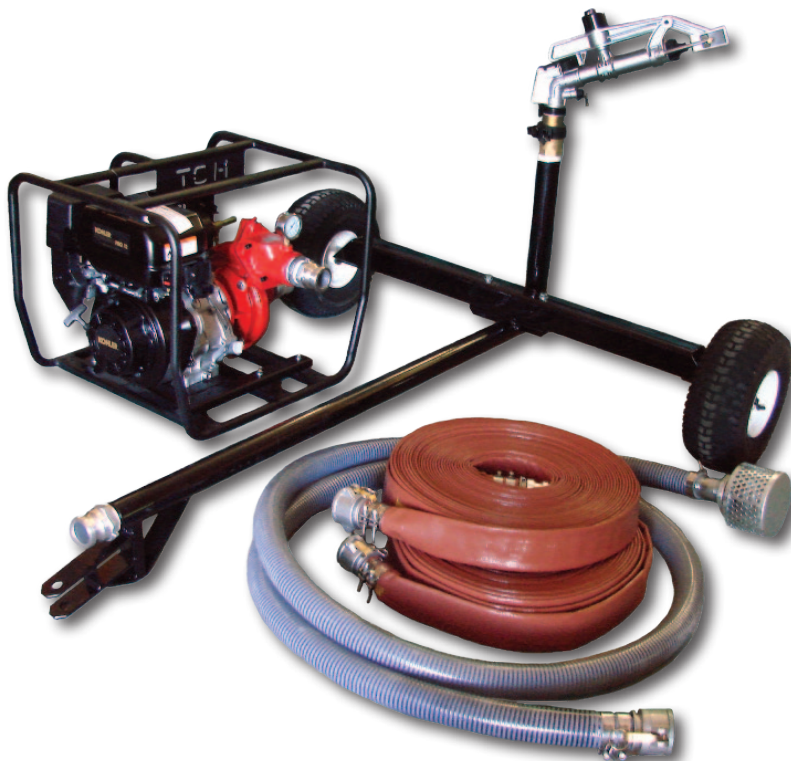


2000 Complete Irrigation Pump Kit



Thank you for purchasing a new BigSprinkler irrigation kit. This kit is a quick and easy solution for irrigating larger areas such as gardens, yards, playgrounds, sports fields, horse arenas, acreages, and much more!

The following manual is a guide for assembly, setup, and operation of your new BigSprinkler cart and pump. Please read and follow all instructions carefully.

BIG sprinkler carts



BIG sprinkler.com

15250 W. Sunshine Road • Yukon, OK 73099 • 1-855-805-7901

Kit Contents



1 - 14 Kohler High Pressure Pump

1 - 2000S Wheeled Sprinkler Irrigation Cart

2 - 100 Ft. Discharge Hose (red)

1 - 15 Ft. Suction Hose Assembly w/ Screen (Clear w/ Grey Helix)

1 - ATV Hitch

1 - Diaphragm Primer

Cart Assembly Instructions

Please read this manual carefully and follow all safety and assembly instructions below to ensure that your cart is assembled correctly and operates properly upon start-up. If you have any questions please call 805-855-7901.



Safety



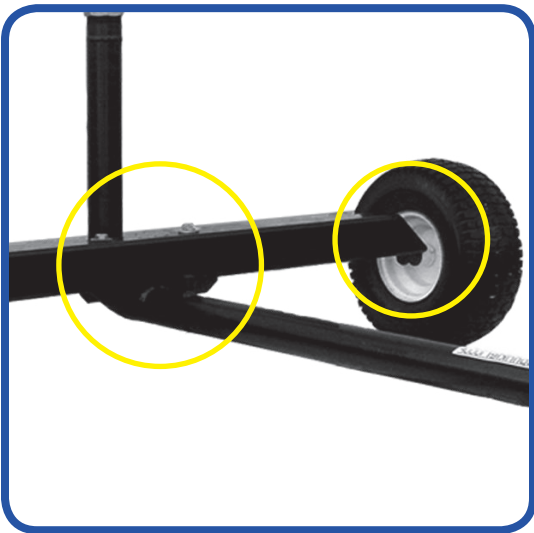
Safety is the main priority and failure to follow these instructions may cause serious injury. BigSprinkler.com is not responsible for product failure, property damage, or personal injury if these procedures and operation instructions are not followed.

