

Model HC5000

Electronic Sewage Pump Switch

Patents Pending

Installation Instructions

Overview

The installation of the Sewage Pump Switch is simple and straightforward, but there are **THREE VERY IMPORTANT** things to remember for the Sewage Pump Switch to give you years of trouble free, worry free, service. *Important note: Your sump pump motor should draw between 2.5 and 13.8 Amps to work with the Sewage Pump Switch.*

1. The **“piggyback plug”** attached to the mechanical float switch **cannot be used with the Sewage Pump Switch**. It must be disconnected and remain disconnected. Just let it lay on the floor after the Sewage Pump Switch is installed.
2. If your sump pump has internal float switch wiring, i.e. doesn't have a “piggyback plug,” then you **MUST** secure the float up as if the pit was full so that its internal switch is always closed and the pump enabled.
3. **The sensor shouldn't touch anything else in the pit, like the wall, the discharge pipe, etc. If it does it might be confused and think it is time to turn the pump on.**

Step-by-Step Installation

Step 6
Important! Test your installation before leaving it for unattended operation.

Step 5
Plug the sewage pump motor into the front of the HC5000's control module. Note that the HC5000's output is rated for a maximum of 120 VAC, ¼ HP/13.8 Amps (standard for most sump pumps).

Step 4
Plug the HC5000 control module into the 120VAC outlet. It will beep 4 times to tell you it's ready to go and the LED will illuminate RED. RED indicates the output is off. GREEN, or flashing GREEN, indicates the output is on. **Note that this product is not rated for outdoor use.**

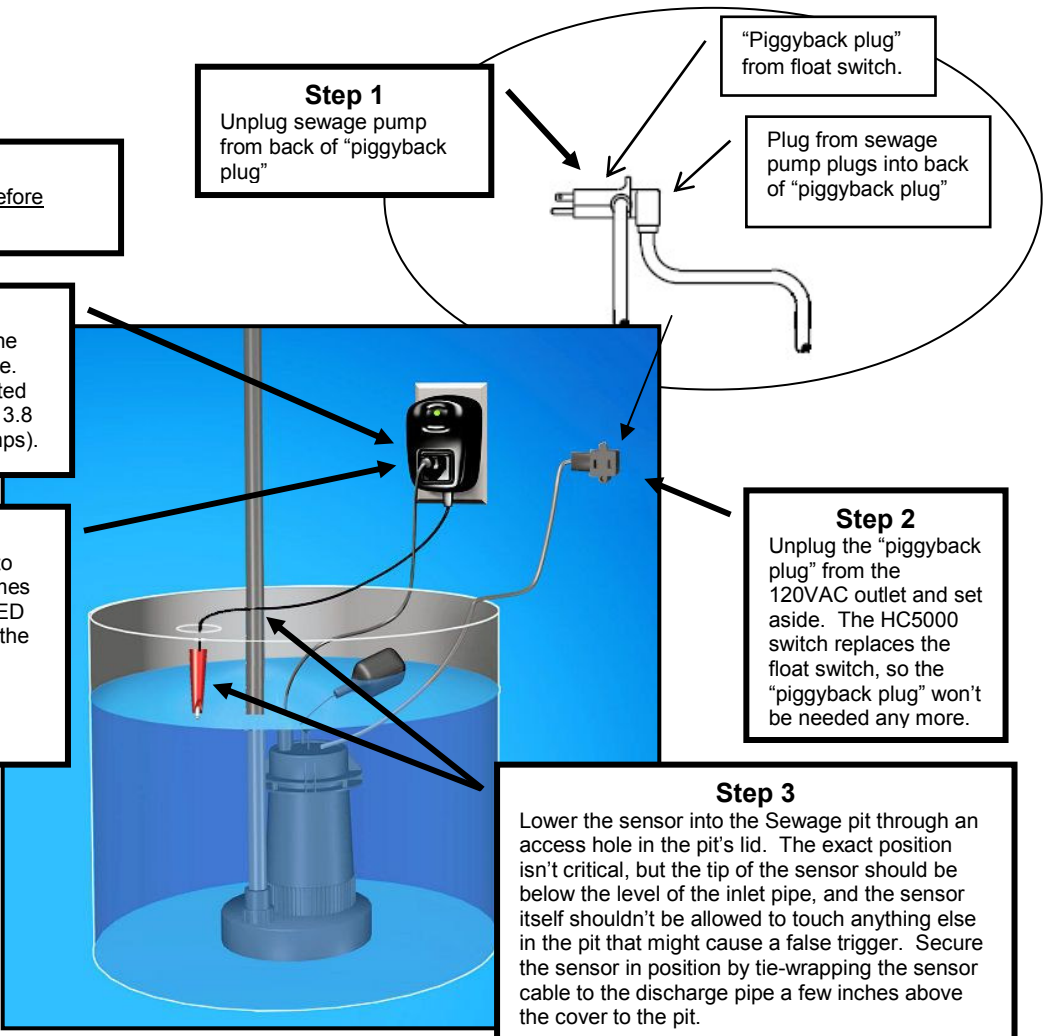
Step 1
Unplug sewage pump from back of “piggyback plug”

“Piggyback plug” from float switch.

