



Operating Instructions

Models 46521, 465210, 46523, 465230

Hydrostatic Test Pumps

46523	
DIMENSIONS:	23" (57cm) L x 20" (51cm) W x 19.5" (50cm) H
WEIGHT:	105 lbs. 48 kg
PUMP:	Triple Diaphragm: Positive Displacement Ports: 3/4" inlet ; 1/2" NPT outlet Capacity: 10gpm, 38lpm Pressure: 0-500psi Operating Speed: 550rpm (max) 400rpm (min) Lubrication: Pump 30W Non-Detergent Gear 80/90W Gear Oil Shaft Size: 1" Female
ENGINE:	6.5hp Briggs & Stratton Intek Pro, 4 cycle, gasoline
CONTROL:	50 – 500psi adjustable pressure relief valve
GAUGE:	Glycerin filled, 0 – 1000psi, 0-69bar
DISCHARGE HOSE:	1/2" x 10' (3m) 2000psi rated
INLET HOSE:	3/4" x 10' (3m) with strainer



465230	
DIMENSIONS:	23" (57cm) L x 20" (51cm) W x 19.5" (50cm) H
WEIGHT:	105 lbs. 48 kg
PUMP:	Triple Diaphragm: Positive Displacement Ports: 3/4" inlet ; 1/2" NPT outlet Capacity: 10gpm, 38lpm Pressure: 0-500psi Operating Speed: 550rpm (max) 400rpm (min) Lubrication: Pump 30W Non-Detergent Gear 80/90W Gear Oil Shaft Size: 1" Female
ENGINE:	Honda 5.5hp, 4 cycle, gasoline
CONTROL:	50 – 500psi adjustable pressure relief
GAUGE:	Glycerin filled, 0 – 1000psi, 0-69bar
DISCHARGE HOSE:	1/2" x 10' (3m) 2000psi rated
INLET HOSE:	3/4" x 10' (3m) with strainer



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46521	
DIMENSIONS:	28" (71cm) L x 20" (51cm) W x 19.5" (49.5cm) H
WEIGHT:	111 lbs. 50.5 kg
PUMP:	Triple Diaphragm: Positive Displacement Ports: 1" inlet ; ¾" NPT outlet Capacity: 10gpm, 38lpm Pressure: 0-500psi Operating Speed: 550rpm Lubrication: Pump 30W Non-detergent Gear 80/90W Gear Oil Shaft Size: 1" Female
ENGINE:	6.5hp Briggs & Stratton Intek Pro, 4 cycle, gasoline
CONTROL:	0 – 500psi adjustable pressure relief valve
GAUGE:	Glycerin filled, 0 – 600psi, 0-42kg
DISCHARGE HOSE:	¾" x 10' (3m) 1000psi rated
INLET HOSE:	¾" x 10' (3m) with strainer



