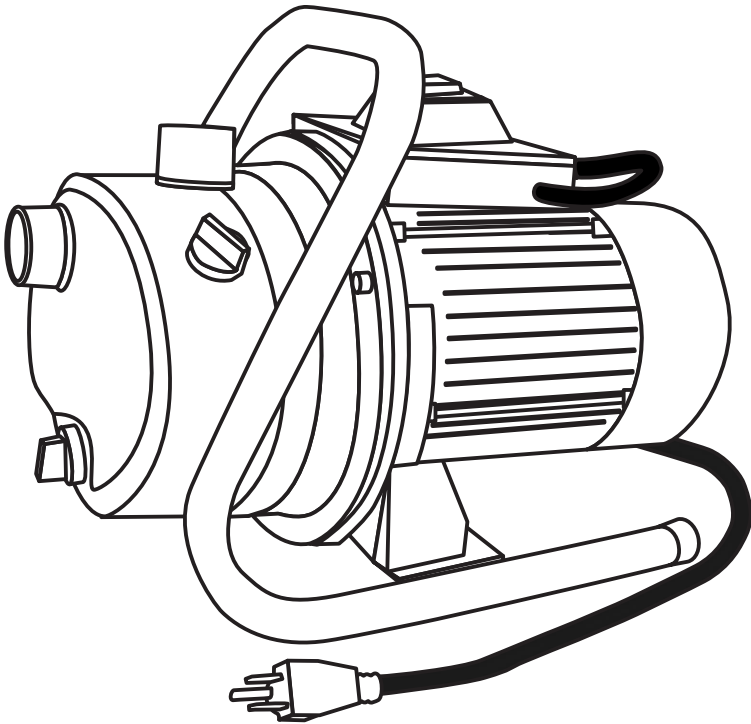


# BOOSTER UTILITY PUMP

MODEL HSPJ100

**Español p. 12**



**ATTACH YOUR RECEIPT HERE**

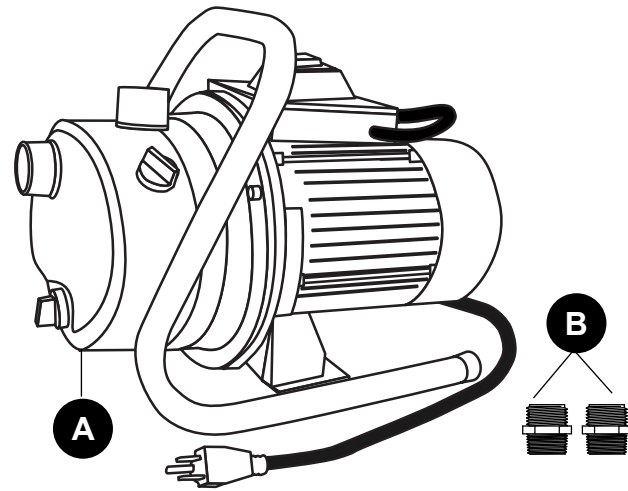
Serial Number \_\_\_\_\_ Purchase Date \_\_\_\_\_

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Questions, problems, missing parts? Before returning to your retailer, call our customer service department at 1-800-742-5044, 7:30 a.m. - 5:00 p.m., EST, Monday - Friday.

## PACKAGE CONTENTS



PART	DESCRIPTION	QUANTITY
A	Pump	1
B	Garden Hose Adapters	2

## SPECIFICATIONS

MODEL	HP	AMPS	PERFORMANCE IN GALLONS PER MINUTE			
			0 FT.	5 FT.	10 FT.	15 FT.
HSPJ100	1	6.5	13	11	7	4

Power supply required	115 Volts, 60 Hz
Maximum water temperature	104°F (40°C)
Individual branch circuit required	15 AMP minimum
Discharge connection	1 in. NPT
Inlet connection	1 in. NPT
Water depth rating	Maximum of 25 ft.

## SAFETY INFORMATION

Please read and understand this entire manual before attempting to assemble, operate, or install the product.