Plug from sewage pump plugs into back of “piggyback plug”

Step 2
Unplug the “piggyback plug” from the 120VAC outlet and set aside. The HC5000 switch replaces the float switch, so the “piggyback plug” won't be needed any more.

Step 3
Lower the sensor into the Sewage pit through an access hole in the pit's lid. The exact position isn't critical, but the tip of the sensor should be below the level of the inlet pipe, and the sensor itself shouldn't be allowed to touch anything else in the pit that might cause a false trigger. Secure the sensor in position by tie-wrapping the sensor cable to the discharge pipe a few inches above the cover to the pit.



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HC5000 Sewage Pump Switch Troubleshooting Chart

The Model HC5000 Sewage Pump Switch has a number of built in alarms that warn of problems with the pump or discharge plumbing. The available alarms are described in the table below.

To disable the alarms perform the following steps:

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Unplug pump from control module. 2. Lift sensor out of water. 3. Unplug control module from 120 VAC outlet. Wait 10 seconds. 4. Plug control module back into outlet. Wait 10 seconds. | <ol style="list-style-type: none"> 5. Unplug control module from 120 VAC outlet. Wait 10 seconds. 6. Plug control module back into outlet. Wait 10 seconds. 7. Plug pump back into control module 8. Place sensor back into water |
|--|---|

Alarm/Indicator/Problem	Description	Possible Causes
2 Beeps	Can't turn pump on	<ol style="list-style-type: none"> 1. Pump not plugged in 2. Float piggy-back plug not disconnected 3. Float switch not secured in "on" position (internally wired float switch)
3 Beeps	High Level Alarm	<ol style="list-style-type: none"> 1. Pump can't keep up with water coming in 2. Discharge plumbing blocked 3. Debris on sensor
Steady Slow Beep*	Motor current above normal	<ol style="list-style-type: none"> 1. High motor current. Replace pump and/or perform Master Reset as described below.
Steady Fast Beep*	Motor current too high	<ol style="list-style-type: none"> 1. Very high motor current. Replace pump and/or perform Master Reset as described below.
Steady Red LED	Pump off, no water detected	<ol style="list-style-type: none"> 1. Normal operation
Flashing Red LED	Pump off, no water detected, switch in short cycle mode	<ol style="list-style-type: none"> 1. If, during a calibration cycle, the switch does not detect the drop in motor current indicating an empty pit, it defaults to a 6 second cycle time to protect the pump motor from being run dry
Steady Green LED	Pump on, water detected by sensor	<ol style="list-style-type: none"> 1. Normal operation
Slow Flashing Green LED	Pump on, water below	<ol style="list-style-type: none"> 1. Normal operation
Pump doesn't turn on	Sensor in water but pump doesn't start. LED is steady Red and switch isn't beeping	<ol style="list-style-type: none"> 1. Sensor isn't getting good ground from pump. Install ground wire as described in "How Sensor Works" on front of sheet
Pump turns off too soon	Pump starts okay, but shuts off before it starts to suck air	<ol style="list-style-type: none"> 1. Problem with pump's discharge path. Try to reduce resistance by decreasing number of bends, shortening discharge distance, etc.

*Master Reset Procedure:

1. Unplug the pump from the HC5000
2. Unplug the HC5000 from the 120 VAC outlet
3. Wait 5 seconds then plug the HC5000 back into the 120 VAC outlet
4. Wait for the HC5000 to finish its startup checks (about 5 seconds) then plug the pump back in.

Model HC5000 Sewage Pump Switch Limited Lifetime Warranty

STAK Enterprises Inc. warrants the **Model HC5000 Sewage Pump Switch** to be free from defects in materials and workmanship for its normal, useful life, from the date of purchase. STAK Enterprises Inc. makes no other express warranty for this device. No agent, representative, dealer, or employee of STAK Enterprises Inc. has the authority to increase or alter the obligations or limitations of the warranty. The company's obligation of this warranty shall be limited to the repair or replacement of any part of the HC5000 which is found to be defective in materials or workmanship under normal use and service during the duration of product use by original product owner commencing with the date of purchase. Owner must pay all shipping charges necessary to replace product covered by this warranty. This warranty shall not apply to acts of God, nor shall it apply to products which, in the sole judgment of STAK Enterprises, inc. have been subject to negligence, abuse, accident, tampering, alteration, misapplication, or improper installation. Units in need of repair should be returned, shipping prepaid, to

Customer Service Department
 STAK Enterprises, Inc.
 471-A Jennings Drive
 Lake in the Hills, IL 60156

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