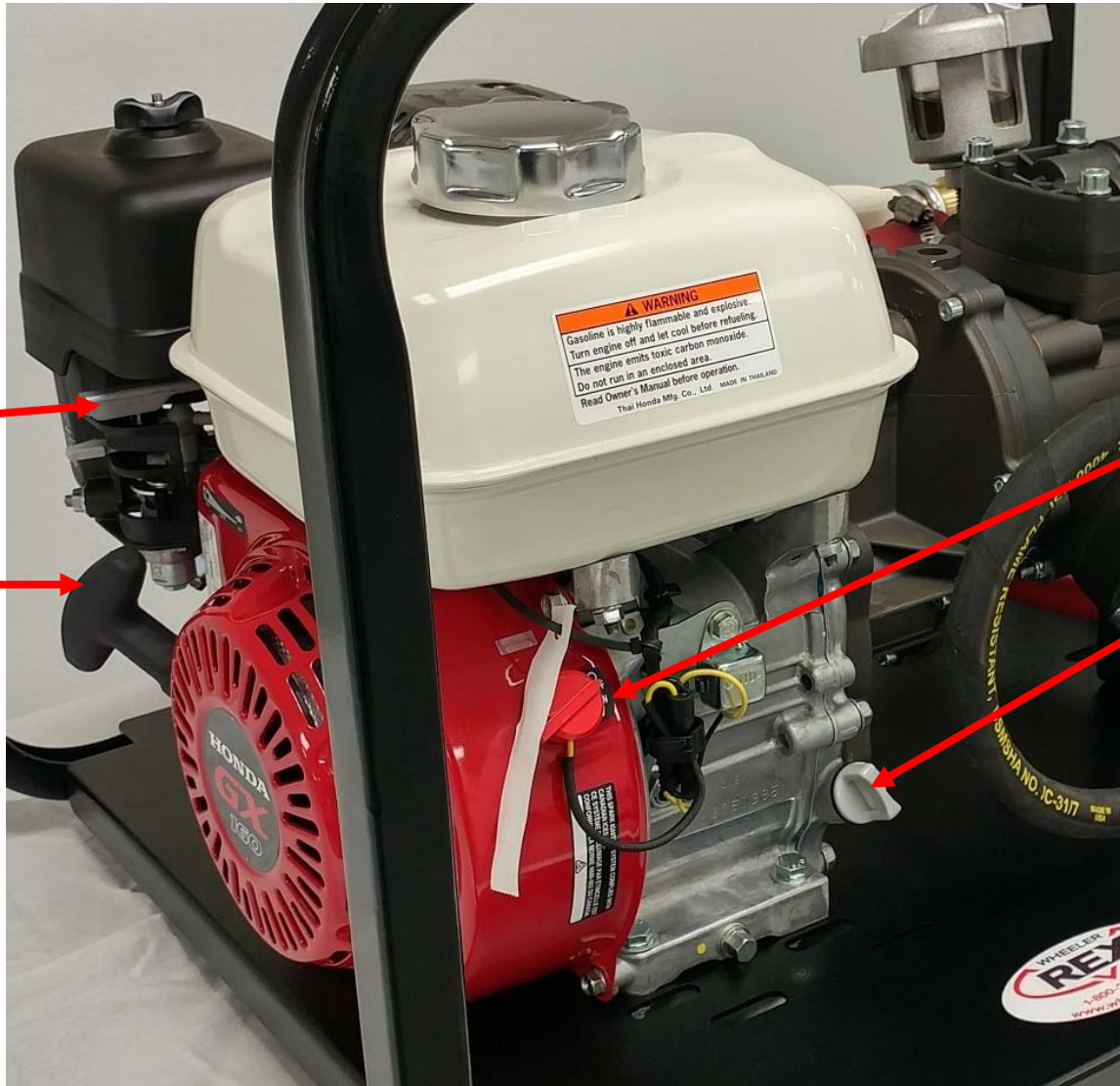
465210	
DIMENSIONS:	28" (71cm) L x 24" (51cm) W x 35" (49.5cm) H
WEIGHT:	111 lbs. 50.5 kg
PUMP:	Triple Diaphragm: Positive Displacement Ports: 1" inlet ; ¾" NPT outlet Capacity: 10gpm, 38lpm Pressure: 0-500psi Operating Speed: 550rpm Lubrication: Pump 30W Non-detergent Gear 80/90W Gear Oil Shaft Size: 1" Female
ENGINE:	Honda 5.5hp, 4 cycle, gasoline
CONTROL:	0 – 500psi adjustable pressure relief
GAUGE:	Glycerin filled, 0 – 600psi, 0-42kg
DISCHARGE HOSE:	¾" x 10' (3m) 1000psi rated
INLET HOSE:	¾" x 10' (3m) with strainer



