



## SUBMERSIBLE SUMP PUMP

- ✓ MODEL: HPSPCIT4000
- ✓ MODEL: HPSPCIT4500
- ✓ MODEL: HPSPCIV4000
- ✓ MODEL: HPSPCIV4500

# OWNER'S MANUAL

### Hidropoint, LLC.

9623 W. Hunt Club Dr.  
Mequon, WI 53097

Phone: (262)299-5188

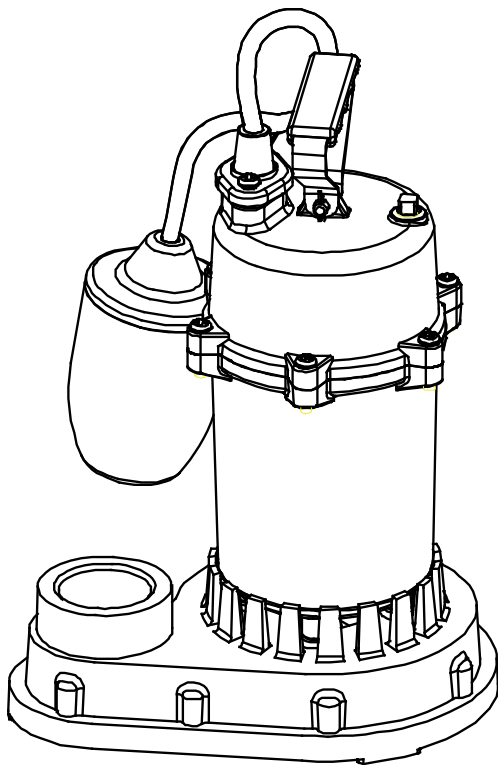
Fax : (262)247-0096

E-Mail: [services@hidropoint.com](mailto:services@hidropoint.com)

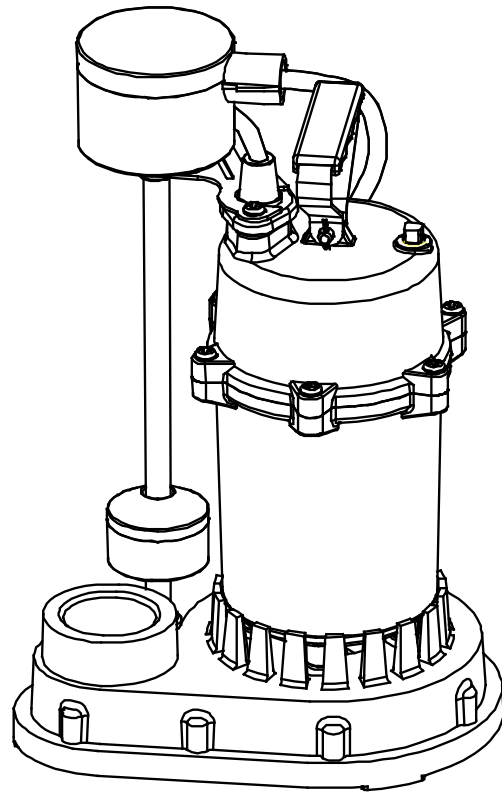
Web: <http://www.hidropoint.com>

### OFFICE HOURS:

Monday – Friday: 9:00 AM – 6:00 PM (EST)



HPSPCIT4000  
HPSPCIT4500



HPSPCIV4000  
HPSPCIV4500

## UNPACKING CHECK

Inspect this pump before it is used. Occasionally, pumps can be damaged during shipping. If the pump or components are missing, deformed, or cracked, e-mail: [services@hidropoint.com](mailto:services@hidropoint.com) or call us at: (262)299-5188, Monday - Friday between 9:00 a.m. - 6:00 p.m., EST. **ATTEMPTING TO USE A DAMAGED PUMP** can result in personal injury or death!

## DESCRIPTION

This Hidropoint submersible sump pump is designed for home sump applications. The pump is built with overload thermal protections and auto reset. The pump is equipped with a 10' 3-prong grounding-type power cord and tethered float switch. This pump operates automatically. Ball bearings on motor shafts never need lubrication. Pump only water with this pump. This pump has not been tested or approved for use in swimming pools or in salt-water marine areas. It is also not engineered to be run continuously as a "fountain" or "waterfall" pump.

## SPECIFICATIONS

- Power supply required..... 115V, 60 HZ
- Water temperature range..... Max.77°F (25°C)
- Individual branch circuit required..... 15 Amp minimum
- Discharge Connection..... 1-1/2" NPT / 1-1/4" NPT (with adaptor)
- Motor duty.....Continuous
- Power cord.....SJTW, 18AWG/3C, 10ft

**NOTICE:** This unit is not designed to be used to pump salt water or brine! Use with salt water or brine will void warranty.

