



Instruction Manual & Safety Warnings

Combination Primary and Backup Sump Pump System Model CITS-50

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This manual is for the systems that have the BWSP-A backup controller, which accommodate maintenance free batteries. See pages 2-6 for additional information.



Scan the QR code for more information about the CITS-50 Combination Sump Pump System

IMPORTANT: Even if you have the Basement Watchdog sump pump system installed by someone else, you must read and follow the safety information contained in this manual. Failure to do so could result in property damage, serious injury, or death.

Important Safety Warnings & Instructions

SAVE THESE INSTRUCTIONS. This manual contains important SAFETY WARNINGS and OPERATING INSTRUCTIONS for the Basement Watchdog combination sump pump system. You will need to refer to it before attempting any installation or maintenance. **ALWAYS** keep these instructions with the unit so that they will be easily accessible.

FAILURE TO read and follow these warnings and instructions could result in property damage, serious injury, or death. It is important to read this manual, even if you did not install the Basement Watchdog combination sump pump, since this manual contains safety information regarding the use and maintenance of this product. **DO NOT DISCARD THIS MANUAL.**

ELECTRICAL PRECAUTIONS

⚠ WARNING

This installation must be in accordance with the National Electric Code and all applicable local codes and ordinances.

⚠ DANGER

Risk of electrical shock and fire hazard. May result in death, serious injury, shock or burns. To help reduce these risks, observe the following precautions:

DO NOT WALK on wet areas of the basement until all power has been turned off. If the main power supply is in a wet basement, call an electrician.

ALWAYS DISCONNECT the pump from the power source before servicing or making adjustments.

ALWAYS UNPLUG the control unit and disconnect the cables from the battery before attempting any maintenance or cleaning.

NEVER HANDLE the pump or motor with wet hands or when standing on a wet or damp surface while the pump is plugged into the power source.

MAKE SURE THERE IS A PROPERLY GROUNDED RECEPTACLE AVAILABLE. This pump is wired with a 3-prong grounded plug. To reduce the risk of electric shock, be certain that it is only connected to a properly grounded 3-prong

receptacle. If you have a 2-prong receptacle, have a licensed electrician replace it with a 3-prong receptacle according to local codes and ordinances.

NEVER BYPASS grounding wires or remove the ground prong from the plug.

DO NOT USE an extension cord. The electrical outlet should be within the length of the pump's power cord, and at least 4 feet above the floor level to minimize potential hazards from flood conditions.

DO NOT USE an attachment not recommended or sold by the manufacturer. It may result in a risk of fire or injury from an electrical shock.

DO PROTECT the electrical cord from sharp objects, hot surfaces, oil and chemicals. Avoid kinking the cord.

MAKE SURE THE supply circuit has a dedicated fuse or circuit breaker rated to handle the power requirements noted on the nameplate of the pump.

CAUTION

To reduce the risk of hazards that can cause injury or property damage, observe the following precautions:

DO NOT use the power cord or strain relief to carry the pumps. Use the handle.

DO NOT pull on the float switch cords.

DO NOT pull on the cord to disconnect the system or the pump. Pull the plug.

DO NOT expose the control units to water, rain or snow.

DO NOT place the control units on the floor. The electrical outlet should be within the length of the pump's power cord, and at least 4 feet above the floor.

DO NOT operate the pumps or control units if they have been damaged in any way.

DO NOT use pumps in pits handling raw sewage, salt water, or hazardous liquids. This product is for ground water use only.

DO NOT disassemble the pumps or control units. When service is required, contact Glentronics' technical support at 800-991-0466, option 3. Return the product to the manufacturer for any repairs at the following address:

Glentronics, Inc., ATTN: Repairs
645 Heathrow Drive, Lincolnshire, IL 60069

BATTERY PREPARATION

⚠ WARNING / POISON

Sulfuric acid can cause blindness or severe burns. Avoid contact with skin, eyes or clothing. In the event of accident, flush with water and call a physician immediately. KEEP OUT OF REACH OF CHILDREN.

To help reduce these risks, observe the following precautions:

- Someone should be within range of your voice or close enough to come to your aid when you work near a lead-acid battery.
- Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing or eyes.
- Wear eye and clothing protection and avoid touching your eyes while working with battery acid or working near the battery.
- If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters eye, immediately flood eye with running cold water for at least 15 minutes and get medical attention.

⚠ WARNING: Battery posts and terminals contain lead, lead compounds or chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling. See www.p65warnings.ca.gov for more information.

BATTERY PRECAUTIONS

⚠ DANGER

Explosive gases could cause serious injury or death. Cigarettes, flames or sparks could cause battery to explode in enclosed spaces. Charge in well-ventilated area. Always shield eyes and face from battery. Keep vent caps tight and level.

To help reduce these risks, observe the following precautions:

- **NEVER** smoke or allow a spark or flame in the vicinity of the battery.
- Use the Basement Watchdog control unit for charging a LEAD-ACID battery only. **DO NOT** use the control unit for charging dry-cell batteries that are most commonly used with home appliances.
- Be sure the area around the battery is well-ventilated.

- When cleaning the battery, first fan the top of the battery with a piece of cardboard or another nonmetallic material to blow away any hydrogen or oxygen gas that may have been emitted from the battery.
- **DO NOT** drop a metal tool onto the battery. It may spark or short-circuit the battery and cause an explosion.
- Remove personal metal items such as rings, bracelets, watches, etc. when working with a lead-acid battery. A short circuit through one of these items can melt it, causing a severe burn.
- **ALWAYS** remove the charger from the electrical outlet before connecting or disconnecting the battery cables. *Never allow the rings to touch each other if one is connected to the battery.*
- Check the polarity of the battery posts. The POSITIVE (+) battery post usually has a plus sign near it and the NEGATIVE (-) post has a minus sign nearby.
- When connecting the battery cables, first connect the large ring on the end of the RED wire to the POSITIVE (+) post of the battery, then the small ring on the end of the BLACK wire to the NEGATIVE (-) post of the battery.



