

Patent No.
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Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



12 VOLT DC BATTERY BACKUP PUMP INSTALLATION INSTRUCTIONS


PREINSTALLATION CHECKLIST

1. Inspect your pump. Occasionally, products are damaged during shipment. If the unit or any of the parts are damaged, contact your dealer before using.
2. Carefully read the literature provided to familiarize yourself with specific details regarding installation and use. These materials should be retained for future reference.



WARNING

SEE BELOW FOR LIST OF WARNINGS

1. Testing for ground. As a safety measure each electrical outlet should be checked for ground using an Underwriters Laboratory listed circuit analyzer, which will indicate if the power, neutral and ground wires are correctly connected to your outlet. If they are not, call a qualified, licensed electrician.
2. For your protection, always disconnect the power supply from its power source before handling the components of your DC backup pump or the primary pump.
3. Installation and servicing of electrical circuits and hardware should be performed by a qualified, licensed electrician.
4. All electrical and safety codes must be followed including the National Electrical Code and all applicable local codes.
5.  It is the owner's responsibility to check the battery and battery connection at least once a month. Batteries contain acid, and caution must be taken when handling.
6. Risk of electric shock. These pumps have not been investigated for use in swimming pools and marine areas.
7. Prop65 Warning for California residents: Cancer and Reproductive Harm-
www.P65Warning.ca.gov.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the module/ product.
- Increase the separation between the equipment and module / product.
- Consult the dealer or an experienced radio / TV technician for help.

CAUTION

SEE BELOW FOR LIST OF CAUTIONS

1. Make sure there is a properly grounded 115 V receptacle available. We recommend the primary sump pump and the controller be on separate circuits. The location must be within 6' (1.8 m) of the control box and battery. The power supply for your DC control system plugs directly into the 115 V outlet. **DO NOT USE AN EXTENSION CORD.**
2. Make sure the 115 V electrical supply circuit is equipped with fuses or circuit breakers of proper capacity.
3. DC emergency pumps are designed for handling clear water. Do not use in septic tanks to pump effluent or in sewage pits to pump sewage.
4. Repair and service of your DC backup system should be performed by an authorized service station.
5. The installation of DC automatic backup pumps requires the use of a variable level float switch for operation. It is the responsibility of the installing party to ensure that the float switch will not hang up on the pump apparatus or pit peculiarities and is secured so the pump will turn "on" and "off". It is recommended that the pit be 18" (45.7 cm) in diameter or larger to accommodate both a primary and a DC backup pump.
6. For indoor use only.

CAUTION Turbulence caused by high-velocity incoming water can cause sump pumps to airlock. If this condition exists, the incoming water must be baffled to avoid excessive turbulence.

REFER TO WARRANTY ON PAGE 2.

LIMITED WARRANTY

Manufacturer warrants, to the 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 three years from date of purchase by the end user. Zoeller batteries have a 3 year warranty. Parts that fail within the warranty period, that inspections determine to be defective in material or workmanship, will be repaired, replaced or remanufactured at Manufacturer's option, provided however, that by so doing we will not be obligated to replace an entire assembly, the entire mechanism or the complete unit. No allowance will be made for shipping charges, damages, labor or other charges that may occur due to product failure, repair or replacement.

This warranty does not apply to and there shall be no warranty for any material or product that has been disassembled without prior approval of Manufacturer, subjected to misuse, misapplication, neglect, alteration, accident or uncontrollable act of nature; that has not been installed, operated or maintained in accordance with Manufacturer's installation instructions; that has been exposed to outside substances 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. The warranty set out in the paragraph above is

in lieu of all other warranties expressed or implied; and we do not authorize any representative or other person to assume for us any other liability in connection with our products.

Contact Manufacturer at, 3649 Cane Run Road, Louisville, Kentucky 40211, Attention: Customer Support Department to obtain any needed repair or replacement of part(s) or additional information pertaining to our warranty.

MANUFACTURER EXPRESSLY DISCLAIMS LIABILITY FOR SPECIAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES OR BREACH OF EXPRESSED OR IMPLIED WARRANTY; AND ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND OF MERCHANTABILITY SHALL BE LIMITED TO THE DURATION OF THE EXPRESSED WARRANTY.

Some states do not allow limitations on the duration of an implied warranty, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion 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.

In instances where property damages are incurred as a result of an alleged product failure, the property owner must retain possession of the product for investigation purpose.