**NOTE:** Pumps with the “UL” Mark are tested to UL Standard UL778. CSA certified pumps are certified to CSA Standard C22.2 No. 108. (CUS.)

## DANGER

- **ELECTRICAL SHOCK HAZARD.** This pump is non-submersible. Keep the motor dry at all times. Do not wash the motor. Do not submerge the pump in water. Protect the motor from wet weather. Do not allow any part of cord or receptacle ends to sit in water or in damp locations. Failure to follow these warnings will result in death or serious injury, and/or property damage.

- **FIRE/EXPLOSION HAZARD.** Pump only clear water. Do not pump flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc. Do not use in a flammable and/or explosive atmosphere. Failure to follow these warnings could result in death or serious injury and/or property damage.
- **RISK OF ELECTRIC SHOCK.** These pumps have not been investigated for use in swimming pool areas.
- **RISK OF ELECTRIC SHOCK.** Always disconnect power source before attempting to install, service, or maintain the pump. Never handle a pump with wet hands or when standing on wet or damp surface or in water. Fatal electrical shock could occur.

## WARNING

- **ELECTRICAL SHOCK ALERT.** Before installing this product, have the electrical circuit checked by an electrician to ensure proper grounding. All electrical installations must conform to the National Electric Code and all local codes.
- **ELECTRICAL SHOCK ALERT.** Connect this product to a properly-grounded 115 volt circuit equipped with a Ground Fault Circuit Interrupter (GFCI) device.
- **ELECTRICAL SHOCK ALERT.** Do not handle pump or pump motor with wet hands or when standing on a wet or damp surface or in water.
- **ELECTRICAL SHOCK ALERT.** These pumps are supplied with a 3-prong grounded plug to help protect you against the possibility of electrical shock. **DO NOT UNDER ANY CIRCUMSTANCES REMOVE THE GROUND PIN.**
- **ELECTRICAL SHOCK ALERT.** This pump is not intended to be permanently installed outdoors. Protect pump from extreme heat, cold, and humidity. This pump is not waterproof and is not intended to be used in showers, saunas, or other potentially wet locations. The motor is designed to be used in a clean, dry location with access to an adequate supply of cooling air. Ambient temperature around the motor should not exceed 86°F (30°C).
- **ELECTRICAL SHOCK ALERT.** BE CERTAIN the pump power source is disconnected before installing or servicing pump.
- **ELECTRICAL SHOCK ALERT.** Protect electrical cord from sharp objects, hot surfaces, oil, and chemicals. Avoid kinking the cord.
- **CHEMICAL ALERT.** This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.
- **PERSONAL INJURY/PRODUCT DAMAGE ALERT.** Provide a means of pressure relief if the pump discharge can be shut off or obstructed. Pumps operating with a closed discharge can create hot liquid, which can cause burns.
- **PERSONAL INJURY ALERT.** This pump is equipped with an automatic thermal overload and can restart without warning.
- **PERSONAL INJURY ALERT.** Do not touch the motor when operating and allow the motor to cool before touching it after operation. Motor is designed to operate at high temperatures.

## CAUTION

- **PERSONAL INJURY OR PRODUCT DAMAGE MAY RESULT.**  
This pump operates on 115 volts. Make certain that the power source conforms to the requirements of your equipment.
- **PRODUCT DAMAGE MAY RESULT.**  
The maximum temperature of the pumped liquid must not exceed 86°F (30°C). The minimum allowable temperature is 40°F (4°C).
- **PRODUCT DAMAGE MAY RESULT.**  
Be sure the water source and piping are clear of sand, dirt, and scale. Debris will clog the pump and void the warranty. Use a screen or strainer on the inlet to prevent debris from entering the pump.
- **PRODUCT DAMAGE MAY RESULT.**  
Failure to protect the pump and piping from freezing will cause damage and void the warranty.
- **PRODUCT DAMAGE MAY RESULT.**  
Do not run pump dry. Impeller and seal damage will result.
- **PROPERTY DAMAGE MAY RESULT.**  
Drain all liquids from the system before servicing or storing.
- **PERSONAL INJURY AND/OR PROPERTY DAMAGE MAY RESULT.**  
Make sure the discharge hose is secure before starting the pump. A loose discharge hose can whip around and cause personal injury or property damage.
- **PROPERTY DAMAGE MAY RESULT.**  
Do not operate this product while unattended.
- **PROPERTY DAMAGE MAY RESULT.**  
Check hoses for worn areas before use and make certain that all connections are tight.
- **PRODUCT DAMAGE MAY RESULT.**  
This pump is designed to pump water only. It has not been evaluated for pumping chemicals. Check hoses for worn areas before use and make certain that all connections are tight.
- **PRODUCT DAMAGE MAY RESULT.**  
Inspect the pump regularly for damage and perform routine maintenance as needed.