- **ALWAYS** keep the cover secured on the battery box by slipping the tabs through the fittings on the front and back of the box. **DO NOT** place anything on top of the battery or battery box cover.

⚠ DANGER

Do not use system to pump flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc.

DO NOT use this system in pits handling raw sewage or other hazardous liquids.

Introduction

The Basement Watchdog combination sump pump system is designed to provide both primary and backup pumping capabilities. The primary pump will operate as long as it is receiving AC power. If the power is interrupted, or more water is coming into the sump than the AC pump can handle, the backup sump pump will begin pumping automatically. The backup system has unique monitoring features that diagnose a problem and sound an alarm. A light on the display panel of the control unit will indicate the cause of the alarm and the corrective action. The two systems have been pre-assembled for easy installation.

For added reliability, the float switches have, not one, but two floats. Should one float fail to operate, the second float automatically activates the pump.

The Basement Watchdog Sump Pump System includes:

- A ½ HP primary pump with a caged dual float switch, and a blue piggyback controller that plugs into the wall outlet
- A black backup pump supported by a bracket
- A black control unit for the backup pump, a dual float switch, and battery cables
- Two cable ties to secure the wires to the discharge pipe
- A battery charger
- A rubber union

You will also need to supply:

- A Basement Watchdog Maintenance Free (AGM) Standby Battery.*

* Basement Watchdog standby batteries are specifically designed to work with your battery backup sump pump system. Glentronics can not guarantee the compatibility of other brands of batteries. For optimal performance the use of a Basement Watchdog standby battery is recommended.



For some installations you may also need additional items:

- 1½" rigid PVC pipe
- A 1½" PVC pipe connector or a 1½" rubber union
- PVC pipe primer and cement



To connect two batteries you will need:

- Two (2) batteries of same type, age and capacity (so they will have equal power and charge properly). **DO NOT** use batteries of different types, ages or capacities.
- Another battery box
- A set of battery cables with ring lugs on both ends to connect the two batteries together (available from Glentronics, Inc. Model PJC)



System Specifications

Power supply requirements 115 volts, 60 Hz
 AC pump pumping capacity 3,540 GPH @ 10'
 DC pump pumping capacity 1,850 GPH @ 10'
 Overall dimensions (w/o union) 12" W x 19½" H
 Pump housings and strainers:

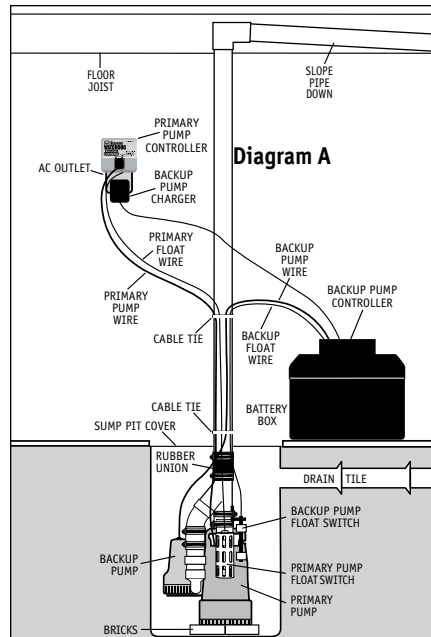
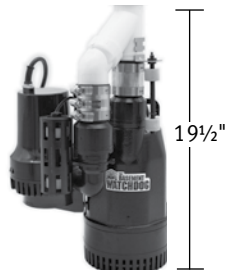
- Primary - Cast iron housing with noncorrosive strainer
- Backup - Noncorrosive housing and strainer

Installing the Pipe and Pump

The Basement Watchdog combination system is compact and will fit in a sump pit as small as 12" wide and 15" high (the size of a 5 gallon bucket). It measures 19½" inches from the bottom of the pump to the top of the Y-connector where it will be attached to the discharge pipe.

Use a pit that conforms to all local codes, and check the code to see if a gate valve or ball valve is required.

The path of the existing vertical discharge pipe to an exterior wall should have the shortest path with the fewest turns. More turns will reduce the pumping capacity. The horizontal discharge pipe must be positioned in a downward slope when it exits the building, so any remaining water will drain away. Failure to do this will prevent water from exiting the pit and damage the



pump if the line freezes. (see **Diagram A**)

The system should be placed on a flat surface free from dirt and debris. If the bottom of the sump pit is not clean, remove as much of the debris as possible. You should place a pump stand or bricks on the floor of the sump pit to raise the pump above the debris.

