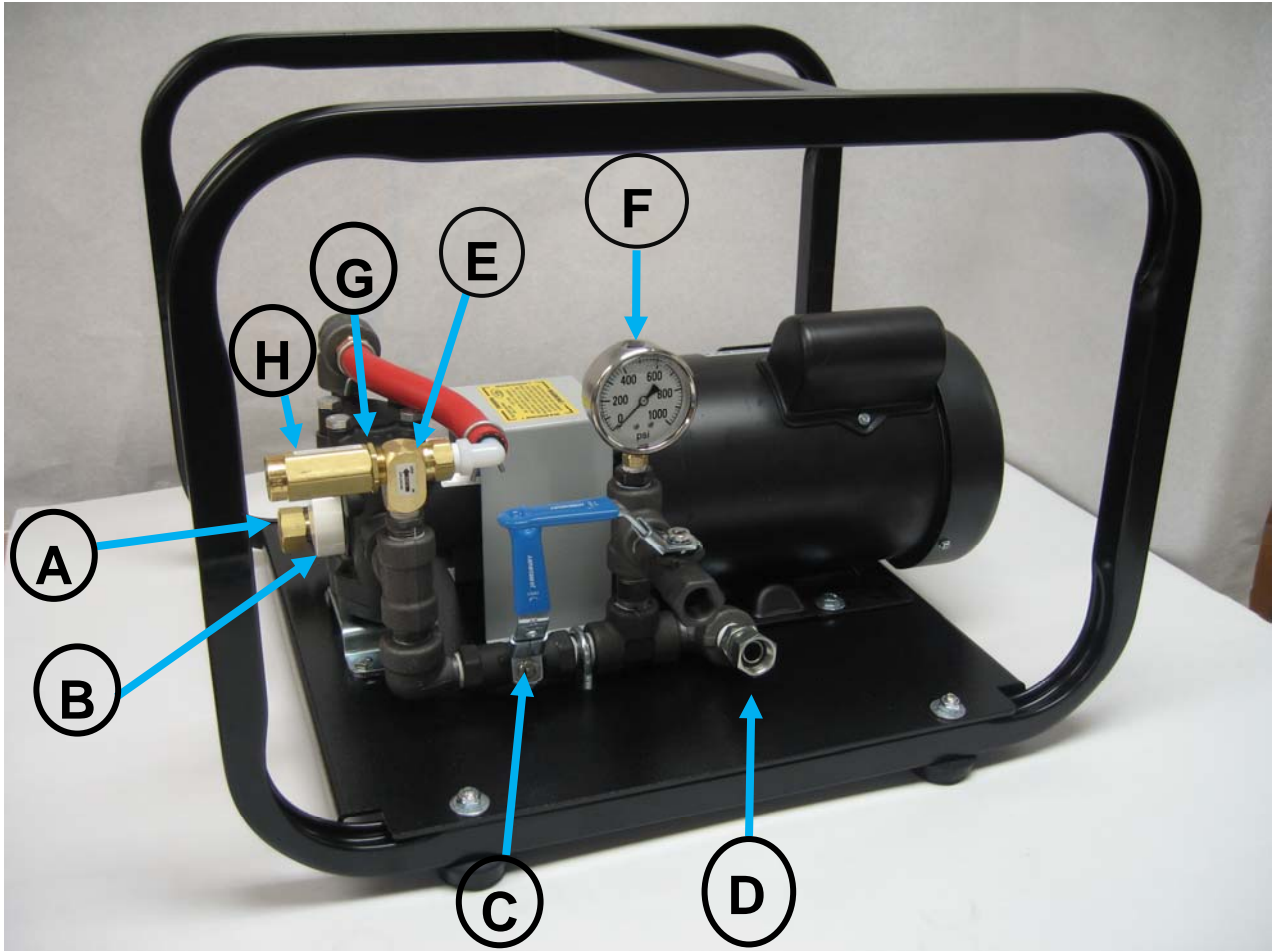
Pre-Setting Your Pump

Your pump can be pre-set to a specific pressure easily by adjusting the pressure relief valve.