## PREPARATION

Before beginning installation of product, make sure all parts are present. Compare parts with package contents list. If any part is missing or damaged, do not attempt to assemble the product.

**Estimated Installation Time:** 10 minutes

Tools may be required for assembly: Crescent wrench, PVC-safe pipe sealant or thread sealant tape.

## GENERAL PUMP INFORMATION

This pump is designed to sprinkle lawns and small gardens from lakes, ponds, or rivers, empty or fill stock tanks, remove standing water from flooded areas, transfer water or boost water pressure. Flammable liquids such as gasoline, chemicals, or corrosive liquids should never be used with this pump.

The pump is NOT designed to operate underwater.

## SETUP

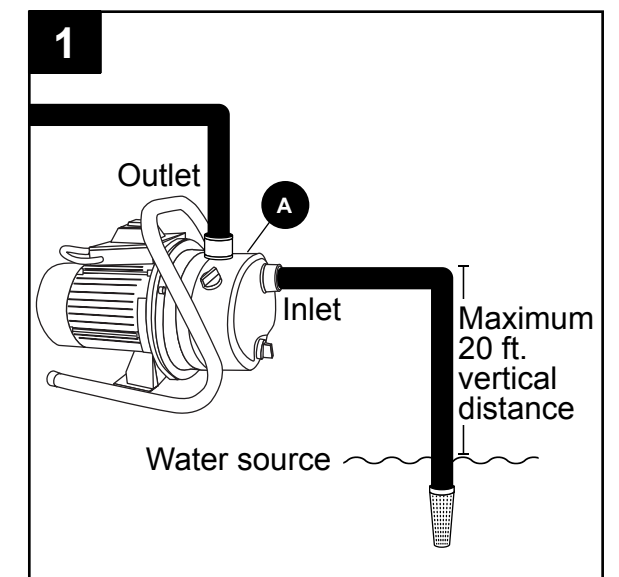
1. Before installing pump (A), have the electrical circuit checked by an electrician to ensure proper grounding.  
BE CERTAIN the pump (A) power source is disconnected before installing or servicing this unit. Be sure the water source and piping are clear of sand, dirt, and scale. Debris will clog pump (A) and void warranty.  
Failure to protect pump (A) and piping from freezing could cause severe damage and will void the warranty.  
Do not run pump (A) dry.

## INSTALLATION INSTRUCTIONS

### PUMPING FROM LAKES, PONDS, OR SMALL STREAMS

1. Set pump (A) as close as possible to the water source, keeping the vertical distance from the water to pump as short as possible and no more than 20 ft. Place pump (A) on level support. Protect against flooding and excessive moisture.

Long lengths of pipe or hose and use of many fittings will reduce the amount of water this unit will pump. Use the smallest number of fittings and shortest possible length of pipe or hose.