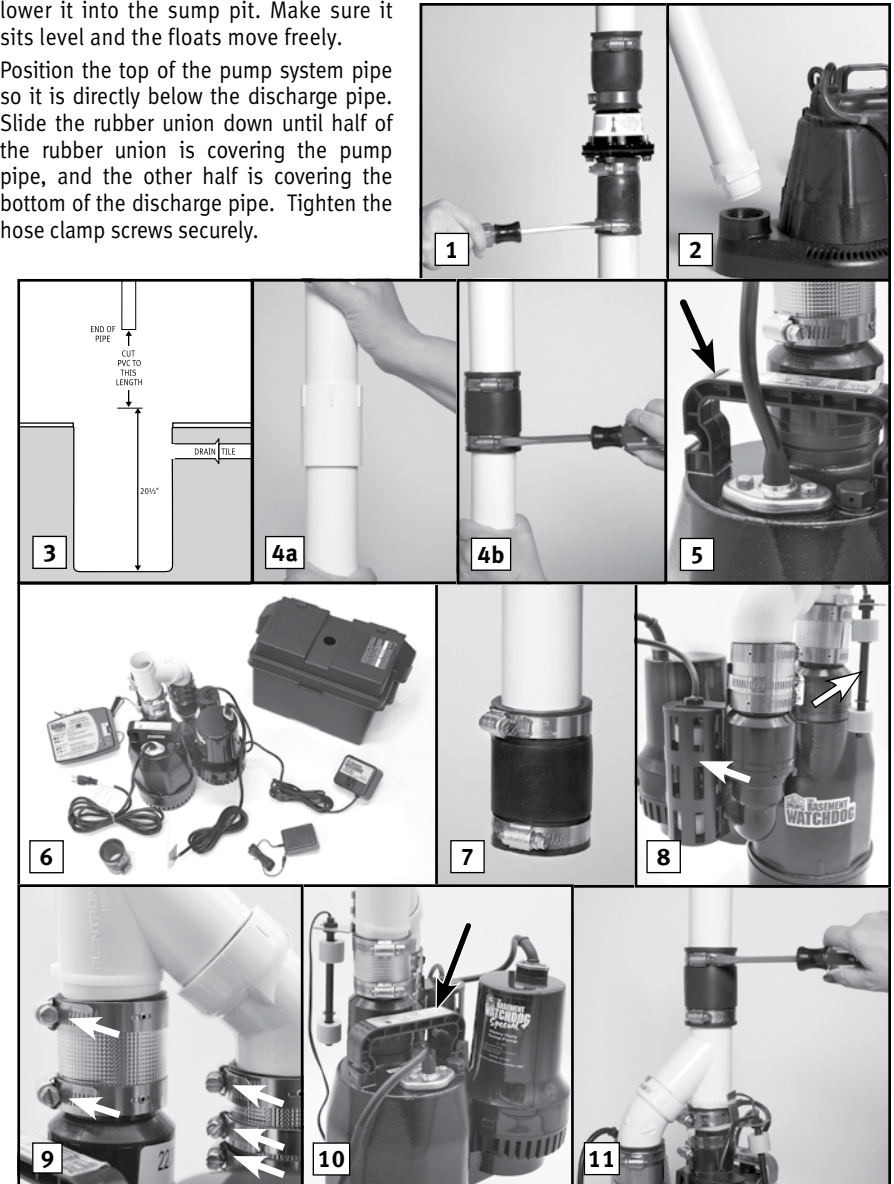
If you are replacing an old sump pump, unplug the pump from the outlet.

1. Remove the check valve or rubber union. Discard the check valve. The Basement Watchdog system contains built-in check valves, so the old valve will not be needed. If the existing system is installed without a check valve or rubber union, saw the pipe apart 20½" from where the new sump system will rest. (Refer to the diagram in step #3.)
2. Remove the old pump from the pit and unscrew the pipe and pipe adapter from the pump.
3. The existing discharge should be cut or added on to so that the distance from the bottom of the sump pit (or from the top of the bricks/stand in the sump pit) to the end of the existing discharge pipe is 20½".
4. (a) If adding length to the discharge pipe be sure to cement the two pieces together with a 1½" PVC pipe connector. (Follow the instructions on the PVC primer and cement.) OR (b) connect the two pieces of pipe together with a rubber union.
5. Remove the pump from the carton; lift using the strap. Cut the strapping and then remove the battery box and packing materials. Pick up the pump assembly by grabbing the handle of the larger black primary pump and lifting up. **DO NOT** lift the assembly by grabbing any of the pipes or wires; they may break.
6. Separate the attached cords and controllers and place them next to the pump system. **BE SURE THE CORDS AND CONTROLLERS DO NOT FALL INTO THE SUMP PIT DURING THE INSTALLATION.**
7. Loosen the hose clamps on the enclosed rubber union, and slide the union up onto the existing discharge pipe until it is even with the bottom of the pipe.
8. Inspect the two float switches. Both

should both be vertical and positioned so that they move smoothly without hitting the pump or the wall of the sump pit.

9. Inspect all of the screws on the hose clamps of the no hub couplings (primary and backup pumps). They should be tight.
10. Lift the combination system by the handle on the larger black primary pump and lower it into the sump pit. Make sure it sits level and the floats move freely.
11. Position the top of the pump system pipe so it is directly below the discharge pipe. Slide the rubber union down until half of the rubber union is covering the pump pipe, and the other half is covering the bottom of the discharge pipe. Tighten the hose clamp screws securely.

A pit cover is recommended for all installations as a safety measure and to prevent debris from falling into the pit. Place the cover on top of the pit, making sure not to pinch or crimp the pump wires with the cover. The pit cover usually has an existing hole that will allow the cords to be passed through it, or you can drill a hole in the cover.



Basement Watchdog Battery

The Basement Watchdog battery has been designed to run this system for 60 hours, based on a 10% duty cycle. However, most of the time the pump will turn on and off, and this battery will run the pump intermittently for days. In addition, the unique materials in the Basement Watchdog Standby batteries enable them to last longer in standby service.

NOTE: The battery will not run the primary pump.

NOTE: Runtimes will vary based on inflow of water.

CAUTION

- The use of automotive batteries is NOT recommended. Automotive batteries are not designed for this application. They will only run the pump for a short time and will have a shorter life than a standby battery.
- Basement Watchdog standby batteries are specifically designed to work with your battery backup sump pump system. Glentronics can not guarantee the compatibility of other brands of batteries. For optimal performance the use of a Basement Watchdog standby battery is recommended.

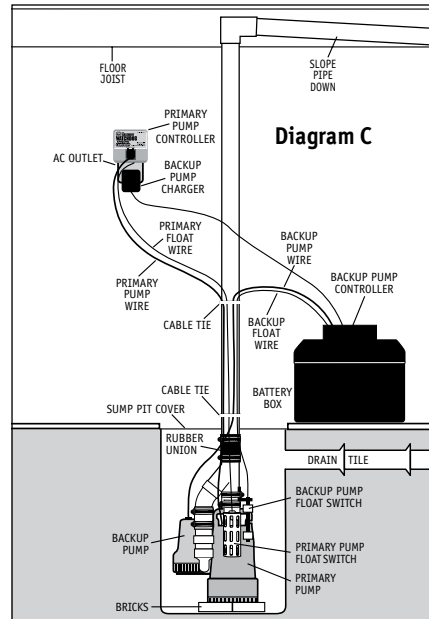
System Connections

⚠ DANGER

Risk of electrical shock or battery explosion, which can cause serious injury or death. Unplug the main AC pump to avoid electrical shock. Wear eye protection. Work in a well-ventilated area. Do not smoke or allow a spark or flame in the vicinity of the battery. Avoid dropping metal tools on the battery. If battery acid contacts eyes, flush with water for 15 minutes and get prompt medical attention. Review the safety instructions on page 1.