## CONSTRUCTION

- Motor housing..... Cast Iron
- Motor cap.....Cast Iron
- Volute (Intake screen).....Cast Iron
- Impeller.....Reinforced thermoplastic

## PERFORMANCE

Table 1

Model	HP	GPH of Water @ Total Feet (Meters) of Lift					Max. Lift
		5ft.(1.5m)	10ft.(3m)	15ft.(4.6m)	20ft.(6.1m)	25ft (7.6m)	
HPSPCIT4000	1/3	3360	2850	2340	1800	780	28ft.
HPSPCIV4000	1/3	3360	2850	2340	1800	780	28ft
HPSPCIT4500	1/2	4020	3780	3360	2880	1860	32ft
HPSPCIV4500	1/2	4020	3780	3360	2880	1860	32ft

## GENERAL SAFETY INFORMATION



- Do not lift pump by power cord or switch cord.
- Do not touch an operating motor housing. The motor is designed to operate at high temperatures.
- Do not disassemble the motor housing. The motor has NO repairable internal parts, and disassembling it may cause water leakage into motor housing or dangerous electrical wiring issues.

This pump is made of high-strength, corrosion-resistant materials. It will provide trouble-free service for a long time when

properly installed, maintained, and used. However, inadequate electrical power to the pump, dirt, or debris may cause the pump to fail. Please carefully read the manual and follow the instructions regarding common pump problems and remedies.

### Additional Safety Precautions

1. Know the pump applications, limitations, and potential hazards.
2. Make certain the electrical power source is adequate for the requirements of the pump.
3. ALWAYS disconnect the power to the pump before servicing.
4. Release all pressure within system before servicing any component.
5. Drain all water from system before servicing.
6. Secure discharge line before starting pump. An unsecured discharge line will whip, possibly causing personal injury and/or property damage.
7. Secure the pump on a solid base to keep the pump vertical and above mud and sand during operation to maximize pumping efficiency and prevent clogging and premature pump failure.
8. Check that all pipe connections are tight to minimize leaks.
9. Connect the pump DIRECTLY to a grounded, GFCI outlet.
10. Extension cords may not deliver sufficient voltage to the pump motor. Extension cords present a life threatening safety hazard if the insulation becomes damaged or the connection ends fall into water.
11. Make certain the electrical circuit to the pump is protected by a 15 Amp or larger fuse or circuit breaker.
12. Periodically inspect the pump and system components to be sure the pump inlets are free of mud, sand, and debris. DISCONNECT THE PUMP FROM THE POWER SUPPLY BEFORE INSPECTING.
13. Do not handle pump or pump motor with wet hands or when standing on wet or damp surface, or in water.
14. Wear safety glasses at all times when working with pumps.
15. Follow all electrical and safety codes, particularly the National Electrical Code (NEC) and in the workplace, the Occupational Safety and Health Act (OSHA).
16. This unit is designed only for use on 115 volts (single phase), 60 Hz, and is equipped with an approved 3-conductor cord and 3-prong grounded plug. DO NOT REMOVE THE GROUND PIN UNDER ANY CIRCUMSTANCES. The 3-prong plug must be directly inserted into a properly installed and grounded 3-prong, grounding-type receptacle. **Do not use this pump with a 2-prong wall outlet.** Replace the 2-prong outlet with a properly grounded 3-prong receptacle (a GFCI outlet) installed in accordance with the National Electrical Code and local codes and ordinances. All wiring should be performed by a qualified electrician.
17. Protect the electrical cord from sharp objects, hot surfaces, oil, and chemicals. Avoid kinking the cord. **Do not use damaged or worn cords.**

## INSTALLATION

**Materials required:** 1-1/4" PVC pipe with cement to match, threaded adapter (pipe to pump), and check valve. Purchase a check valve that goes in the discharge line or in the pump discharge. Be sure to install the check valve so that the flow will be away from the pump.



*Always use the handle to lift the pump. Never use the power cord to lift the pump.  
To avoid skin burns, unplug the pump and allow time for it to cool after periods of extended use*