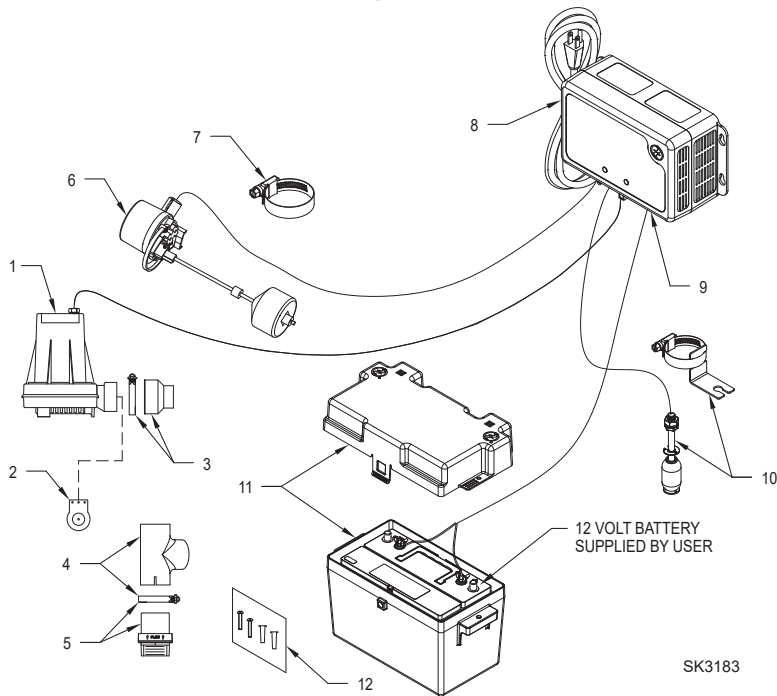
DESCRIPTION

This system is a backup to your primary sump pump. It is designed to protect against flooding during power outages or primary pump failure. This system is unique in that it is self-testing. The pump is self-priming and specifically designed and manufactured by Zoeller as a purpose-built DC sump pump, rather than a repurposed bilge pump. The controller has smart diagnostics built in. If the DC pump is unplugged or jammed, for example, a fault alarm will result. If the float switch is missing/unplugged, it will create an alarm condition. The controller will recognize the difference between a pump that is pumping air vs. a pump that is pumping water. This will lead to behaviors designed to purge air and remedy an air lock situation. The controller also has smart float logic that is designed to prevent a continuous running pump (or run dry pump condition). Zoeller uses a normally open operational float switch, and an optional normally closed high water float switch. The advanced technology hardware and firmware in the Spin controller will recognize, attempt to remedy, and alarm for many conditions that have not previously been possible. The controller will automatically charge and maintain the battery in a way designed to extend battery life.

Pump	Construction	Non-corrodible plastic, premium seals
	Performance	35 GPM at 10' (113 LPM at 3 m) at 12.7 volts
	Continuous Running Time	5.5 hours with recommended battery
	Duty Cycle of 10%	2 days
	Connection	9' (2.7 m) cord with connector
Controller	Construction	ABS plastic
	Power requirement	115 V 15 amp circuit
	Consumption	Up to 3 amps at 115 V
	Charger output	3 amp multi-stage
	Connections	8' (2.4 m) AC power cord, 6' (1.8 m) DC charging cable, connections for pump, operation switch, high water switch
Battery Box	Construction	Non-corrodible plastic
	Safety	Snap tight lid, keeps battery safe and clean

* When AC power is available, DC Pump operation does not deplete battery.

SERVICE PARTS



Model 508 Spin™			
Item	Description	Qty	508-C 02/19 thru Current
1	Pump 12 V DC / backup (service part)	1	155652
2	Flapper asm, (service part)	1	152970
3	Fitting, asm & clamp "508" (service part)	1	152969
4	Fitting, PVC 1-1/2" (DN40) tee/SCH 40 (pressure fitting)	1	153766
5	Valve, check / 1.5" (DN40) Inline / vertical	1	153772
6	Operational float	1	155654
7	Clamp, #28 worm-SS (float switch)	2	004287
8	Spin™ controller	1	155978
9	Fuse, 30 amp automotive	1	016918
10	Optional high water float, NC	1	10-4830
11	Battery box asm (box and cover)	1	10-0764
12	Hardware pak, charger / switch mode	2	152864