MOUNTING THE CONTROLLER

When you position the battery with the control unit on the top, be sure the charger cord will reach the AC power outlet, and the pump cable and float switch will reach the bottom of the sump. Position the unit in a well-ventilated area. (Diagram C)

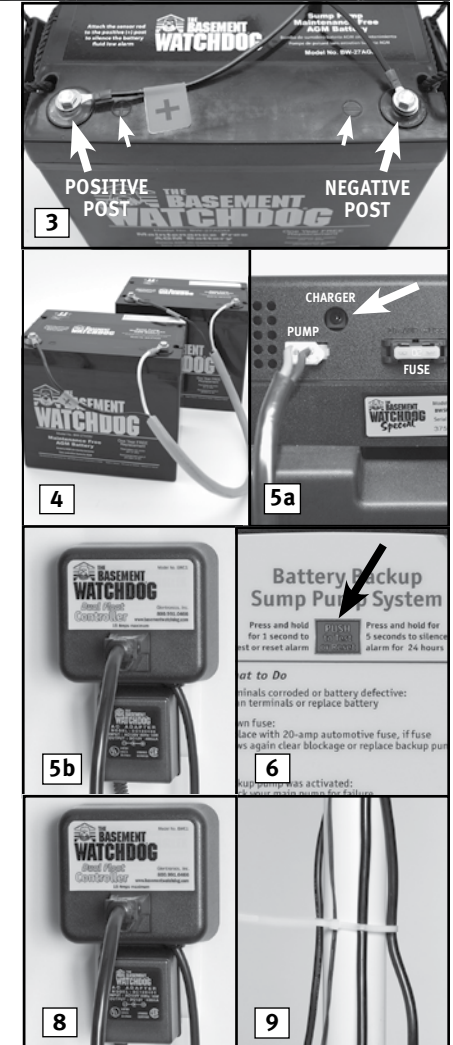


1. **Mounting the backup control unit:** (a) Thread the wires on the backup controller through the hole in the top of the battery box. (b) Secure the controller to the top of the battery box by lining up the Velcro strips and pressing them together.
2. **Connecting the backup pump:** Remove the security tag from the pump and plug the pump wires into the pump connector on the back of the control unit.
3. **Connecting the battery:** Remove the wing nuts or battery bolts from the battery terminals. Remove the security tag from the battery cables. Attach the battery cables to the battery... the RED wire to the POSITIVE (+) post then the BLACK wire to the NEGATIVE (-) post. Replace the wing nuts/bolts and tighten. *Note: Connecting the cables to the wrong posts will damage the controller.*
4. **Connecting two batteries:** If you are connecting two batteries to the system using the Glentronics Parallel Jumper Cable (PJC), before you replace the wing nuts/bolts connect the additional cable to the two batteries: the BLACK wires to the POSITIVE (+) posts/bolts and the WHITE wires to the NEGATIVE (-) posts /



bolts of each battery. **NEVER** attach one end of the positive wire to the positive post and the other end of the positive wire to the negative post on the other battery. (see Battery C on page 2)

5. **Connecting the charger:** Immediately plug the charger into the charger jack on the back of the control unit (5a), then into an AC outlet on the wall (5b).
6. If the pump alarm is sounding, press the square RESET button to silence the alarm.
7. Replace the cover on the battery box.
8. **Connecting the primary pump:** Plug the piggyback controller into a properly grounded 3-prong outlet. Then plug the primary pump into the receptacle on the controller.
9. For a neater installation, secure the cables from the controllers to the discharge pipe in a couple places with the additional cable ties. Make sure the wires are not touching each other or overlapping each other.
10. After the initial installation, be sure to check each pump for proper operation. To check the primary pump, fill the sump with water and observe the pump through several full cycles. The primary pump should run for 10 seconds after the lower float drops. To check the operation of the backup pump, manually raise the backup float and let it go. The backup pump will run for approximately 25 seconds. After the backup pump has stopped, push the RESET button to silence the pump alarm.
11. A pit cover is recommended for all installations as a safety measure, and to prevent debris from falling into the pit. Place the cover on top of the pit making sure not to pinch or crimp the pump wires with the cover. The pit cover usually has



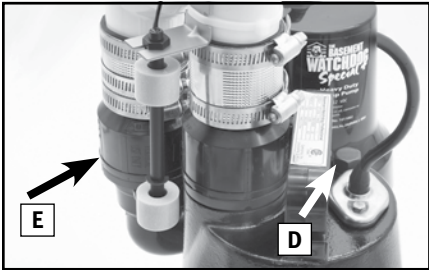
an existing hole that will allow the cords to be passed through it, or you can drill a hole in the cover.

Product Operation

The dual float switch on the primary pump contains two large floating rings enclosed within a protective cage. Water will lift the bottom float by 1/4" or so, which will activate the pump. If for any reason the lower float does not activate the pump, the water will rise to the second float, and it will activate the pump. As the pump evacuates the water from the pit, the floats will drop. The pump will run for an additional 10 seconds after the activating float drops to fully empty the pit. The blue Dual Float Controller sends power to the primary pump when it sees that the dual float is calling for action.

During a power outage, or when more water is entering the sump than the primary pump can handle, the backup pump will automatically begin pumping. It also has a dual float switch, so if one float fails to activate the pump the second float will activate the pump as soon as the water reaches that level. As the water recedes below the float switch, a timer in the control unit will run the pump an additional 25 seconds to evacuate the pit.