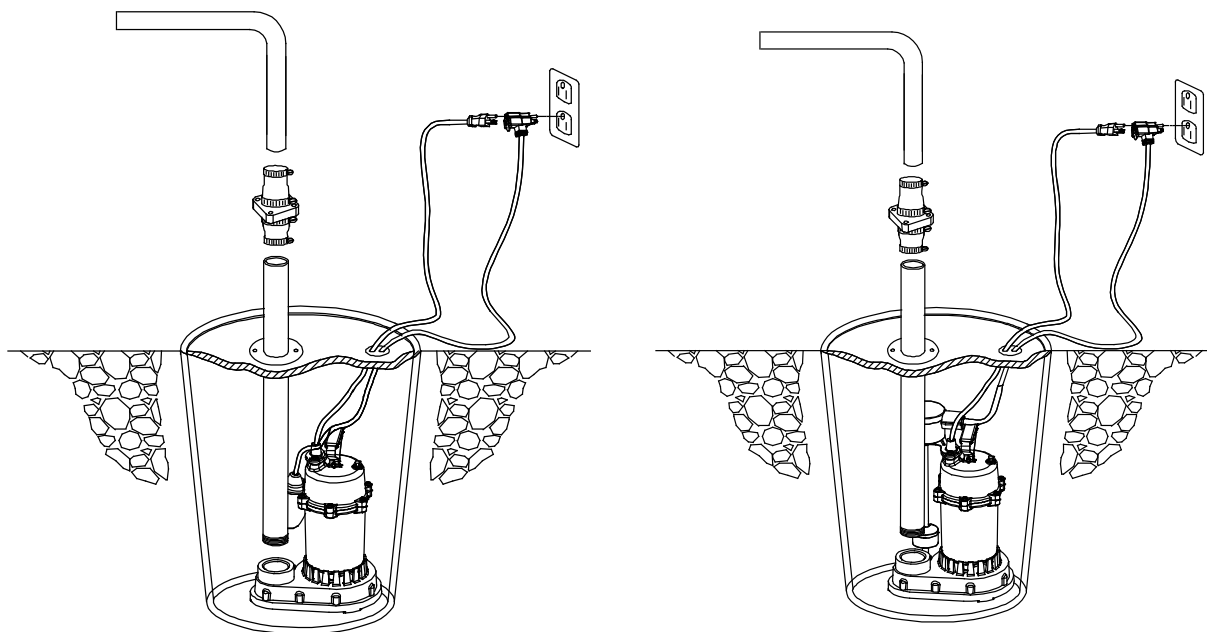
1. Sump pit should be 10" (254mm) diameter by 14" (254mm) depth for vertical switch models; 14" (356mm) diameter by 18" (457mm) depth for tethered switch models.
2. Construct sump pit of tile, concrete, steel, or plastic. Check local codes for approved materials and for proper installation.

3. Clean sump pit of small stones, gravel, or mud. Secure the pump on a level, solid base. Do not suspend the pump by the discharge pipe, hose, or power cord.
4. Install discharge plumbing and a check valve in the vertical pipe to prevent flow backwards through the pump when it shuts off. Use rigid plastic pipe and wrap threads with Teflon tape, **NOT pipe joint compound**. Screw pipe into pump hand tight plus 1-1/2 turns.
5. To reduce motor noise and vibrations, a short length of rubber hose can be connected into discharge line near pump using suitable clamps.
6. After the installation of the necessary plumbing, check valve, and rubber hose, follow the glue manufacturer's instructions for safety precautions and curing time. The pump is ready for operation.
7. Pump is designed for 115 V., 60Hz, operation and requires a minimum 15 amp individual branch circuit.
8. Check the pump by filling the sump pit with water and observe the pump's operation through one complete cycle. Make sure the pump cannot move in the sump and the float switch moves freely up and down.

## OPERATION



*Do not handle this pump or plug in or unplug this pump with wet hands or while standing in water, unless you are certain all power has been turned off to the pump. Remember, the pump should be connected only to a properly grounded, GFCI outlet.*



1. Make certain the pump is submerged in water. Running the pump dry can damage the shaft seal.
2. Plug the pump power cord plug into the piggyback switch plug outlet, and then plug the switch plug into a 115V GFCI power outlet. When the float switch moves up over the pump top the pump will start operating. The water will be pumped out. When the water lowers to a certain level, the float switch will turn off the pump. This pump also can operate manually if the switch fails. Directly plug the power cord plug into a 115V GFCI power outlet. The pump will pump water out.
3. The motor is equipped with an automatically resetting thermal overload protector. If the motor gets too hot, the overload protector will shut off the pump before it is damaged. When the motor has cooled sufficiently, the overload protector will reset, and the motor will restart.