PERFORMANCE

The DC pump performance at 12.7 Vdc

Discharge Feet of Head	5 (1.5 m)	10 (3 m)	15 (4.6 m)	28 (85 m)
Flow GPM (LPM)12.7 Volts	43 (163)	35 (132)	27 (102)	Shut-off Head

The DC controller is equipped with a charger for maintaining the battery in a ready state and recharging the battery after use when AC power is restored. Time for recharge depends upon the amount of power consumed by the pumping cycle during the AC power interruption. The pump may go back to the ready run position in a very short period of time. A completely drained battery may require up to 24 hours for full recharge. If battery does not charge properly, the LED battery will flash red.

BATTERY SELECTION

The DC emergency pump system requires a good quality, 12 volt battery to obtain maximum pumping time during a power outage. A deep-cycle, 12 volt, 90 amp-hour or larger marine battery is recommended. A 100+ amp hour battery will provide approximately 5.5 hours or more of continuous pumping time in a sump pump installation with 8' (2.4 m) of head pressure. In most installations, the pump runs intermittently and the battery life is extended accordingly. Batteries with top terminals are recommended for ease of installation. "Wet" cell batteries contain acid, and proper precaution must be taken when handling. Battery box will accommodate a maximum battery size of 13-1/2" (34.3 cm) Length x 7" (17.8 cm) Width x 9-1/2" (24.1 cm) Height. AGM batteries also recommended. Do not use gel batteries or automotive batteries.

INSTALLATION

- The preferred method of installation for backup pumps is shown in Figure 1. The installation kit includes the parts needed to install as in Figure 1. A check valve is incorporated in the discharge of the backup pump.
NOTE: Do not install in small spaces where the controller will not be properly cooled. Do not operate in > 80 °F environment.
- Remove all parts from the shipping carton, and make sure all parts are included. Refer to the parts list on page 3.
- Select a location for the battery and the controller. The controller must be within 8' (2.4 m) of a 115 V wall outlet and within 6' (1.8 m) of pump and basin. We recommend the primary sump pump and the controller be on separate circuits.
- If the primary pump is installed, disconnect power.
NOTE: Discharge piping must be 1-1/2" SCH 40 PVC
- Remove the discharge pipe from the pump and place it aside.
- Screw check valve assembly into the primary pump discharge. Ensure the O-ring is properly located on the check valve. Press the slotted end of the discharge tee onto the check valve and secure with a hose clamp. Soapy water is recommended as a lubricant.
NOTE: The tee must be pushed all the way down onto the check valve to prevent leaking. Place the hose clamp at the bottom edge of the tee so that the slotted sections can sufficiently tighten around the check valve.
- Solvent weld the discharge reducer fitting to the discharge tee as

shown in Figure 4. Ensure the O-ring is properly located on the pump discharge. Slide the DC pump into the fitting, and tighten the hose clamp. Soapy water is recommended as a lubricant.

NOTE: The pump must be pushed all the way into the fitting to prevent the fitting from leaking. Place the clamp at the edge of the fitting so that the slotted sections can sufficiently tighten around the pump discharge.

- Measure, cut and solvent weld any remaining discharge piping above the tee.
NOTE: Check float operations to ensure the hose clamp screws will not interfere with the float operation of the primary pump.
- Assemble the operational float assembly per Figure 3. Install float switches as seen in Figure 1. The top rubber stop is not needed unless the "on" level needs to be lowered.
- Install the operational float switch bracket above the "on" level of the primary pump using the clamp provided. Make certain the clamp is tight on the pipe to avoid slippage. Ensure that the "off" level of the float is 1" (2.5 cm) minimum above the outlet of the DC backup pump. Position the pumps in the sump and move float up and down, ensuring free movement without interference from any obstructions inside the sump or lid. The float switch can be moved on the discharge pipe, or the rubber stops can be adjusted as necessary. The top rubber stop is usually not needed. Cut off any extra float rod length below lower

float stop to prevent debris from interfering with float operation. Install the high water switch with the "on" level set at least 1" (2.5 cm) above the "on" level of the operational float using the supplied clamp. Move the switch up and down, ensuring free movement without interference from any obstructions inside the sump or lid.

11. Install the Spin Controller (see Figure 3) by using the anchors provided. For best cooling, install wall mount configuration. The controller should be located at least 3' (1 m) above the sump.
12. Connect the leads from the controller to the battery terminals. Positive (+) lead to positive terminal and black neg. (-) lead to negative battery terminal.