While the pumps are active, water will come out of the 3/16" weep hole located on the top of the main pump (D) and the 3/16" weep hole located in the check valve of the backup pump (E). This is normal. These holes are needed to prevent an air lock within the system. **DO NOT** obstruct the holes or an air lock may prevent the system from moving water. (See image below)



Batteries and sump pumps need maintenance. The control unit on the backup system monitors the battery and power conditions, and sounds an alarm when maintenance is required. Following is an explanation of the warnings and alarms.

Understanding the Warnings & Alarms

The control unit for the Basement Watchdog backup pump features a series of warning lights that pinpoint potential problems. In addition, an alarm sounds to alert you to the problem. In some cases the lights and alarm will go off automatically when the problem has been solved. In others, the RESET button must be pushed to reset the alarm. Refer to the table in the next column for a quick review of the features and their corresponding alarm status.

SILENCING THE ALARM DURING AN EMERGENCY

Refer to the diagram of the control panel at right.

The Basement Watchdog backup system allows you to silence some of the alarms during an emergency, however the warning lights will remain on until the problem is corrected.

- Press the RESET button on the front of the control panel for one (1) second to reset the “Pump” alarm, and silence the “Power” alarm for two (2) minutes.
- Press the RESET button for five (5) seconds to silence these alarms for 24 hours. A brief buzzing sound will notify you that the alarms have been silenced. The alarms will automatically reactivate in 24 hours if the warning condition still exists (i.e., the problem still exists)..

Warning	alarm can be silenced before problem is corrected	Alarm shuts off automatically when the problem is corrected
Battery	No	No, must push RESET button
Fuse	No	Yes
Pump	Yes	No, must push RESET button
Power	Yes	Yes



Battery Alarm – LED Light ①

This light and alarm will come on when the control unit detects there is not much pumping power left in the battery, or that the battery is defective. The alarm cannot be silenced because action needs to be taken to protect your basement. If your battery is more than five (5) years old, replace it. If not, here are several situations that would cause the pump to run the battery for an extended time and discharge the battery. Check the list below before you replace the battery.

- If the bottom light on the controller is also on, it means that the unit is not receiving AC power. Either the AC power is out, the circuit breaker has tripped, the outlet is bad, or the charger needs to be replaced. When the problem is corrected, the battery should recharge.
- If the third light on the controller is also on, check your main pump for failure. The backup pump may have been activated repeatedly if your main AC pump is broken, or you are experiencing heavy rains and your main pump cannot keep up with the inflow of water. You may need to upgrade or replace your main pump. When the

problem is corrected, the battery should recharge.

- If no other lights are on, this means the terminals may be corroded or loose, and the battery cannot charge properly. Unplug the charger from the wall outlet. Then, check the battery cables and the battery terminals for corrosion. Clean and tighten them as needed. The procedure is described on the next page.
- If the battery terminals have been cleaned and the light is still on, there could be a problem with the controller or the battery. The best way to determine if the battery is the problem is to have it charged and load tested at a local auto supply store, repair shop, or battery store. If the battery is bad and less than one (1) year old, it can be returned to the place of purchase for a replacement (receipt required). If the battery is good, contact Glentronics’ service department for further instructions. The phone number is 800-991-0466, option #3.

If the battery alarm goes on while the pump is running and the power is out, you will have (depending on the battery) a minimum of 30 minutes of continuous pumping time to

replace the battery. (In most cases, the pump does not run continuously, and therefore you actually have a longer time to replace it.) You will not be able to silence the alarm. Left unattended, the basement will flood. In a severe emergency, if a replacement battery is not available, you could temporarily use your car battery, or recharge this battery by connecting it to your car battery.

Once the AC power is restored, the battery will recharge automatically unless it is old or damaged. The alarm will remain on until the voltage is restored. Then, press the RESET button on the front of the control panel for one (1) second.

In the event that your Basement Watchdog sump pump system has pumped for an extended period of time, the battery may be very depleted. In this condition, when the AC power is returned to the unit, a battery alarm will continue to sound until voltage is restored to the battery and the reset button is pressed. The battery may need a longer period to recharge.

For a faster recharge, an automotive or marine battery charger can be used to recharge the battery. Follow the manufacturer's instructions and safety information included with the charger.

⚠ WARNING

When another charger is used, first disconnect the Basement Watchdog charger from the control unit, and then disconnect the control unit from the battery. Using another charger without disconnecting the control unit will destroy the control unit and void the warranty.

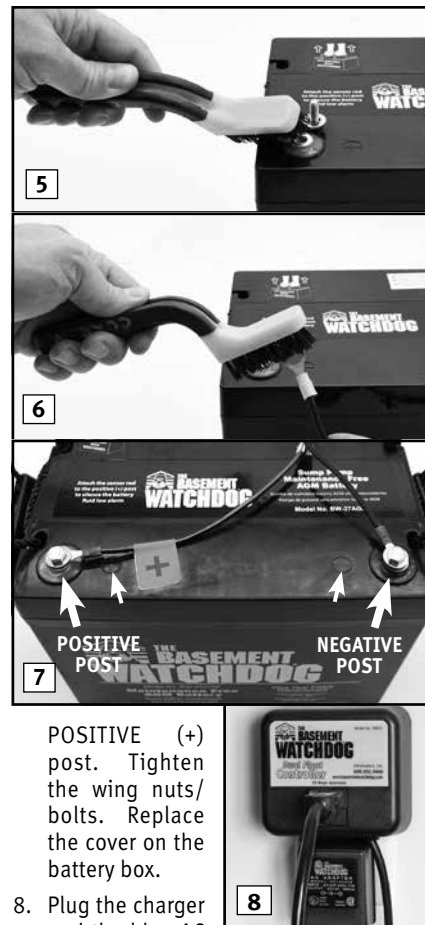
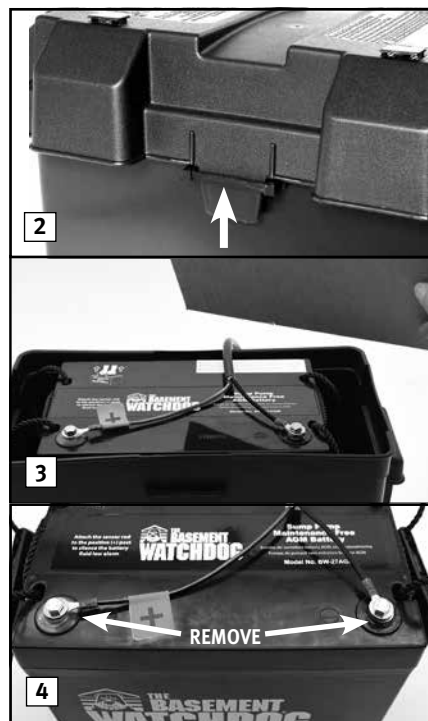
CLEANING THE BATTERY TERMINALS AND CABLES