- **Beware of electric power lines**

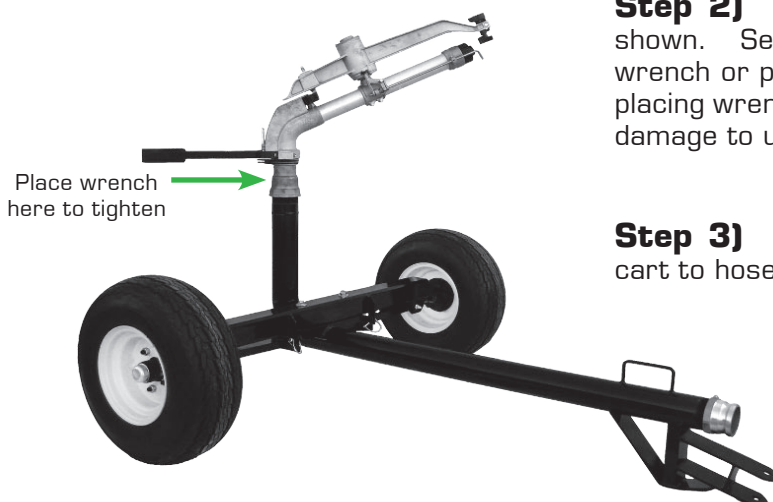
Irrigation water should never contact electric power lines or any other power source. Never let any part of the sprinkler cart or any irrigation fittings or pipe come in contact with an electric power source.

- **Use caution up close to operating sprinkler heads**

Pressurized water from the sprinkler head could cause serious damage to people or objects. Never allow small children to play close to operating sprinkler heads!



Step 1) The sprinkler cart is shipped with three main components: axle assembly with wheels, cart body, and sprinkler head. First, assemble axle assembly to main body (left image) with the two bolts and locking nuts included in axle assembly. These are shipped installed in the axle assembly. Remove the bolts and attach the sprinkler body as shown in the large circle at the left. **NOTE: Cart body mount plate should be mounted underneath the axle for proper cart angle.** Notice the sloped side of the axle ends should be facing upward. This is shown in the small circle in the image to the left.

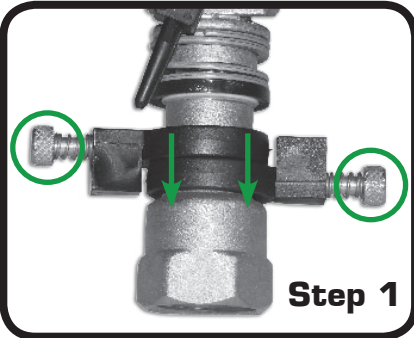


Step 2) Attach sprinkler head to the cart body (left image) as shown. Secure sprinkler head by tightening with an open end wrench or pipe wrench. **CAUTION:** Only tighten sprinkler head by placing wrench on the lower base area of the sprinkler head to avoid damage to upper portion of the sprinkler.

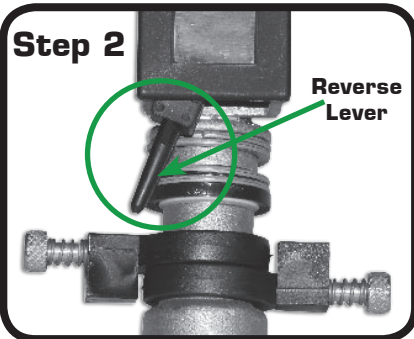
Step 3) Position sprinkler cart in area to be watered. Attach cart to hose. Sprinkler cart is ready for operation.

Sprinkler Head Settings

The sprinkler head supplied with your cart is a fully adjustable sprinkler that will operate in a full circle pattern or any part of a circle by adjusting the stops at the base of the sprinkler. Refer to the instructions below to set sprinkler head to the desired operating pattern.

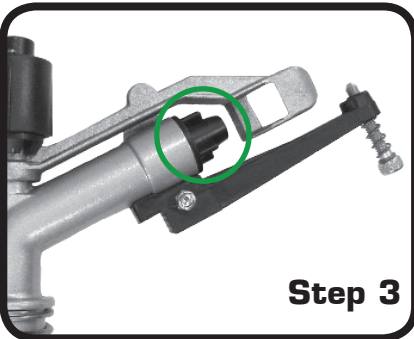


Step 1) For full circle operation, loosen sprinkler stop, set screws as shown, and slide stops all the way down the brass sprinkler base so they do not contact the reverse lever on the back of the sprinkler head. Re-tighten set screws to hold the stops in place. This will allow the sprinkler head to operate in a full circle mode.



Step 2) IMPORTANT: REVERSE VS. FORWARD MODE

If you set the sprinkler head for full circle operation, the reverse lever will either stay to the right or left for reverse or forward mode. Typically when using the sprinkler in full circle operation, you will want the sprinkler to be set in forward mode or a clockwise operating direction. For this to occur, you want the reverse lever at the back of the sprinkler to be over to the left as shown. If the lever is set to the right, the sprinkler will be in reverse mode. In reverse mode, the sprinkler will operate rapidly in a counterclockwise direction and your distance of throw will be less than it would be in forward mode.



