



**46301
Hydrostatic
Test Pumps**



WHEELEREX 46301 Hydrostatic Test Pumps Instruction Manual

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WHEELEREX 46301 Hydrostatic Test Pumps



FAQs

Q: How do I maintain my pump?

A: Flush a 50/50 antifreeze/water solution through the pump after each use to lubricate internal parts and prevent freezing in cold weather. Check strainer O-Ring for cracks before every use. Regularly inspect and change engine oil following manufacturer's recommendations.

Q: What gear oil should I use for gear reduction?

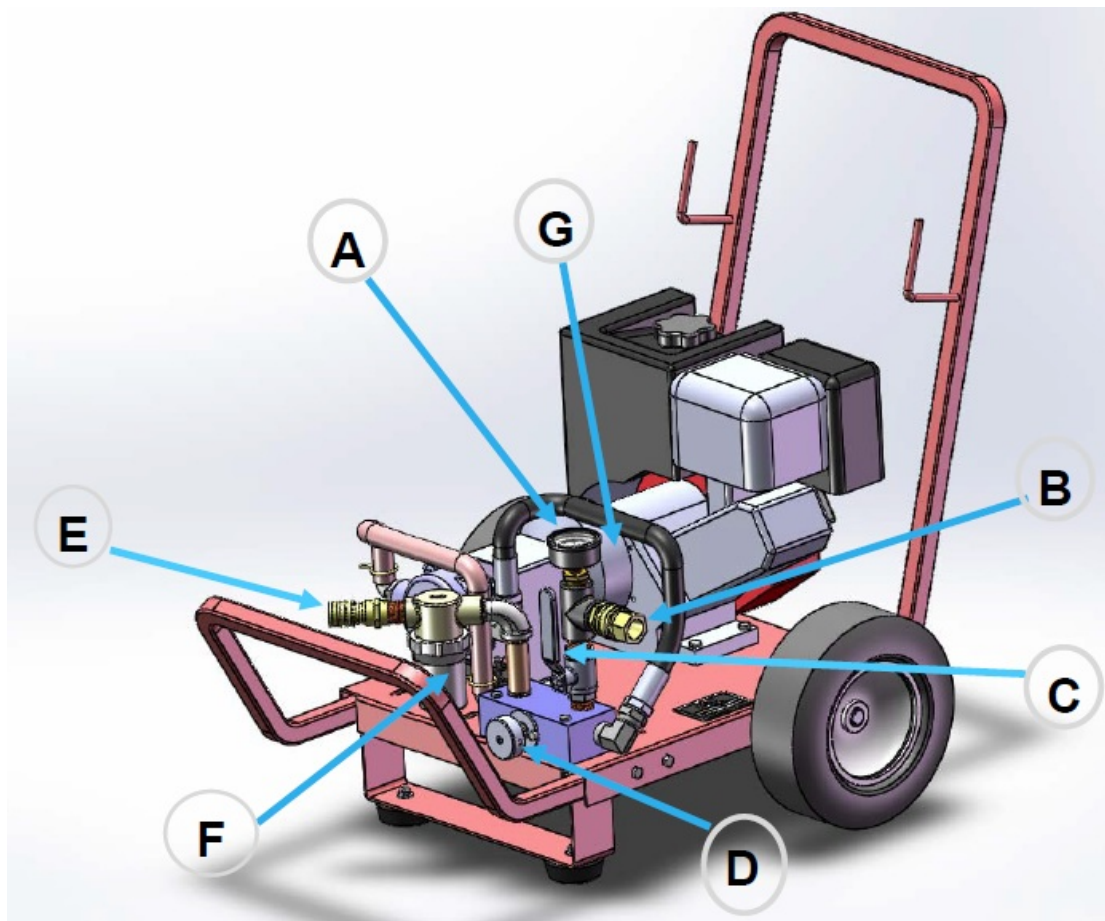
A: Use SAE 80w90 GL-5 Gear Oil and change it according to engine manual specifications.