⚠ DANGER

Risk of electrical shock or battery explosion, which can cause serious injury or death. Wear eye protection. Work in a well-ventilated area. Do not smoke or allow a spark or flame in the vicinity of the battery. Avoid dropping metal tools on the battery. If battery acid contacts eyes, flush with water for 15 minutes and get prompt medical attention. Review the safety instructions on page 2.

REFER TO THE PHOTOS AT RIGHT

1. Unplug the charger from the wall outlet and unplug the blue AC pump controller.
2. Remove the cover of the battery box by pushing in the tabs on the front and back, then lifting up.
3. Fan the area around the top of the battery with a piece of cardboard (or another nonmetallic material) to remove any hydrogen or oxygen gas that may have been emitted from the battery.
4. Unscrew the wing nuts/bolts. Remove the battery cables.
5. Clean the battery posts with a battery terminal cleaner or a wire brush.
6. Clean any corrosion off of the ring connectors on the ends of the battery wires. Use a stiff brush or sandpaper. **DO NOT** apply corrosion-resisting sprays or pads to the terminal rings or posts after you have cleaned them since this could prevent the system from charging properly.
7. Replace the battery cables, BLACK to the NEGATIVE (-) post and RED to the



POSITIVE (+) post. Tighten the wing nuts/bolts. Replace the cover on the battery box.

8. Plug the charger and the blue AC pump controller back into the wall outlet.
9. If any of the alarms are sounding, press the RESET button on the front of the control panel for one (1) second.

REPLACING THE BATTERY

⚠ DANGER

Risk of electrical shock or battery explosion, which can cause serious injury or death. Wear eye protection. Work in a well-ventilated area. Do not smoke or allow a spark or flame in the vicinity of the battery. Avoid dropping metal tools on the battery. If battery acid contacts eyes, flush with water for 15 minutes and get prompt medical attention. Review the safety instructions on page 2.

REFER TO THE PHOTOS AT RIGHT AND ON THE FOLLOWING PAGE

1. Unplug the charger and the blue AC pump controller from the wall outlet.
2. Remove the cover of the battery box by pushing in the tabs on the front and back, then lifting up.
3. Fan the area around the top of the battery with a piece of cardboard (or another nonmetallic material) to remove any hydrogen or oxygen gas that may have been emitted from the battery.
4. Unscrew the wing nuts/bolts and remove the battery cables.
5. Remove the old battery from the battery box and place the new battery in the box.
6. Clean any corrosion off of the ring connectors on the ends of the battery wires. Use a stiff brush or sandpaper. **DO NOT**





apply corrosion-resisting sprays or pads to the terminal rings or posts after you have cleaned them since this could prevent the battery from charging properly.



7. Replace the battery cables, RED to the POSITIVE (+) post, BLACK to the NEGATIVE (-) post. Tighten the wing nuts/bolts.
8. Replace the cover on the battery box.
9. Plug the charger and the blue AC pump controller back into the wall outlet.
10. If any of the alarms are sounding, press the RESET button on the front of the control panel for one (1) second.

Fuse Alarm — LED Light ②

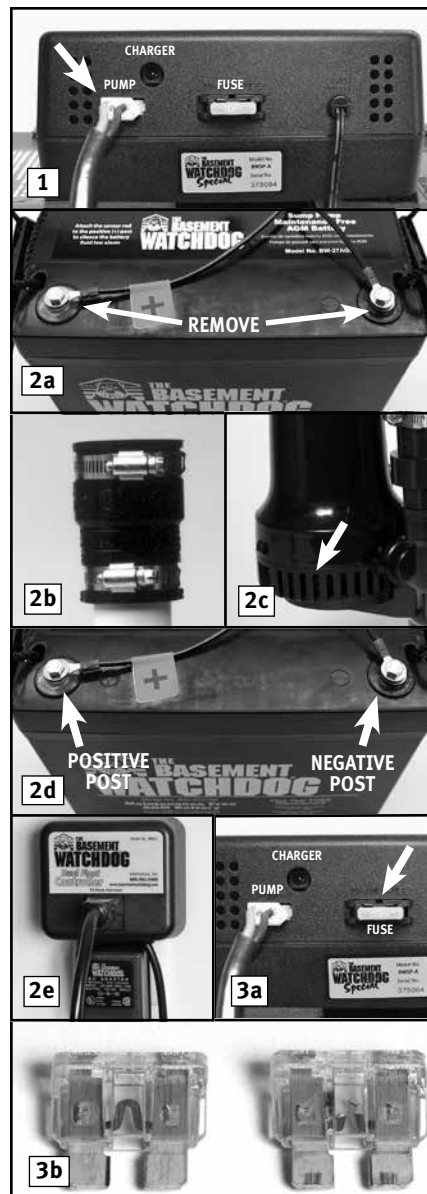


Unplug the main AC pump before servicing the backup pump to avoid electric shock. Failure to do so could cause serious injury or death.