Step 3) Nozzles Supplied: Your sprinkler head is supplied with a set of nozzles that are interchangeable to meet your water source's capability. It is shipped with the smallest nozzle installed. If your water system operates the small nozzle adequately then, you may move up to a larger nozzle size for increased performance. The nozzle sizes listed on your supplied performance charts have gallons per minute output that tally at various pressures and wetted patterns that correspond. This may be a trial and error exercise to determine which nozzle size gives you the best desired performance when matched to your water source's capability. You may feel more comfortable consulting your servicing well dealer for help with your system's capability if desired performance is not being met.

It may also be necessary to purchase a booster pump from our pump section of BigSprinkler.com if pressure boosting is needed.

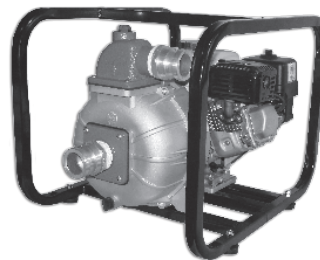
Accessories



Hose



Fittings



Supply Pumps



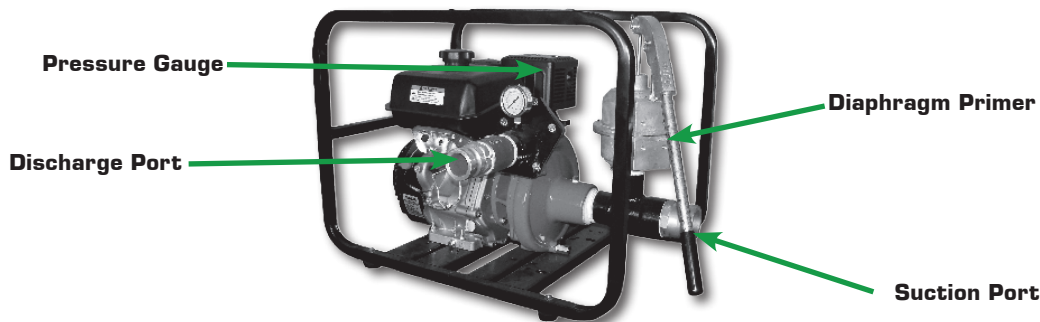
Booster Pumps

Pump Start-Up Instructions



Step 1) After contents of kit have been unpacked and assembled, unroll red discharge hose that has been supplied with your kit and make sure there are no twists in the hose and that it is laying flat on the ground. Connect the female end of the discharge hose to the pump discharge port and connect the opposite end to the sprinkler cart.

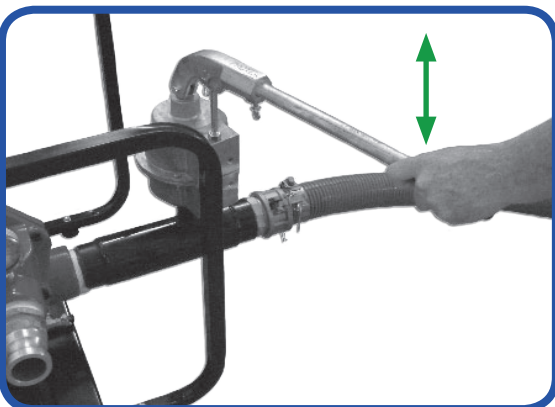
Priming The Pump



Step 1) Place the suction hose assembly screen end into the water. **NOTE: Suction screen needs to be in at least 12 inches of water to operate properly and not loose prime.** Connect the female end of the suction hose to the suction port on the pump.

If your water source has debris such as moss, leaves, etc. or has a bottom that is very sandy, you may want to float your suction screen with a small float to suspend the screen in clean water also.

Make sure pump is sitting level and within 5 to 10 feet (vertically) of the top of the water surface to ensure proper priming of the pump.



Your Kohler pump is outfitted with a diaphragm priming system as shown in the diagram above. Once the suction line is in the water, simply pump the diaphragm primer handle up and down as shown at left. This action will displace the air in the suction line and begin to fill the suction line with water. The water will be visible through the clear suction hose as it begins to fill the hose and reach the suction port of the pump. Once the water reaches the suction port, the primer will become stiff to pump indicating that the line is primed. The pump engine may then be started. Keep the pump throttle at low to medium idle until discharge lines are filled and water begins to exit the sprinkler. Throttle may then be increased to the desired pressure by reading the gauge on the discharge port.