1. Loosen the jam nut (G) on pressure relief valve. Then unscrew (counterclockwise direction) the pressure relief valve knob (H) a few turns . Be sure not to unscrew the knob too far as the knob and nut can easily be lost.
2. Add a ball valve (not supplied with pump) to the end of the high pressure hose.
3. Follow steps 2 through 4 from the 'Pressure Feed Method'.
4. As water is flowing out of the high pressure hose, turn the ball valve to the off position.
5. Slowly start turning pressure relief valve knob (H) in the clockwise direction by $\frac{1}{4}$ turn increments, until you reach the desired pressure. Tighten jam nut (G) to hold at this desired pressure.
6. Your test pump is now pre-set. This eliminates over-pressurizing the water line (or the vessel).



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A	Garden Hose Inlet
B	Pump Cap (plastic cap)
C	Isolation Valve
D	High Pressure Hose Connection
E	Pressure Relief Valve
F	Gauge
G	Jam Nut
H	Relief Valve Knob



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Troubleshooting Your Pump

Test pressure not being reached:

- Possible air in line (or vessel)
 - ◇ Air needs to be purged from system.
 - ◇ If using the Siphon Method and not getting pressure, try the 'Pressure Feed' or 'Gravity Feed Method' to ensure water is getting into the pump.
 - ◇ Check strainer O-Ring for cracks (located inside garden hose inlet (A)).
- Pressure relief valve not adjusted properly.
 - ◇ Turn relief valve counterclockwise and watch for change in pressure.
 - ◇ Remove pump from system and follow steps 1 thru 6 of the "Pre-Setting Your Pump" section.