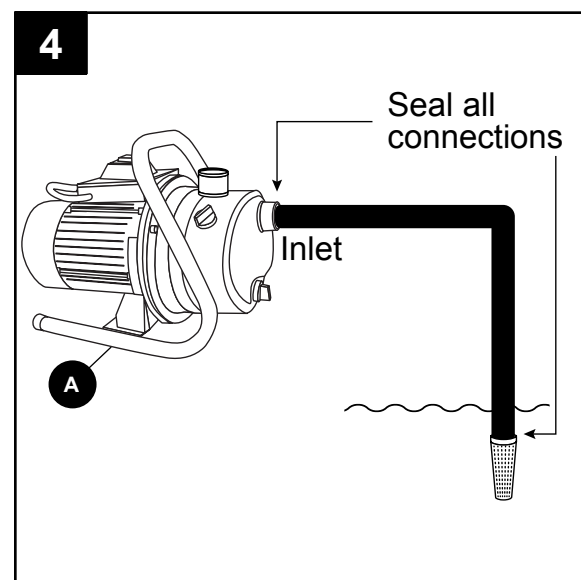
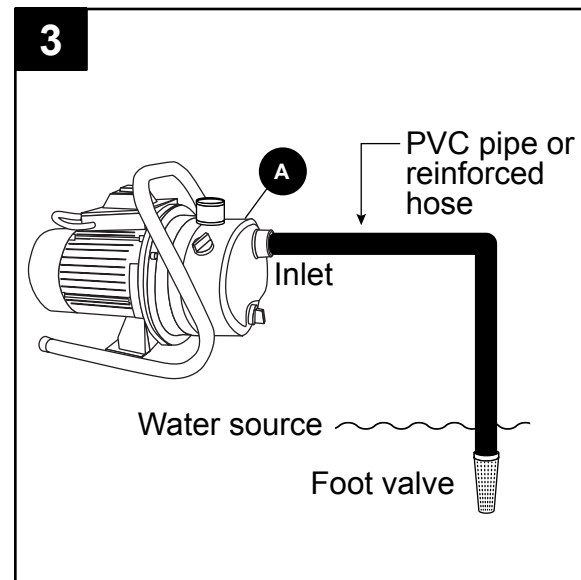
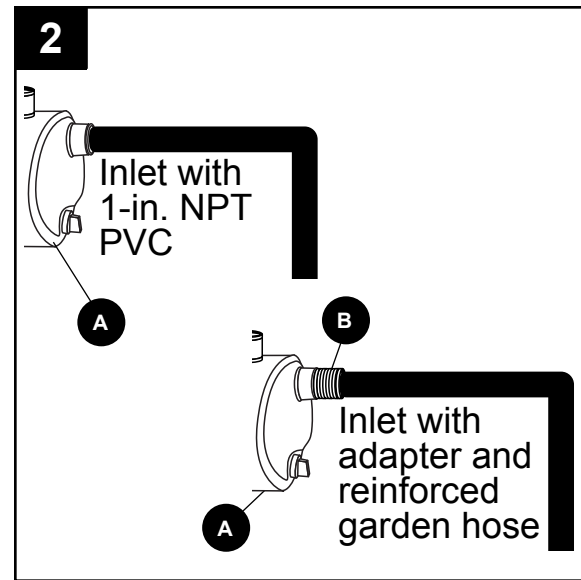
- Pump (A) inlet connection is designed for 1 in. NPT thread. You can connect to the inlet with either 1 in. NPT PVC or garden hose. For garden hose connections, thread adapter (B) into the inlet. Seal connections with PVC-safe sealant or thread sealant tape.

NOTE: Minimize length of pipe and number of fittings.

NOTE: The inlet hose must be a reinforced type when pumping from lakes, ponds, or small streams. Regular garden hose will collapse and lead to failure of pump (A). Inlet line should be the same diameter as the discharge line, or larger.

- Attach garden hose to adapter (B) or connect 1 in. PVC pipe directly to pump (A) inlet. A foot valve with strainer (not provided) should be installed at the end of the discharge hose or pipe to maintain prime during operation.

- Seal all connections in the inlet hose with PVC-safe sealant or thread sealant tape (not provided). An air leak in the fittings, hose, pipe, or connections will reduce pump (A) performance and lead to pump failure.