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465210 / 465230

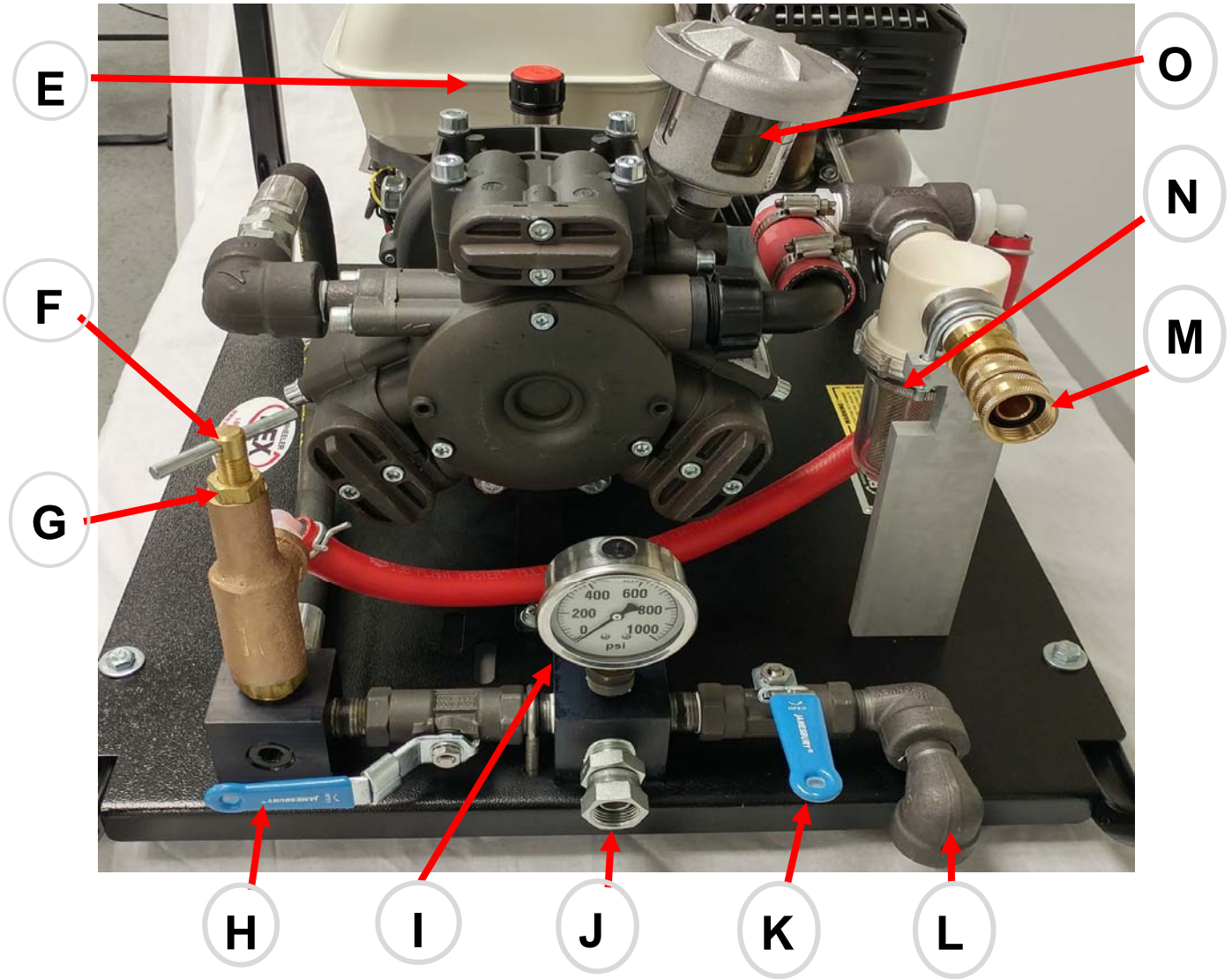
A	Engine Controls (throttle, choke, gas ON/OFF)
B	Pull Start
C	Power Switch ON/OFF
D	Dipstick / Engine oil fill



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E	Pump gear lube vent cap / fill	L	Dump port
F	Relief valve adjustment	M	Inlet connection
G	Relief valve jam nut	N	Strainer bowl
H	Isolation valve	O	Pump diaphragm oil reservoir
I	Gauge		
J	Outlet connection		
K	Dump Valve		



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Gravity Feed: (Preferred Method)

This method requires a tank with a water outlet at the bottom. The water tank's outlet should be level with or above the level of the water inlet connection on the pump. This allows water to flow naturally into the test pump. Connecting a pressure fed water line is harmful to the diaphragms in the pump.

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 connection (M) on the pump.
3. Open valve and turn water supply on.
4. Purge the pump and pressure hose of all air.
5. Connect output (pressure) hose connection (J) between pump 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 (I) while pumping. When the desired pressure is achieved, turn the isolation valve (H) 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 with water, then quickly place the hose into a bucket and turn pump on. (Unit is self-priming once primed). Continue to run 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 Gravity 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 (F) 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 'Gravity 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 (F) 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).

WARNING



This product can expose you to chemicals lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



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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.
 - ◊ Remove pump from 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 "Gravity Feed Method" to ensure water is getting into the pump.
 - ◊ Check strainer (F) O-Ring for cracks.
- Oil Reservoir is milky in color
 - ◊ Diaphragm is cracked, causing water to mix with oil. Diaphragm needs replaced.
- Pressure relief valve not adjusted properly.
 - ◊ Turn relief valve counterclockwise and watch gauge (C) for change in pressure.

Pump Maintenance

- Pump 50/50 antifreeze/water solution through pump after each use to avoid freezing and to lubricate pump.
- Check strainer (F) O-Ring for cracks prior to each use.
- Check and change engine oil per manufacturers specifications.
- Gear reduction Gear Lube. Check and change per manufacturers specifications.
- Pump repair kit (Wheeler Rex PN 36345)
- Suction Hose (Wheeler Rex PN 34550)
- Pump Oil Reservoir - Check and change per manufacturers specs. Use 30W Non-detergent oil

Dump Valve

Dump valve is designed to dump off pressure when the test is complete..

CAUTION !!!
This pump is designed for water only!!

The pump is equipped with an adjustable pressure relief valve (A), 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.

Notes.....



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