SPECIFICATION

46301	
DIMENSIONS:	27" (67.5cm) L x 22" (55cm) W x 34" (85cm) H
WEIGHT:	132 lbs., 60 kg
PUMP:	<p>Roller: Variable Displacement Inlet and outlet ports: 3/4"</p> <p>Capacity: 11.4 – 5.4gpm, 43 – 20.5 ltr/min Max Pressure: 300psi (20.5 bar)</p> <p>Operating Speed: 600rpm</p> <p>Operating Temp.: 140 degrees F max Lubrication: Factory lubed sealed bearings</p> <p>Shaft Size: 5/8"</p>
CONTROL:	Adjustable pressure relief valve
ENGINE:	6.5hp Briggs & Stratton Intek Pro, 4 cycles, gasoline-powered, with 6 – 1 gear reduction
GAUGE:	Glycerin filled, 0 – 600psi, 0 – 42 kg/cm, bottom mount
DISCHARGE HOSE:	3/4" x 10' (3m), rated 1000psi (68 bar) working pressure
INTAKE HOSE:	

463010	
DIMENSIONS:	27" (67.5cm) L x 22" (55cm) W x 34" (85cm) H
WEIGHT:	132 lbs., 60 kg
PUMP:	<p>Roller: Variable Displacement Inlet and outlet ports: 3/4"</p> <p>Capacity: 11.4 – 5.4gpm, 43 – 20.5 ltr/min Max Pressure: 300psi (20.5 bar)</p> <p>Operating Speed: 600rpm</p> <p>Operating Temp.: 140 degrees F max Lubrication: Factory lubed sealed bearings</p> <p>Shaft Size: 5/8"</p>
CONTROL:	Adjustable pressure relief valve
ENGINE:	5.5hp Honda, 4 cycle, gasoline-powered, with 6–1 gear reduction
GAUGE:	Glycerin filled, 0 – 600psi, 0 – 42 kg/cm, bottom mount
DISCHARGE HOSE:	3/4" x 10' (3m), rated 1000psi (68 bar) working pressure
INTAKE HOSE:	3/4" x 10' (3m) with strainer

PARTS



A	Gauge
B	High-Pressure Hose Connection
C	Isolation Valve
D	Pressure Relief Knob
E	Water Inlet Connection
F	Strainer
G	Gear Deduction

Pressure Feed or Gravity Feed: (Preferred Methods)

1. Fill the water line (or test vessel) to be tested prior to the pump connection.
2. Connect the water supply hose to the garden hose inlet (E) connection on the pump.
3. Open the valve and turn the supply water on.
4. Purge the pump and pressure hose of all air.
5. Connect output (pressure) hose between pump (B) and water line (or vessel) being tested. (The water line or test vessel should be pre-filled with water before the test pump is attached.)

6. Turn the pump on.
7. Purge the water line (or vessel) of all air at the highest point of the system.
8. Bring the water line (or vessel) to pressure. Watch the gauge (A) while pumping. When the desired pressure is achieved, turn the isolation valve (C) to the “off” position. The engine 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 the pump on. Continue to run the pump until you see the water coming out of the outlet hose, 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 the Pressure Feed Method.

Pre-Setting Your Pump

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

1. Unscrew (counterclockwise direction) the pressure relief valve knob (D) until it stops. Your pump will now be at 0 (zero) psi.
2. Add a ball valve (not supplied with a 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 the pressure relief valve knob (D) in the clockwise direction by $\frac{1}{4}$ turn increments, until you reach the desired pressure. When the knob is turned in all the way, the maximum pressure is achieved (300psi).
6. Your test pump is now pre-set. This eliminates over-pressurizing the water line (or the vessel).

Troubleshooting Your Pump

Test pressure not being reached:

- Possible air in line (or vessel)
 - Air needs to be purged from the system.
 - Remove pump from the system and follow steps 1 through 6 of the “Pre-setting Your Pump” section.
 - 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 (F) for cracks.
 - Check the quick disconnect (E) and O-Ring for cracks.
- The pressure relief valve was not adjusted properly.

- Turn the relief valve counterclockwise and watch for a change in pressure (D).