⚠ CAUTION Correct battery hook-up is essential for operation of the system. Use wing nuts supplied with battery and eyelet connectors on battery wire leads. The positive terminal is the

larger stud, 3/8" (10 mm) diameter. The smaller stud, 5/16" (8 mm) diameter is the negative terminal. The stud sizes on some batteries may be identical. Apply grease to the terminals to help prevent corrosion. Tighten slightly past finger tight with a wrench. Always use extreme caution around batteries. Be careful not to "cross" or "short across" the battery terminals with your wrench or any other metal object.

13. Connect the DC pump's plug into the controller terminal.
14. Plug the controller into the 115 V wall outlet. The primary sump pump and the controller should be on separate circuits.
15. Reconnect power to the primary sump pump.

INITIAL START-UP AND OPERATION

It is important to understand that the Spin controller is an advanced technology product that has capabilities beyond those seen in other battery backup products. For those unfamiliar with the product, behaviors in the Spin may initially seem unusual. For example, the controller is able to recognize potential air lock situations and remedy with an on/off/on/off/on routine proven to purge the problematic air from the pump. Further, advanced float logic enables the controller to sense other pumping issues such as a stuck float, allowing the system to take actions to prevent damage to equipment.

The LEDs have specific patterns and behaviors that differ from other products on the market. For example, the DC Pump LED will stay Yellow after pumping water, alerting the homeowner of a DC pump-run event. If the pump runs and does NOT pump water (for example when lifting the float manually as a test with the pump above the waterline), the LED will not stay Yellow. This is meant to be an aid to the installer in order to test the pump without having to reset it each time.

When either float is disconnected, the alarm will sound and the Red Float Status LED will blink indicating that the float state has changed. Disconnecting the high water float will cause the pump to run. If there is an operational float fault diagnosed by the controller, you may notice that it no longer turns the pump on and off. This is because the sequence of prior events indicated that the operational float can't be trusted (such as lifting the high water float while the operational float is down – this is illogical to the controller since water would always lift the operational float first), and the controller will rely on input from the high water float. Since the high water float does not have a sufficient pumping range, the controller will turn the pump "off" once 30 seconds have elapsed or the pump begins spinning in air. The Spin offers true redundancy for pump operation that competitor's products do not have.

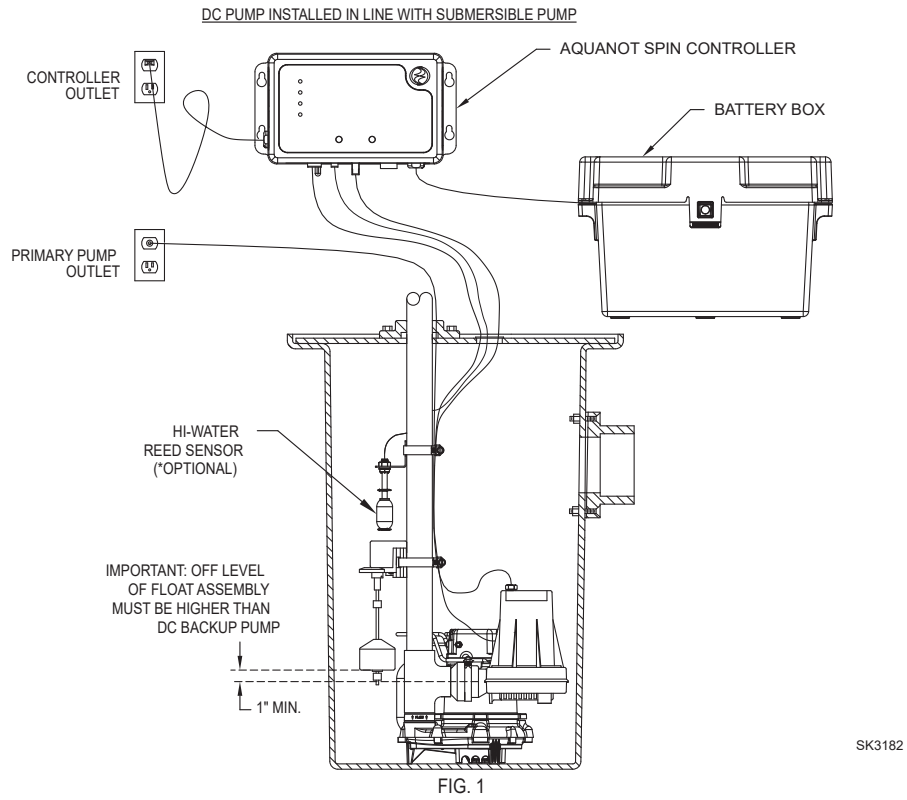
Before leaving the installation site, the installer must initiate a Reset by holding the Silence button for 3 seconds. This will ensure that all systems are in a standby, ready state.