This alarm indicates that the 20-amp safety fuse on the back of the control unit has blown. This can be the result of a clogged pump motor, shorted pump wires, or a seized pump motor. To determine the problem:

REFER TO THE PHOTOS AT RIGHT

1. Check the pump plug in the back of the unit to make sure it is firmly connected. Check the pump wires to make sure they are connected securely to the pump plug. Check the rest of the pump wires for any possible breaks.
2. If the pump wires are intact, the pump may



be clogged. (a) Disconnect the charger from the wall outlet and disconnect the battery cables. (b) Release the union and remove the pumps by the handle on the primary pump. (c) Clear any debris from the strainer and then reconnect the pump to the discharge pipe. (d) Connect

the control unit, and the battery cables to the battery: the RED wire to the POSITIVE (+) post and then the BLACK wire to the NEGATIVE (-) post. Tighten the wing nuts/bolts. (e) Plug the charger back into the wall outlet.

3. (a) Check the DC fuse by pulling it out of the fuse holder. (b) If the filament is burned or broken, replace the fuse with a 20-amp DC automotive safety fuse. If the fuse blows again, unplug the computer control unit from the wall and disconnect the battery cables from the battery. Then call Glentronics technical support for instructions at 800-991-0466, option #3. You may need to replace the pump.
4. Plug the main AC pump back into the wall outlet.

Pump Light – LED Light ③

When the water rises in the sump pit and activates the float switch, the pump will begin pumping, and the “PUMP WAS ACTIVATED” light and alarm will turn on. Try to determine what caused the system to activate.

- Check the main AC pump for failure. It may not be working, the float switch may be stuck, or the pump may be too small to handle the inflow of water.
- Ensure the check valve is working.
- Make sure the discharge pipe is not clogged or frozen.
- If the power was out, the backup pump was activated and protected your basement. Push the RESET button on the front of the control panel to silence the alarm.

REPLACING THE BACKUP PUMP

Before you begin this process you will need a new backup pump. You may also want to change the check valves at this time. The backup pump uses a 1¼" check valve, the primary pump uses a 1½" check valve. (See parts list on page 12.)



YOU WILL BE DISCONNECTING ALL THE WIRES. BE SURE THEY DO NOT FALL INTO THE SUMP PIT. SEE DIAGRAM ON PAGE 12 FOR PARTS DESCRIPTION.



Risk of electrical shock or battery explosion, which can cause serious injury or death. Wear eye protection. Work in a well-ventilated area. Do not smoke or allow a spark or flame in the vicinity of the battery. Avoid dropping metal tools on the battery. Review the safety instructions on page 1

REFER TO THE PHOTOS AT RIGHT

1. Unplug the primary pump from the blue dual float controller.
2. Remove the charger plug from the back of the black backup controller.
3. Unplug the backup pump from the back of the black controller.
4. Remove the battery wires from the battery terminals. Be sure they do not touch each other while one is connected to the battery.
5. Slowly loosen the rubber union on the top of the combination pump assembly to separate the pipes. The water trapped in the pipe will pour out into the sump as the rubber union is loosened.
6. Separate the pump assembly from the rubber union and lift it out of the sump by the handle on the primary pump.
7. Turn the assembly up side down over the sump pit to allow the remaining water in the system to drain.
8. Loosen all of the screws on the no-hub connectors for the backup pump, primary pump, and primary float switch. Remove the wye pipe.
9. Slide the backup pump assembly out of the seat in the handle of the primary pump.
10. Unscrew the screws on the bottom of the pump bracket with a Phillips head screwdriver, and lift the pump off of the bracket.
11. If you do not have a new check valve,



unscrew the check valve on the elbow of the backup pump. Now reverse the process.

12. Screw the new/old check valve and no-hub onto the new pump. (You can use the existing check valve, but preferably replace it with a new one.)
13. Place the pump on the pump bracket and screw it onto the bracket.
14. Slide the backup pump assembly back into the seat in the handle of the primary pump.
15. Replace the wye pipe and tighten the hose clamps on both no-hub connectors and the primary pump float switch.
16. Lower the pump system back into the

sump pit using the primary pump handle.

17. Connect the top of the system to the rubber union and tighten both hose clamps.
18. Connect the battery cables to the battery terminals, RED to the POSITIVE (+) post, and BLACK to the NEGATIVE (-) post.
19. Plug the backup pump into the back of the black backup controller.
20. Plug the charger into the back of the black backup controller.
21. Plug the primary pump into the blue controller.
22. Test the systems; run them through several full cycles.

REPLACING THE PRIMARY PUMP

Before you begin this process you will need a new AC pump. You may also want to change the check valves at this time. The backup pump uses a 1¼" check valve, the primary pump uses a 1½" check valve. (See parts list on page 12.)



⚠ DANGER

Risk of electrical shock or battery explosion, which can cause serious injury or death. Wear eye protection. Work in a well-ventilated area. Do not smoke or allow a spark or flame in the vicinity of the battery. Avoid dropping metal tools on the battery. Review the safety instructions on page 2.

YOU WILL BE DISCONNECTING ALL THE WIRES. BE SURE THEY DO NOT FALL INTO THE SUMP PIT. SEE DIAGRAM ON PAGE 12 FOR PARTS DESCRIPTION.

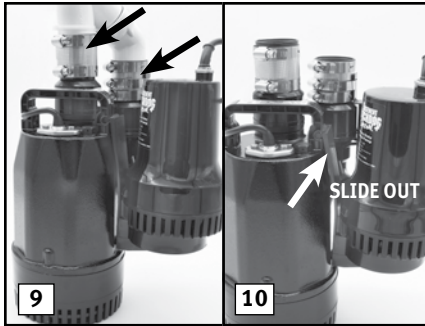
REFER TO THE PHOTOS BELOW

1. Unplug the primary pump from the blue

controller.