Caution: Refer to engine manual for proper gasoline engine start up and operation procedures.

Please call BigSprinkler.com Service with any pump operation questions at 855-805-7901.

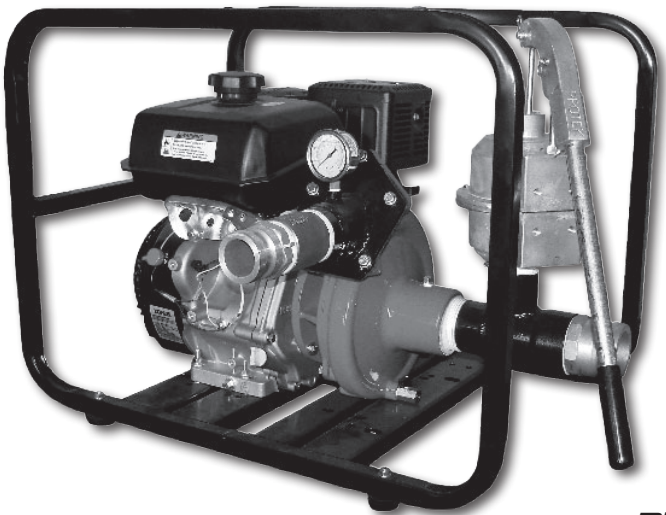
Sprinkler Cart Charts



2000S Sprinkler Cart Performance Chart

Nozzle Size	PSI	GPM	Jet Length/Feet (One Direction)	Wetted Circle (Diameter/Feet)
12 mm (0.47")	22	34.3	62	124
	29	40.2	72	144
	44	48.1	78	156
	56	55	88	176
14 mm (0.55")	29	51.5	75	150
	44	63.2	91	182
	56	73.2	101	202
	70	81.7	111	222
16 mm (0.63")	29	65.3	78	156
	44	80.1	98	196
	56	92.8	111	222
	70	103	118	236
18 mm (0.71")	29	91.7	78	156
	44	100	105	210
	56	115	115	230
	70	128	125	250
20 mm (0.78")	29	99.4	82	164
	44	121	100	200
	56	140	122	244
	70	157	135	270

Notice: These specifications are to be used as a guide only and have been calculated at zero wind conditions. Performances can vary due to pressure, terrain, wind, and field conditions.



3" High Pressure 14 HP Kohler Pump Performance Chart

PSI	120	110	104	95	85	70	60	40
GPM	5	25	50	75	100	125	150	180

Notice: These specifications are to be used as a guide only and have been calculated at zero wind conditions. Performances can vary due to pressure, terrain, wind, and field conditions.

Warranty

LIMITED WARRANTY AND REMEDY:

WARRANTY

BigSprinkler warrants to the original purchaser only of the products described in the face hereof as of the date of the original invoice, that the product is merchantable and free from defects in material and workmanship.

Warranty shall be provided by the original manufacturer of products sold on BigSprinkler for the length of time specified by the manufacturer of the given product.

Sprinkler Stands - 1 year

Pump Wet Ends - 1 year

Honda Engines - 3 year (through authorized Honda service center)

Sprinkler Heads - 1 year

REMEDY

If BigSprinkler.com determines that the above warranty was breached with respect to any part or component provided by the manufacturer of the product (and if all conditions set forth below have been satisfied) then, BigSprinkler.com will (at BigSprinkler.com's option) provide purchaser a refund of the purchase price less the freight costs to or from the customer, or provide a replacement product of the same kind.

All remedies provided herein are for goods only, no labor or freight allowance for return goods is implied.

This warranty extends only to the original purchaser of products purchased from BigSprinkler.com.

CONDITIONS TO ENFORCEABILITY AND CLAIMS:

1. Product has been maintained and operated within the guidelines outlined in the manufacturer's product guide and maintenance manual.
2. Product warranty shall be considered void if any component or function of the equipment has been altered in any form other than what has been provided or intended by the original product manufacturer.
3. Any return must be submitted on form provided by BigSprinkler.com in writing immediately and in no event longer than 20 days from occurrence. You can reach our sales department through the "contact us" form on our website should such an event occur.
4. Purchaser must return all goods within 30 days of BigSprinkler.com's authorization date, that have been determined by BigSprinkler.com to be defective to the Purchaser with Purchaser being responsible for freight.

LIMITATIONS:

BigSprinkler.com or its affiliates shall not be liable for any incidental or consequential damages (including but not limited to, damages for injury to the person, property or lost turf, crops or profits) by reason of any defect in the products sold or its manufacture, design, or function.