1. Test the installation for leaks by running water into the sump, allowing for normal operation of the primary pump.
2. Check the controller. The System Ready light will be green when the unit is plugged into the 115 V wall outlet. The battery will indicate its condition when the controller has DC power. When the unit is first plugged in, all lights will flash and alarm will sound to verify all lights and the alarm work. The Spin controller powers up expecting the operational switch to be connected. There is an optional high water float switch available also. If one or both float switches are not connected, there will be various alarms depending on what is connected. If this occurs, simply plug in both switches and then reset the alarms by holding the Silence button for 3 seconds. Note that the charger may not begin charging for several minutes.
3. Disconnect the primary pump from its power source before touching any component in the sump pit.
4. Lift the Spin's operational float switch. After 1 second "splash activation prevention" delay, the DC backup pump will run, and the alarm will sound after 1 more second. Lower the operational float switch after the alarm sounds. Take care that the intake of the DC pump is set above the intake of the primary pump. If water was pumped, the Yellow DC Pump LED and alarm will remain on, indicating that the pump ran and pumped water. The alarm can be silenced by pressing the Silence button. The yellow LED can be cleared by holding the Silence button for 3 seconds to reset. If the operational float is held on while there is no water to pump, the controller will turn the pump on and off a few times before running the pump continuous. This is to purge a suspected air lock. When the float is lowered, the pump will turn off, but the yellow DC Pump LED will not persist. The yellow DC Pump LED and alarm only stay on if the pump actually pumps water. The intention of this behavior is so the installer can turn the pump on and off for testing during installation without repeatedly having to reset the controller. If the operational float is removed/unplugged, there will be an alarm and a red flashing Float Status LED until silenced or remedied. If the operational float was never installed, the alarm and red flashing Float Status LED will occur for 4 hours and then turn off. If there is a need for the controller to disregard the operational float (for example, service or replacement), a Factory Reset can be initiated. Unplug the operational float and then hold the Test and Silence buttons together for 6 seconds. This will instruct the controller to NOT alarm for the missing operational float and reset the unit.
5. Optional High Water Float Switch. Check installation of the high water switch taking care that it is installed so that its "on" point is higher than the "on" point of the operational switch. Lift the high water float. After 1 second "splash activation prevention" delay the pump will turn on, the alarm will sound, and the light will alert of high water. If the operational float is down, and the DC pump is underwater, the pump will run until the float lowers and the pump is no longer pumping water, or the run timer expires. A float fault LED will be lit. During a float fault, the operational float is disregarded until the controller is reset. If the operational float is up during high water, unit will alarm and high water float light will illuminate. The pump will turn off once water is pumped lower than the operational float.

If the high water float is held on while the operational float is down and there is no water to pump, the controller will turn the pump on and off a few times before running the pump continuously. This is to purge a suspected air lock. If the high water float is removed/unplugged, the resulting controller and pump behaviors are the same as if it was turned "on". The alarm and red Float Status LED will be on until silenced and reset, respectively. If there is a need for the controller to disregard the high water float (for example, service or replacement), a Factory Reset can be initiated. Unplug the high water float and then hold the Test and Silence buttons together for 6 seconds. This will instruct the controller to NOT alarm for the missing high water float. When a new high water float is received, simply plug it in and the controller will see it and monitor it from that point forward.
6. Complete the final testing of your installation by ensuring the primary pump is still disconnected from power. Then, unplug the Spin controller from the 115 V wall outlet. Run water into the sump until the DC backup pump is activated by the operational float switch. Check all connections for leaks.
7. Push the Silence button when the pump is running. This will silence the alarm. The pump will continue to run until the operational float is deactivated.
8. Reconnect the controller and the primary pump to the AC wall outlets. The primary pump may come on, lower the water level in the sump back to its normal operating level, and shut off. Both primary and backup systems are now ready for use. Hold silence button for 3 seconds to reset the Fit controller.
9. The battery LED will be yellow during normal charging operation. See page 6 and 7 for a description of controller functions.