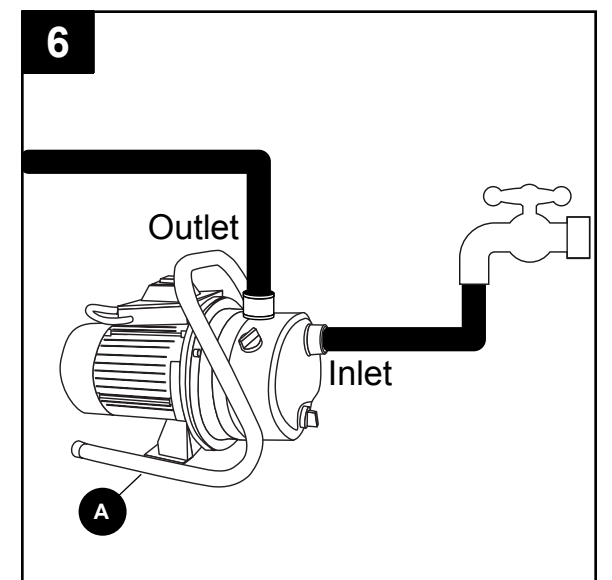
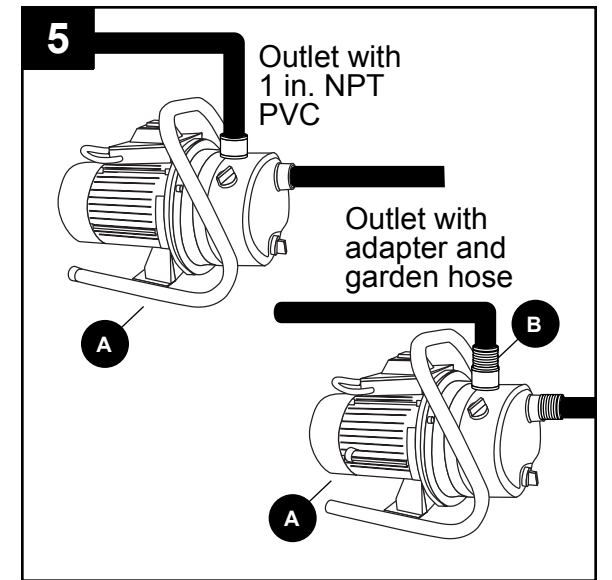
- Connect 1 in. NPT pipe or garden hose to pump (A) discharge. For garden hose connections, thread adapter (B) into the discharge before connecting the hose.

### BOOSTING WATER PRESSURE

- Connect 1 in. NPT pipe or garden hose to pump (A) as in step 2. Connect the other end of the inlet line to water supply such as a spigot.

Connect outlet pipe or hose to pump (A).

**CAUTION** Do not run pump (A) with outlet pipe or nozzle closed. The hose may burst from excessive pressure. Use only reinforced high-pressure hose or pipe for outlet pipe when boosting water pressure.