Pump Maintenance

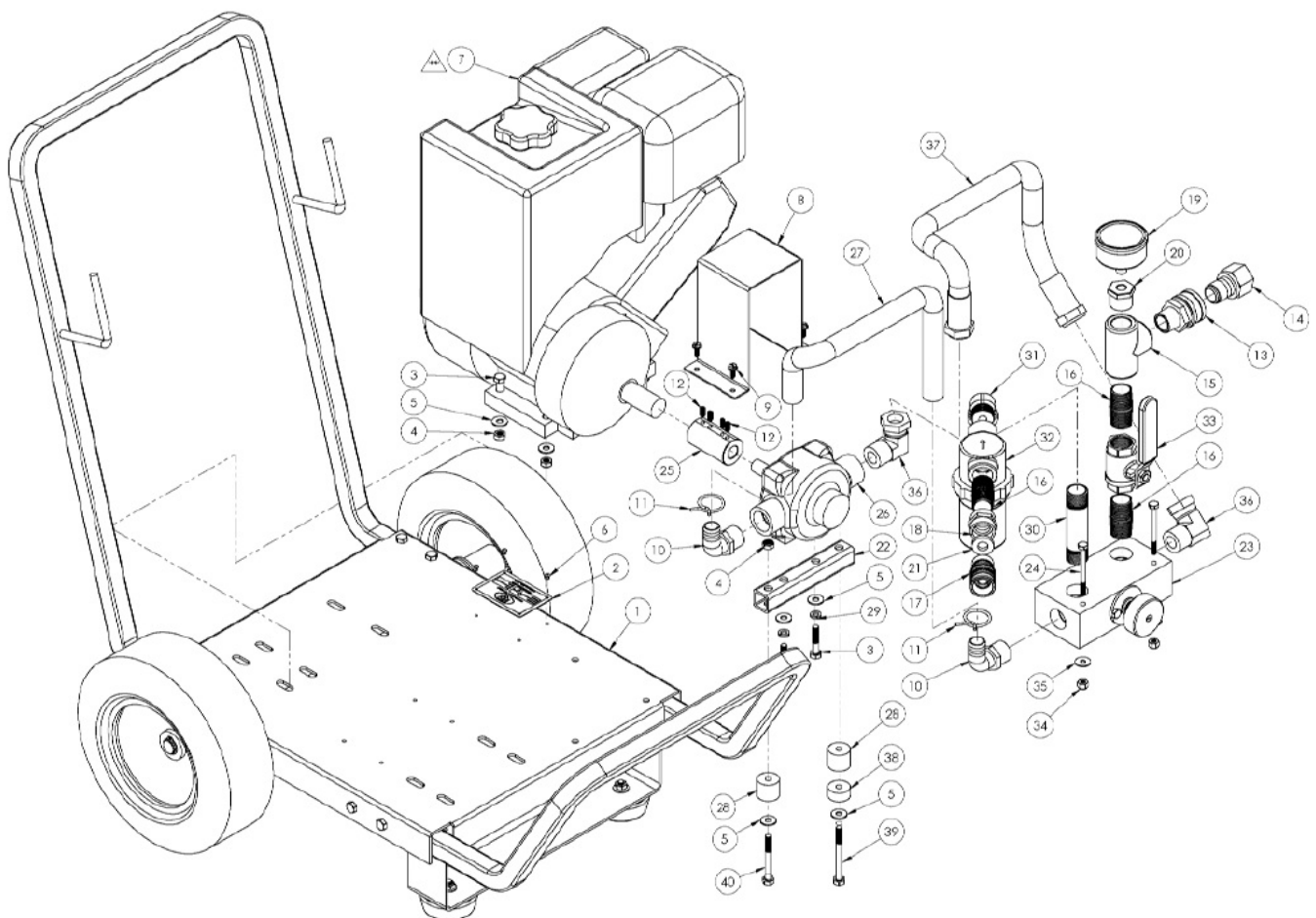
- Pump 50/50 antifreeze/water solution through the pump after each use to lubricate the internal parts of the pump and to avoid freezing in cold weather.
- Check strainer O-Ring (F) for cracks prior to each use.
- Check and change engine oil per manufacturer specifications.
- Gear reduction SAE 80w90 GL-5 Gear Oil. Change per engine manual specifications.
- Pump repair Kit Wheeler Rex PN 36352
- 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