NOTE: When running the pumps, it is normal for a stream of water to spray out of the pump's 1/8" (3 mm) air relief hole.

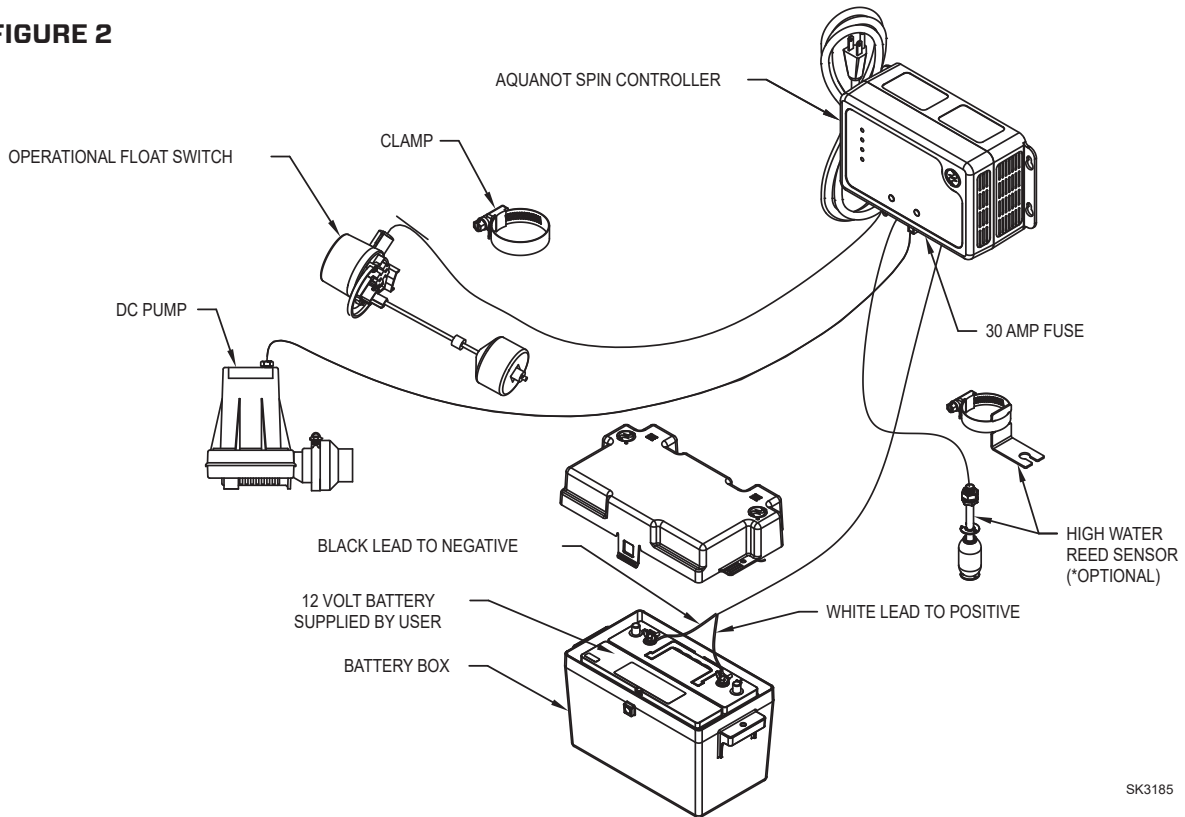
FIGURE 1



⚠ IMPORTANT To minimize risk of air lock, intake of DC pump must be set above intake of primary pump.