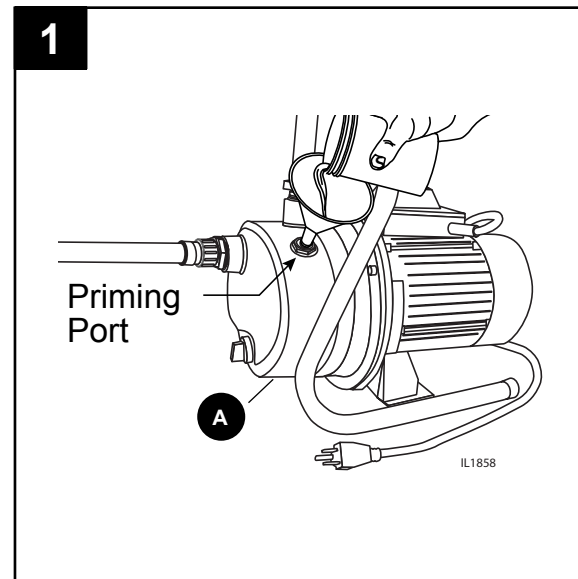


## OPERATING INSTRUCTIONS

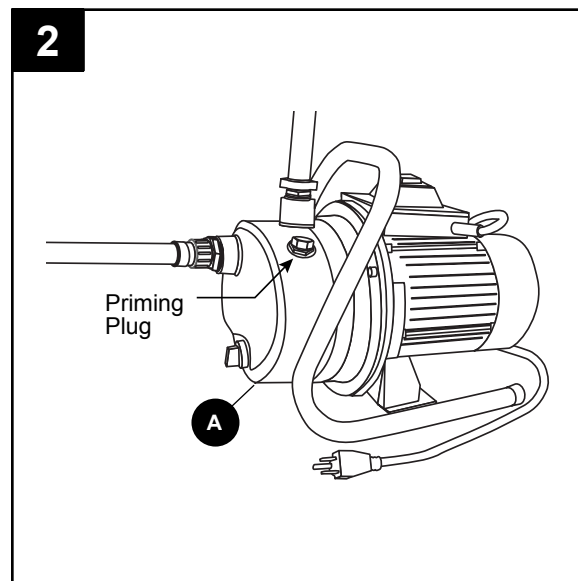
1. Remove priming plug on pump (A) and fill with water.

**⚠ CAUTION** Never run pump (A) dry. Running pump without water will cause seal failure. Fill pump (A) with water before starting, unless the pump is used for pressure boosting.

NOTE: For boosting water pressure: Do not remove priming plug. Turn on the water supply. (See Step 6 in INSTALLATION INSTRUCTIONS).



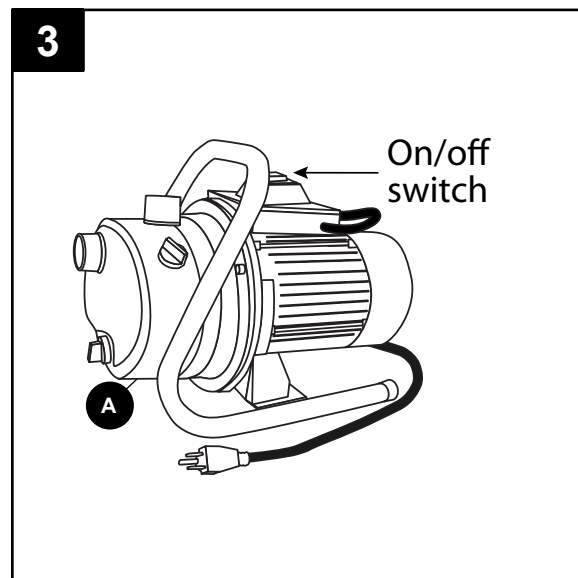
2. Reinstall priming plug on pump (A).



3. Turn pump (A) switch to the “off” position and connect power cord to GFCI outlet.

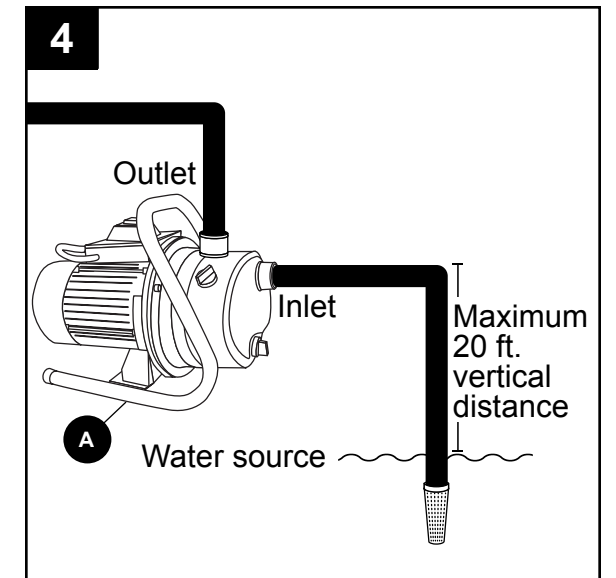
NOTE: Pump (A) is for use only on 120 volt (single phase), 60 Hz, 15 amp service, and is equipped with a 3-conductor cord and e-prong, grounding type plug.