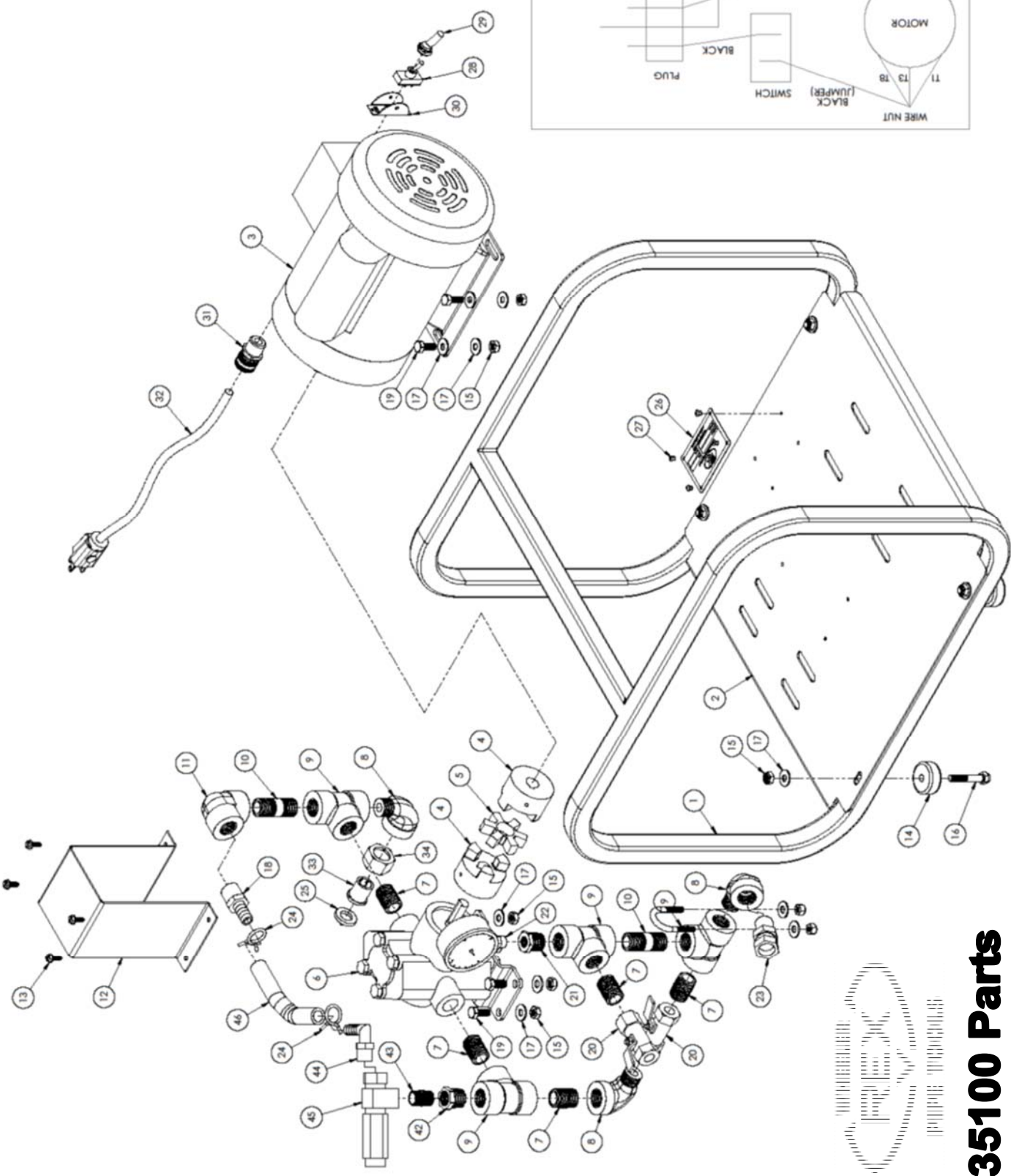
Pump Maintenance

- Pump 50/50 antifreeze/water solution through pump after each use to lubricate internal parts of pump and to avoid freezing in cold weather.
- Lubricate piston and bearing with moly lithium grease after every 50 hours of use. Remove white cap (B) from pump to access grease fitting.
- Pump repair Kit Wheeler Rex PN 36361
- Suction Hose Wheeler Rex PN 34550

CAUTION !!!

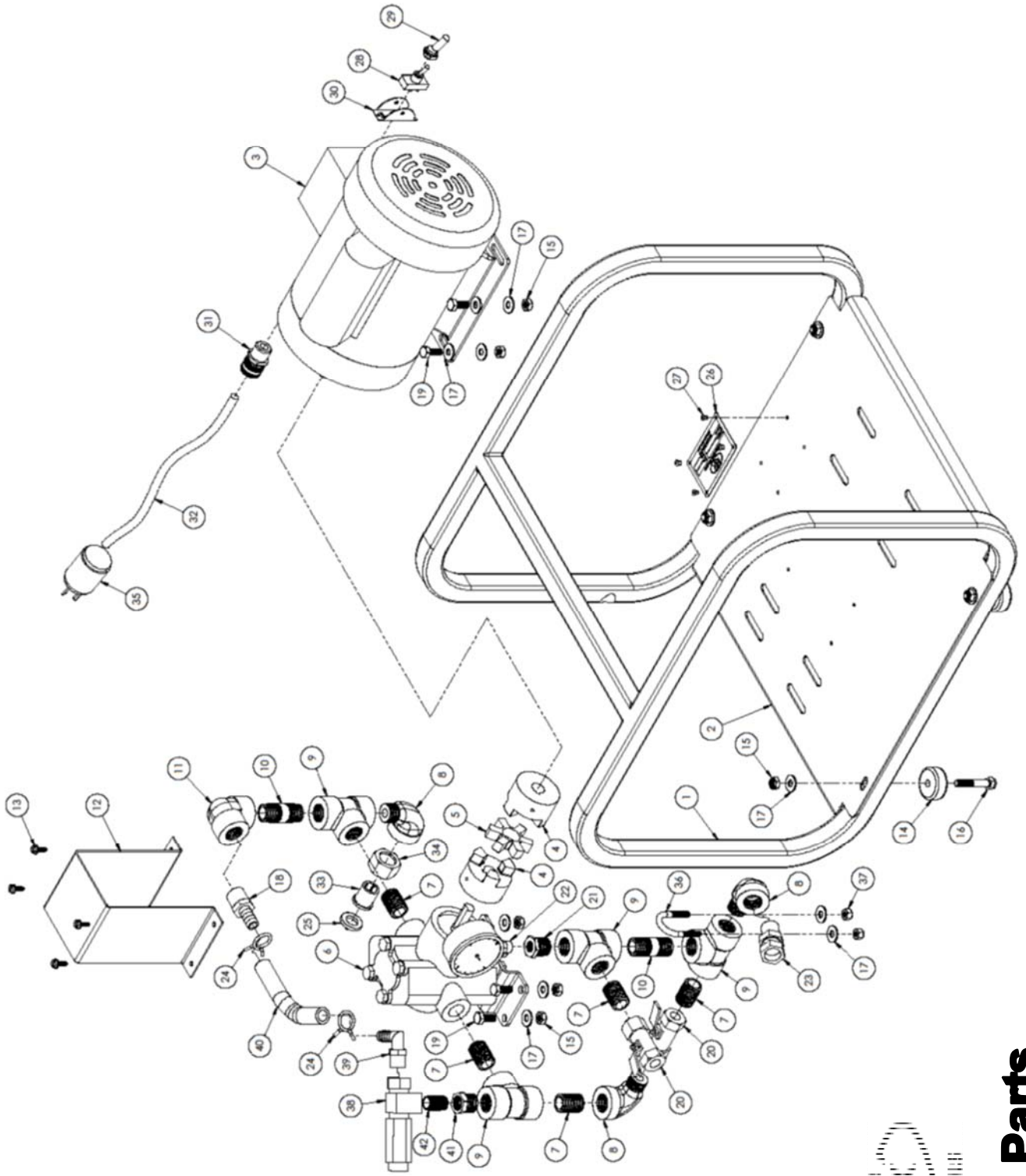
This pump is designed for water only!!