EXPLODED VIEW - DC PUMP

FIGURE 2



AQUANOT® SPIN™ FLOAT SWITCH

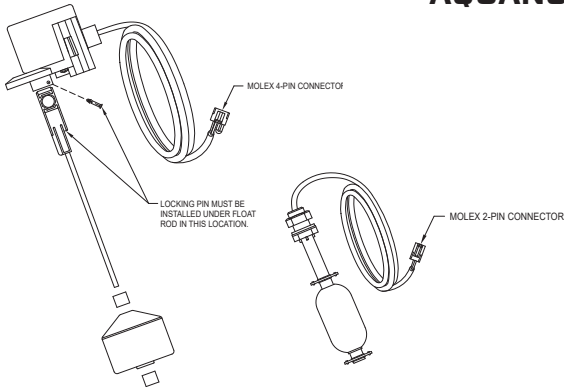


FIGURE 3

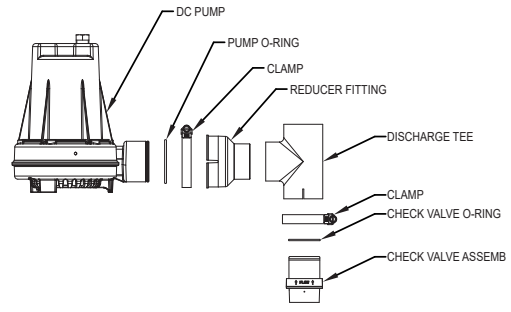
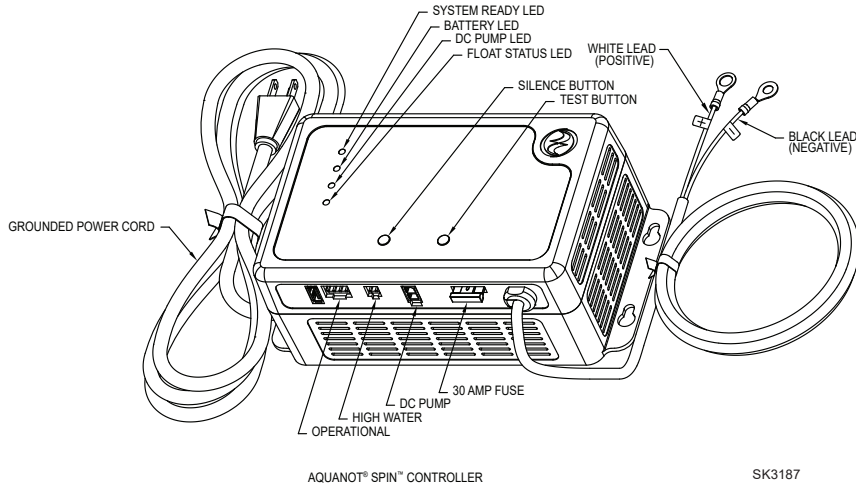


FIGURE 4



AQUANOT® SPIN™ CONTROLLER

SK3187

SPIN™ CONTROLLER FUNCTIONS

There are two buttons on the front of the controller.

• Silence/Reset

- Can be pressed to silence current alarms for 24 hours.
- Can be held for longer than 3 seconds to reset alarm. Reset will clear flashing light on unit.

• Test

- Will run the pump to determine if amp draw of pump is in range.
- Controller is factory programmed to self-test the pump for several seconds every 24 hours.
- Pressing the test button will start the 24-hour timer for self-testing.

Note: Holding both the silence/reset and test button at the same time for 5 seconds will cause a factory reset on the controller.

The LEDs will display information about the controller.

AQUANOT® SPIN™			
	Solid	Flashing	Off
System Ready	No Faults (Green)	AC off with no faults (Green)	--
Battery	Charged (Green)	Low Battery (Red)	No AC Power
	Charging (Yellow)		
	Bad Battery (Red)		
DC pump	Pump Ran (Yellow)	Pump Running (Yellow)	--
		Pump Fault (Red)	
Float Status	*High Water (Red) Sensor Activated	Float Fault (Red)	--

* If optional high water reed sensor is being used.

MAINTENANCE

- Inspect and test the system for proper operations at least every 3 months.*
 - Green "system ready" indicator light should be on, indicating AC power is on and there are no alarm conditions.
 - Unplug the primary pump and the controller from the power supply.
 - Fill the sump with water to the "on" level for the DC pump. Allow the pump to run a few minutes.
 - The alarm will sound approximately 1 second after the pump starts to run.
 - Push the Silence/Reset button. The alarm will turn off.
 - The pump will shut off after the water level is lowered and the float drops to the "off" position.
- Plug the controller and the primary pump into the wall outlet.
 - The primary pump will come on, lower the water to the normal operating level and shut off.
 - The battery light will be yellow when charging. The charger is replacing the energy consumed during the test. The green light will come on after the charger has replaced the energy consumed during the test.

*Electrolyte levels in wet cell batteries should be checked monthly. Such a check is not required for "maintenance free" battery types.