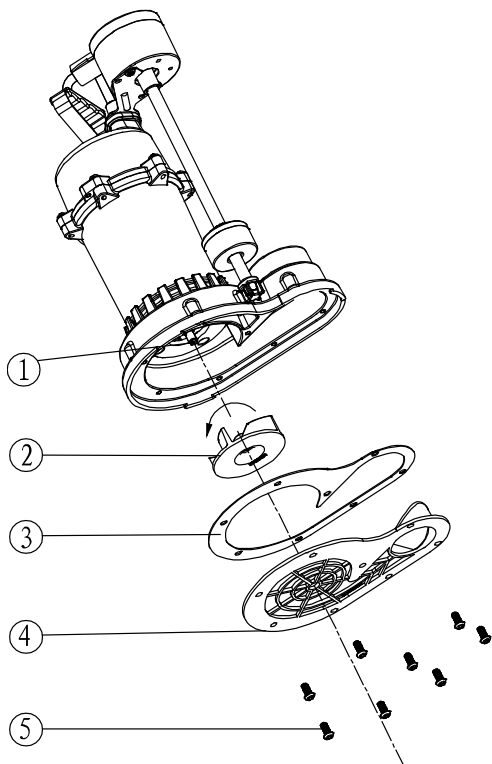
**NOTICE:** *If the overload protector stops the pump repeatedly, disconnect the power from the pump and check to find the problem. Low voltage, a long extension cord, clogged impeller, screen blocked by debris, or water that is too hot can*

cause motor overheating.

**TROUBLESHOOTING**



*Do not disassemble the motor housing. This pump has NO repairable internal parts, and disassembly may cause an oil leak or dangerous electrical wiring conditions. DO NOT lift up the pump by power cord.*



Item number	Description
1	Motor shaft
2	Impeller
3	Gasket
4	Seal plate
5	Screws

**Table 2 Troubleshooting Common Pump Problems**

Problem	Possible Cause	Corrective Action
Pump does not start or run	<ol style="list-style-type: none"> <li>1. Blown fuse</li> <li>2. Tripped breaker</li> <li>3. Plug disconnected</li> <li>4. Corroded plug</li> <li>5. Thermal overload</li> <li>6. Float switch failed</li> <li>7. Motor failed</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace fuse</li> <li>2. Reset breaker</li> <li>3. Secure plug</li> <li>4. Clean plug prongs</li> <li>5. Unplug for 30 minutes, then plug in</li> <li>6. Directly plug the power cord into the power source outlet. If the pump works, the switch must be faulty. Replace switch.</li> <li>7. Directly plug the power cord (skip switch) into the power source outlet. If the pump doesn't work or motor is humming, the motor must be faulty. Replace pump.</li> </ol>
Pump operates but pumps little or no water	<ol style="list-style-type: none"> <li>1. Screen blocked</li> <li>2. Debris caught in the impeller or discharge</li> <li>3. Impeller loose on shaft</li> <li>4. Impeller broken</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean screen</li> <li>2. Remove debris</li> <li>3. Reassemble impeller</li> <li>4. Replace impeller</li> </ol>

Pump starts and stops too often	<ol style="list-style-type: none"> <li>1. Backflow of water from piping or check valve leaking</li> <li>2. Tangled switch</li> <li>3. Float Switch failed</li> </ol>	<ol style="list-style-type: none"> <li>1. Install a check valve or replace the check valve</li> <li>2. Reposition the pump and make sure the switch moves freely</li> <li>3. Replace switch</li> </ol>
Pump will not shut off	<ol style="list-style-type: none"> <li>1. Tangled switch</li> <li>2. Faulty float switch</li> <li>3. Float obstructed</li> </ol>	<ol style="list-style-type: none"> <li>1. Reposition the pump and make sure the switch moves freely</li> <li>2. Replace switch</li> <li>3. Remove obstruction</li> </ol>

## WARRANTY

Hidropoint warrants, to the original purchaser and subsequent owner during the warranty period, every new product to be free from defects in material and workmanship under normal use and service, when properly used and maintained, for a period of 90 days from date of purchase by the end user. Your original receipt of purchase is required to determine warranty eligibility.

Purchaser must pay all labor and shipping charges necessary to replace product covered by this warranty. This warranty does not apply to products which have been damaged as a result of flood, negligence, abuse, accident, misapplication, tampering, alteration; or due to improper installation, operation, maintenance or storage; or to other than normal application, use or service, including but not limited to, operational failures caused by corrosion, rust, or other foreign materials including but not limited to the following: sand, gravel, cement, mud, tar, hydrocarbons, hydrocarbon derivatives (oil, gasoline, solvents, etc.), or other abrasive or corrosive substances, wash towels or feminine sanitary products, etc. in all pumping applications.

**Hidropoint shall not be liable for any consequential, incidental, or contingent damages whatsoever.**

**The foregoing warranties are exclusive and in lieu of all other express warranties. Implied warranties, including but not limited to the implied warranties of merchantability and fitness for a particular purpose, shall not extend beyond the duration of the applicable express warranties provided herein.**

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

Contact our Customer Service Department to obtain any needed repair or replacement of part(s) or additional information pertaining to our warranty. Please call at 262-299-5188 or e-mail at [services@hidropoint.com](mailto:services@hidropoint.com) for return authorization and instruction. **You must retain your purchase receipt. For warranty claims, you must send the copy of the purchase receipt along with the material or correspondence.**

### Hidropoint, LLC.

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