The pump is equipped with an adjustable pressure relief valve (E), which helps protect the system from being over pressurized. It can be preset by plugging the end of the hose. Turn the adjusting knob clockwise to increase pressure and counterclockwise to decrease.



35100 Parts

Item	Part No	Description	Qty
1	700800	SMALL PUMP CAGE	1
2	700797	BASE PLATE	1
3	276351	MOTOR	1
4	36353	5/8" LOVE-JOY COUPLING HALF	2
5	36334	CENTER DISK	1
6	276337	PISTON PUMP	1
7	275669	1/2 x CLOSE PIPE NIPPLE	5
8	275666	1/2" FS SCR D STREET ELL	3
9	275667	1/2" 2000LB FS SCR D TEE	4
10	275633	1/2 X 2" XH PIPE NIPPLE	2
11	275697	1/2" 3000LB FS SCR D 90 ELL	1
12	221306	COUPLING GUARD	1
13	275427	#10-24 x 5/8" SLTD HX WSHR HD, TYPE F	4
14	276443	RUBBER FOOT	4
15	275857	5/16-18 HEX NYLON-INSERT LOCKNUTS	12
16	275639	5/16-18 x 1 3/4" HHCS	4
17	275685	5/16" FLAT WASHER	18
18	275496	1/2" HOSE BARB	1
19	166	5/16-18 x 3/4 HEX HEAD CAP SCREW	8
20	275675	1/2" VALVE	2
21	275670	1/2 x 1/4 FS SCR D HX BUSH	1
22	275788	GAGE 0-1000 PSI	1
23	275689	1/2 NPT x 1/2 SWIVEL ADAPTER	1
24	276185	HOSE CLAMP	2
25	275917	STRAINER	1
26	220874	NAME PLATE	1
27	275543	POP RIVET, STAR 4-2AAD	4
28	276143	SWITCH	1
29	276363	SWITCH BOOT	1
30	276362	SWITCH GUARD	1
31	275716	CORD CONNECTOR	1
32	221389	CORD SET	1
33	275918	SWIVEL ADAPTER	1
34	275925	SWIVEL NUT	1
35	221389	SEALING LOCK NUT ***NOT SHOWN***	1
36	220577	HIGH PRESSURE HOSE ***NOT SHOWN***	1
37	276601	WIRE NUT ***NOT SHOWN***	2
38	275782	RING TERMINAL ***NOT SHOWN***	1
39	275471	RING TERMINAL ***NOT SHOWN***	1
40	277262	U-BOLT - 1/4" x 1" x 1 3/4"	1
41	275426	1/4-20 ESNA STOP NUT	2
42	276795	1/2 X 3/8 BUSHING	1
43	276797	3/8 XH CLOSE NIPPLE	1
44	276186	3/8 NPTx 1/2 90 deg. HOSE BARB	1
45	276144	RELIEF VALVE	1
46	700343	BYPASS HOSE	1