OVERVIEW



Item	Part No	Description	Qty
1	700136	PUMP CART	1
2	220874	NAME PLATE	1
3	275638	5/16 X 1-1/2" HEX HEAD CAP SCREW	6
4	275857	5/16-18 HEX NYLON INSERT LOCKNUT	6
5	275685	5/16" FLAT WASHER	8
6	275543	POP RIVET, STAR 4-2AAD	4
7	36326	6.5HP BIRGGS & STRATTON ENGINE	1
8	221306	COUPLING GUARD	1
9	275427	#10-24 X 5/8" SLTD HX WSHR HD, TYPE F	4
10	276116	3/4 MP X 3/4 MH 90 DEG HOSE BARB	2
11	276105	HOSE CLAMP, 1-1/8" OD RC HC-18S	2
12	276118	1/4-20 X 1/2" FULL DOG SET SCREW	4
13	276100	PH QD FEM HLF BST-6M	1
14	276101	PH QD MALE HALF BST N6	1
15	275644	3/4" TEE	1
16	276102	3/4" BRASS CLOSE NIPPLE	3
17	276099	3/4" HOSE QUICK DISCONNECT	1
18	275874	3/4" FH X 3/4" FP ADAPTER	1
19	36359	0-600psi GAUGE	1

20	276108	3/4" X 1/4" BRASS REDUCER BUSHING	1
21	275941	HOSE WASHER	1
22	700118	ROLLER PUMP BASE	1
23	700884	MANIFOLD AND UNLOADER ASSEMBLY	1
24	275451	1/4-20 X 2-3/4 HHCS	2
25	700121	ROLLER PUMP COLLAR	1
26	276724	ROLLER PUMP	1
27	700152	LOW-PRESSURE HOSE	1
28	700150	TOP SHOCK	2
29	275092	5/16 LOCK WASHER	2
30	276113	3/4" X 4" NIPPLE	1
31	275643	3/4" STREET ELBOW	1
32	275933	STRAINER ASSEMBLY	1
33	275636	3/4" BALL VALVE	1
34	272426	1/4-20 ESNA STOP NUT	2
35	276540	1/4" FLAT WASHER	2
36	276123	HYD 90 ELL 3/4 NPT X 3/4	2
37	700125	HIGH-PRESSURE HOSE	1
38	700126	SHOCK	1
39	276141	5/16" - 18 X 3" HHCS	1

40	276133	5/16-18 X 2-1/2" HHCS	1
41	222000	WARNING TAG ** NOT SHOWN **	1
42	34550	SUCTION HOSE ** NOT SHOWN **	1
43	221065	PRESSURE HOSE ** NOT SHOWN **	1

LIFETIME WARRANTY

WHEELER-REX LIMITED LIFETIME WARRANTY

WHEELER-REX covers its products with a Limited Lifetime Warranty, with the 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 war warranties against defects in material or workmanship. To take advantage of this warranty, the complete product must be livered 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 WAR- RANTY, WRITTEN, OR ORAL, APPLIES. THERE ARE NO WARRANTIES THAT 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.

GENERAL TOOL OPERATION WARNINGS FOR ALL TOOLS-

1. Keep Guards in Place and in working order.
2. Remove the Adjusting Keys and Wrenches from the tool before turning it on.
3. Keep the Work Area Clean. Cluttered areas and benches invite accidents.
4. Avoid Dangerous Environments. Don't use power tools in damp or wet locations. Keep the 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 that is protected by a ground fault interrupt.
6. Keep Children Away. ALL VISITORS SHOULD BE KEPT AT A SAFE DISTANCE FROM THE WORK AREA.
7. Store Idle Tools in a 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 the 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 the tool by cord or yank it to disconnect it from the 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

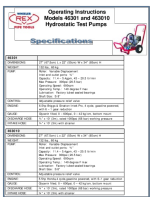
hands to operate the tool.

14. Don't Overreach. Keep proper footing and balance at all times.
15. Maintain Tools Properly. Keep tools sharp and clean for the 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; and when changing accessories such as dies, cutters, etc.
17. Avoid Accidental Starting. Don't carry a plugged-in tool with a finger on the switch. Be sure the switch is off when plugging in.
18. Outdoor Use Extension Cords. When the 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.

CONTACT INFORMATION

- Wheeler Rex • 3744 Jefferson Road • Ashtabula, Ohio 44005
- Tel: [800-321-7950](tel:800-321-7950) or [440-998-2788](tel:440-998-2788) • Fax: [440-992-2925](tel:440-992-2925)
- wheeler@wheelerrex.com • www.wheelerrex.com

Documents / Resources

	<p>WHEELEREX 46301 Hydrostatic Test Pumps [pdf] Instruction Manual 46301, 463010, 46301 Hydro Static Test Pumps, 46301, Hydro Static Test Pumps, Static Test Pumps, Test Pumps, Pumps</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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