TROUBLESHOOTING INFORMATION

- DC pump won't run.
 - Check for proper connections.
 - Check all wire terminal points. Clean if required.
 - Check for low battery. Service battery if required.
 - Check 30 amp fuse on controller (see fig. 3). If fuse is blown, replace with 30 amp automotive blade fuse.
- Pump runs but pumps very little or no water without AC power.
 - Check for low battery. Battery will recharge if green power "on" light indicates power has been restored and the float switch is in the off position.
 - If immediate usage is required, remove and replace dead battery with a full recharged battery.
 - Due to varying conditions the pump may continue to run on a low battery without sufficient power to remove water. Pump will not stop running until battery is below minimum voltage.
 - CAUTION** Weak batteries can be recharged but may not store sufficient energy for full service. A weak recharged battery can only be detected by reduced pumping time or by professional load testing equipment. If your emergency pump system is used frequently the battery should be checked by a qualified battery dealer.
- Pump runs but pumps very little or no water.
 - Verify pump is connected completely.
 - Check to make sure pump weep hole is clear and unit is not airlocked.
 - Make sure discharge piping is not blocked.
- Pump cycles too frequently.
 - Check positions of rubber stops on operational float rod.
 - Adjust upper rubber float stop as required. Recommended for standard installation.
- Float switch in "on" position for more than 3 seconds. Pump won't run.
 - Remove pump. Check for obstruction in pump preventing impeller from rotating.
- Pump runs, but pumps water intermittently.
 - Pump is air locking. Check flow of water incoming to sump. If water is entering the sump at a high velocity creating a turbulent condition, a mixture of air and water may cause a complete or partial air lock and reduce or stop the flow of water in the discharge pipe.
 - Baffle the incoming stream of water to reduce turbulence. Diverting water stream against wall of basin usually corrects an air lock problem.
- Water level stays high. DC Pump continues to run.
 - Battery is low.
 - If power has been restored and water in sump remains high check primary pump. Service if required.
 - After several hours the battery will be restored to full charge.
- Alarm sounds during battery recharge cycle.
 - To silence alarm if alarm will not reset, unplug the charger from 115 V wall outlet, then disconnect the black lead from charger on negative (-) battery post. Check battery. Replace if necessary. Reconnect and refer to Installation (step 11).

THE AQUANOT® BATTERY

There are millions of batteries manufactured each year, so it is impossible to guarantee consistent quality. A defective battery will never become fully charged and may damage the charging circuits of the Controller. It is for this reason that Zoeller Pump Company offers its own line of batteries. We offer both a water/acid deep-cycle battery and a maintenance-free A_GM battery which can run the pump continuously for over 5 hours. These times are based on continuous pumping at 8' (2.4 m) of static head. Actual times will vary depending on static head, volume of water entering the pit, and the condition of the battery.

Follow these recommendations:

- Use a B.C.I. size 27 deep-cycle battery, 175 minute reserve capacity, or larger
- Do NOT use a "maintenance-free" battery unless it is an AGM battery
- Replace your battery every 3 years
- Do not let corrosion build up on the battery terminals
- To check specific gravity, follow the instructions on a hydrometer (wet cell batteries only)
- Use of the included plastic battery box is recommended to keep the battery safe and clean.

PROTECT YOUR WARRANTY:

- Water level in batteries must be checked once a month (wet cell batteries only)

CARBON MONOXIDE DETECTORS

Whether you have an Aquanot® Backup Pump System or a competitive brand, all use batteries that give off gaseous by-products when charging. Some of these by-products can produce a rotten egg odor. Also, some of these by-products can cause a CO detector to falsely activate. In order to help prevent false activation, Zoeller Pump Company recommends moving the battery as far away from the CO detector as possible or, if necessary, vent the battery to the exterior. Zoeller Pump Company provides the previous statements only as guidelines to help prevent false activation of the CO detector. In no way are they meant to supersede the instructions that accompany the detector, nor do they supersede advice from the CO detector manufacturer.

If the audible alarm associated with your CO detector is activated, we recommend the following actions:

- Take immediate action for personal safety as recommended in the CO detector literature.
- Contact the appropriate agency to determine if the CO is being produced by your furnace, water heater, or any other device which uses natural gas.
- If you are certain that no CO is being produced, a charging battery may be producing gaseous by-products which are causing the CO detector to activate. Contact the manufacturer and ask for recommendations to prevent the alarm activation.