**⚠ WARNING** Use a grounded receptacle to reduce the risk of fatal electric shock. Never cut off the round grounding prong on the power cord. Cutting the cord or plug will make pump (A) unsafe to operate and void the warranty.



4. Turn pump (A) switch to the “on” position. If the pump does not pump water within 5 minutes, turn off pump (A) and repeat steps 1 through 4. Check the following:

- Vertical distance of pump (A) to water level must not be more than 20 feet.
- Inlet line must be airtight.
- All valves in inlet and discharge line must be open.



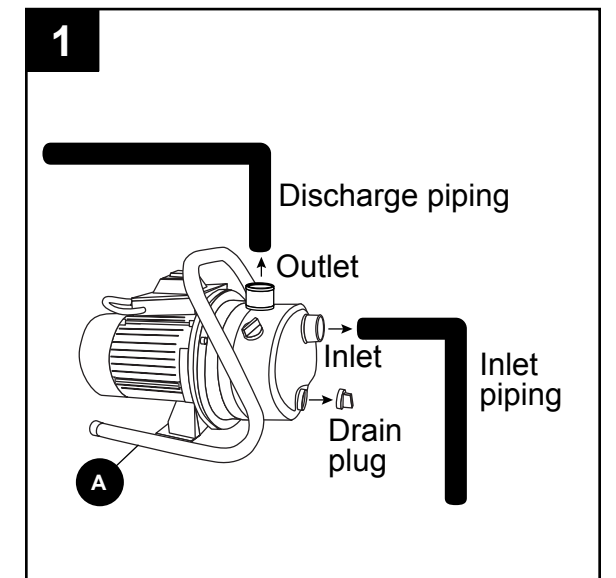
## CARE AND MAINTENANCE

Maintain adequate ventilation for the pump motor. The motor bearings are permanently lubricated at the factory. Additional lubrication is not required.

### DRAINING FOR WINTER

Always protect pump (A) and piping against freezing temperatures. If there is any danger of freezing, drain the system.

1. Disconnect inlet and discharge lines from pump (A).
2. Remove drain plug from lower front face of pump (A).
3. Drain all piping below the frost line, or store piping indoors.
4. Store pump (A) indoors.





## TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Motor will not run.	<ol style="list-style-type: none"> <li>1. Disconnect switch is off.</li> <li>2. Fuse or circuit breaker is blown.</li> <li>3. Starting switch is defective.</li> <li>4. Wires at motor are loose, disconnected or wired incorrectly.</li> </ol>	<ol style="list-style-type: none"> <li>1. Be sure switch is on.</li> <li>2. Replace fuse or reset circuit breaker.</li> <li>3. Replace starting switch.</li> <li>4. Refer to wiring instructions. Check and tighten all wiring.</li> </ol>
	<p><b>⚠ WARNING</b> Capacitor voltage may be hazardous. To discharge capacitor, touch short capacitor terminals with an insulated screwdriver. BE SURE to hold handle of screwdriver while making contact with capacitor terminals.</p>	
Motor runs hot and overload kicks off.	<ol style="list-style-type: none"> <li>1. Motor is wired incorrectly.</li> <li>2. Voltage is too low.</li> <li>3. Pump (A) enclosure is not properly vented.</li> <li>4. Collapsed inlet hose.</li> </ol>	<ol style="list-style-type: none"> <li>1. Refer to wiring instructions.</li> <li>2. Check with power company. Install heavier wiring if wire size is too small.</li> <li>3. Be sure pump (A) has sufficient ventilation to cool the motor.</li> <li>4. Replace with reinforced hose.</li> </ol>
Motor runs but no water is delivered.  NOTE: Check prime before looking for other causes. Un-screw priming plug and check for water in pump housing.	<ol style="list-style-type: none"> <li>1. NEW INSTALLATIONS - Pump (A) does not prime as a result of:               <ol style="list-style-type: none"> <li>a. Improper priming</li> <li>b. Air leaks</li> <li>c. Leaking foot valve</li> </ol> </li> <li>2. EXISTING INSTALLATIONS - Pump (A) does not prime as a result of:               <ol style="list-style-type: none"> <li>a. Air leaks</li> <li>b. Water level below inlet of pump (A)</li> </ol> </li> <li>3. Impeller is plugged.</li> <li>4. Check valve or foot valve is stuck in closed position.</li> <li>5. Pipes are frozen.</li> <li>6. Foot valve and/or strainer are buried in sand or mud.</li> <li>7. Collapsed inlet hose.</li> </ol>	<ol style="list-style-type: none"> <li>1. NEW INSTALLATIONS:               <ol style="list-style-type: none"> <li>a. Re-prime according to instructions.</li> <li>b. Check all connections on inlet line for leaks.</li> <li>c. Replace foot valve.</li> </ol> </li> <li>2. EXISTING INSTALLATIONS:               <ol style="list-style-type: none"> <li>a. Check all connections on inlet line and shaft seal.</li> <li>b. Lower inlet line into water and re-prime.</li> </ol> </li> <li>3. Clean impeller.</li> <li>4. Replace check valve or foot valve.</li> <li>5. Thaw pipes. Bury pipe below frost line. Protect pump (A) in a pit or pump house.</li> <li>6. Raise foot valve and/or strainer above any sand or mud.</li> <li>7. Replace with reinforced hose.</li> </ol>