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1	700800	SMALL PUMP CAGE	1
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4	36353	5/8" LOVE-JOY COUPLING HALF	2
5	36334	CENTER DISK	1
6	276337	PISTON PUMP	1
7	275669	1/2 x CLOSE PIPE NIPPLE	5
8	275666	1/2" FS SCR D STREET ELL	3
9	275667	1/2" 2000LB FS SCR D TEE	4
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27	275543	POP RIVET, STAR 4-2AAD	4
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29	276363	SWITCH BOOT	1
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32	221389	CORD SET	1
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34	275925	SWIVEL NUT	1
35	275661	PLUG, 220V	1
36	277262	U-BOLT - 1/4" x 1" x 1 3/4"	1
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42	276797	3/8 XH CLOSE NIPPLE	1



WHEELER-REX LIMITED LIFETIME WARRANTY

WHEELER-REX covers its products with a Limited Lifetime Warranty, with exception of pipe threading machines which have a Limited Three Year Warranty (including electric motors). Warranties from manufacturers of components used in our products may pre-empt the Wheeler-Rex warranty. Wheeler-Rex warranties against defects in material or workmanship. To take advantage of this warranty, the complete product must be delivered prepaid to Wheeler-Rex or any WHEELER-REX AUTHORIZED SERVICE CENTER. No tools are to be returned to the factory without receiving prior authorization. Obviously, failures due to misuse, abuse, or normal wear and tear are not covered by this warranty. **NO OTHER WARRANTY, WRITTEN, OR ORAL, APPLIES. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.** No employee, agent, dealer, or other person is authorized to give any warranty on behalf of Wheeler-Rex. Warranted products will be repaired or replaced at our option, at no charge and returned to you via prepaid transportation. Such replacement or repair is the exclusive remedy available from Wheeler-Rex. Wheeler-Rex is not liable for damage of any sort, including incidental and consequential damages. Some U.S.A. states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Form # 1031

WARNING

GENERAL TOOL OPERATION WARNINGS

FOR ALL TOOLS-

1. **Keep Guards in Place** and in working order.
2. **Remove Adjusting Keys and Wrenches** from tool before turning it on.
3. **Keep Work Area Clean.** Cluttered areas and benches invite accidents.
4. **Avoid Dangerous Environment.** Don't use power tools in damp or wet locations. Keep work area well lit. Don't expose power tools to rain.
5. **If you must use an electric tool** in a damp or wet location; make sure it is plugged into a circuit which is protected by a ground fault interrupt.
6. **Keep Children Away. ALL VISITORS SHOULD BE KEPT A SAFE DISTANCE FROM WORK AREA.**
7. **Store Idle Tools** in dry, high, or locked-up place out of reach of children.
8. **Don't Force Tool.** It will do a better and safer job at the rate for which it is designed.
9. **Use Right Tool.** Don't force a small tool or attachment to do the job of a heavy-duty tool.
10. **Wear Proper Apparel.** No loose clothing or jewelry to get caught in moving parts. Rubber gloves and footwear are recommended when working outdoors.
11. **Use Safety Glasses.**
12. **Don't Abuse Cord.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
13. **Secure Work.** Use clamps or vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.
14. **Don't Overreach.** Keep proper footing and balance at all times.
15. **Maintain Tools Properly.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories. Equipment operators must have proper maintenance & instruction sheets. Be sure the tool operator reads and understands this information. If you don't have current maintenance and instruction sheets, contact the factory & we will supply them at no charge.
16. **Disconnect Tools** when not in use; before servicing; when changing accessories such as dies, cutters, etc.
17. **Avoid Accidental Starting.** Don't carry plugged-in tool with finger on switch. Be sure switch is off when plugging in.
18. **Outdoor Use Extension Cords.** When tool is used outdoors, use only extension cords suitable for use outdoors and so marked.
19. **Wear Ear Protection** if exposed to long periods of very noisy shop operations.
20. **Do not operate tools** while under the influence of alcohol, drugs or medication.



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