## WARRANTY

This product is warranted for one year from the date of purchase or two years from the date of manufacture, whichever occurs first. Subject to the conditions hereinafter set forth, the manufacturer will repair or replace to the original consumer, any portion of the product which proves defective due to defective materials or workmanship. To obtain warranty service, contact the dealer from whom the product was purchased. The manufacturer retains the sole right and option to determine whether to repair or replace defective equipment, parts or components. Damage due to conditions beyond the control of the manufacturer is not covered by this warranty. For warranty questions or service, call 1-800-742-5044.

THIS WARRANTY WILL NOT APPLY: (a) To defects or malfunctions resulting from failure to properly install, operate or maintain the unit in accordance with printed instructions provided; (b) to failures resulting from abuse, accident or negligence; (c) to normal maintenance services and the parts used in connection with such service; (d) to units which are not installed in accordance with normal applicable local codes, ordinances and good trade practices; and (e) the unit is used for purposes other than for what it was designed and manufactured.

RETURN OF WARRANTED COMPONENTS: Any item to be repaired or replaced under this warranty must be returned to the manufacturer at such place as the manufacturer may designate, freight prepaid.

THE WARRANTY PROVIDED HEREIN IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES, AND MAY NOT BE EXTENDED OR MODIFIED BY ANYONE. ANY IMPLIED WARRANTIES SHALL BE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY AND THEREAFTER ALL SUCH IMPLIED WARRANTIES ARE DISCLAIMED AND EXCLUDED. THE MANUFACTURER SHALL NOT, UNDER ANY CIRCUMSTANCES, BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES, SUCH AS, BUT NOT LIMITED TO DAMAGE TO, OR LOSS OF, OTHER PROPERTY OR EQUIPMENT, LOSS OF PROFITS, INCONVENIENCE, OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY TYPE OR NATURE. THE LIABILITY OF THE MANUFACTURER SHALL NOT EXCEED THE PRICE OF THE PRODUCT UPON WHICH SUCH LIABILITY IS BASED.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state. Some states do not allow limitations on duration of implied warranties or exclusion of incidental or consequential damages, so the above limitations may not apply to you.

**In those instances where damages are incurred as a result of an alleged pump failure, the Homeowner must retain possession of the pump for investigation purposes.**

## REPLACEMENT PARTS LIST

There are no warranty replacement parts available for this product. For non-warranty replacement parts listed below, call our customer service department at 1-800-742-5044, 7:30 a.m. - 5:00 p.m., EST, Monday - Friday.

PART	DESCRIPTION	PART #
B	Garden Hose Adapters	025061
C	Drain Plug and Priming Plug	025062
D	Impeller, Diffuser, Nozzle Kit	024609