2. Remove the charger plug from the back of the black backup controller.
3. Unplug the backup pump from the back of the black controller.
4. Remove the battery wires from the battery terminals. Be sure they do not touch each other while one is connected to the battery.
5. Slowly loosen the rubber union on the top of the combination pump assembly to separate the pipes. The water trapped in the pipe will pour out into the sump as the rubber union is loosened.
6. Separate the pump assembly from the rubber union and lift it out of the sump by the handle on the primary pump.
7. Turn the assembly up side down over the sump pit to allow the remaining water in the system to drain.
8. Cut the cable ties on the backup float switch and remove it.
9. Loosen the screws on the no-hub connectors on the backup pump, the primary float, and primary pump. Remove the wye pipe.





10. Slide the backup pump assembly out of the seat in the handle of the primary pump.

11. If you do not have a new check valve, unscrew the check valve on top of the existing pump. Now reverse the process.

12. Screw in new/old check valve on top of the primary pump. (You can use the existing check valve, but preferably replace it.)

13. Carefully slide the backup pump and bracket into the handle of the new primary pump.

14. Replace the wye pipe to the top of both check valves with the no-hub connectors and tighten the hose clamps, including the hose clamp for the primary float.

15. Replace the backup pump float switch using 2 new cable ties. Make sure the float moves easily, and will not get hung up on the pump.

16. Lower the pump back into the pit by the handle on the primary pump.

17. Connect the top of the system to the rubber union and tighten the hose clamp.

18. Connect the battery cables to the battery terminals, RED to the POSITIVE (+) post, and BLACK to the NEGATIVE (-) post.

19. Plug the backup pump into the back of the black controller.

20. Plug the charger into the back of the black controller.

21. Plug the primary pump into the blue controller.

22. Test the systems; run them through several full cycles.

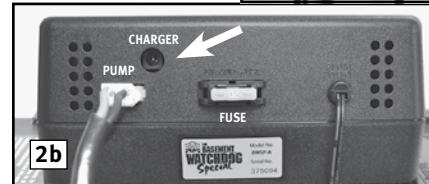
Power Alarm – LED Light ④

Power failure could have several causes. The most common is a power outage by your electric company. During this emergency, the Basement Watchdog system will automatically switch to battery power and protect your basement from flooding.

You can silence the “Power” alarm for 24 hours by pressing the RESET button for 5 seconds. The alarm will be silenced, but the light will stay on. The system will continue to operate while the power alarm is silenced. After 24 hours, the alarm will reset automatically.

1. If the power is on in the rest of the house, check the home circuit breaker or fuse box, check the GFCI, and check the outlet for failure, and correct the problem.

2. Check the charger. Make sure it is securely plugged into the wall outlet (a) and into the rear of the control unit (b).

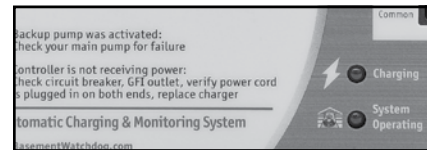


The control unit must receive 115 volts AC +/- 5% from the AC outlet. Any voltage lower than 110 volts will activate the power failure alarm. Lower voltages can be caused by utility company brown outs or a heavy power draw from other appliances on the same circuit. Reduce the number of appliances on the circuit.

If all the connections are secure and the wall outlet is operating, but the “Power” warning light is still on, replace the charger unit with the Basement Watchdog part number 1015010 from Glentronics at 800-991-0466, option #3.

Charging – LED Light ⑤

The Basement Watchdog backup system is equipped with a computer-controlled automatic charging system. The computer is constantly monitoring the battery and will supply a pre-programmed amount of energy to keep your battery at full charge. The “Charging” light will be on solid when actively charging the battery, flashing while acting as a battery minder (holding the battery at its optimal charge), and off when it is not charging. If the battery is discharged from extended use, the charger light will remain on solid until the battery is completely recharged.



System Operating – LED Light ⑥

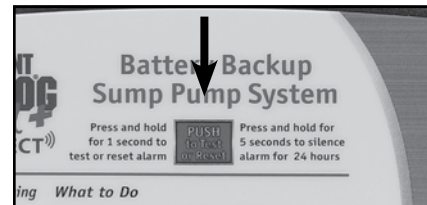
This light will always be on when power is coming from either the battery or the outlet.

TEST-RESET-SILENCE BUTTON

To test the pump, press the RESET button for 1 second. The pump will run for 2 seconds and then shut off automatically.

To reset an alarm, press the RESET button for 1 second. If the warning condition still exists and has not been rectified, the alarm will sound again in 2 minutes. Some alarms cannot be silenced since action needs to be taken to prevent a flood.

To silence an alarm for 24 hours, press the RESET button for 5 seconds until you hear a buzz. The alarms will automatically reset in 24 hours. If the warning condition still exists and has not been rectified, the alarm will sound again.

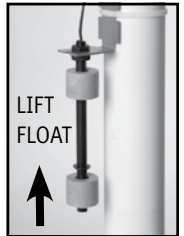


Some alarms cannot be silenced as action needs to be taken in order to prevent a flood.

TESTING THE BACKUP FLOAT SWITCH

It is important to manually test the float switch periodically or after any maintenance.

Lift the float up and let go. This will activate the pump. The control unit will run the pump for approximately 25 seconds so it can empty all the water in the sump pit. If there is no water in the pit, the pump can run dry for this amount of time. The alarm will sound and the PUMP light will go on. After the pump has stopped, push the RESET button to silence the alarm. If the RESET button is pressed before the pump has stopped, the alarm will go off temporarily. Wait for the pump to stop pumping, and then push the RESET button to completely silence the alarm.



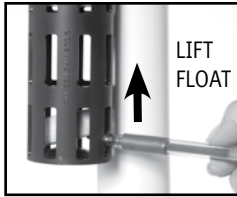
While the pumps are active, water will come out of the 1/8" hole located on the top of the main pump and the 3/16" hole located in the elbow of the backup pump. This is normal. The holes are needed to prevent an air lock within the system. **DO NOT** obstruct the holes or an air lock may prevent the system from activating.



TESTING THE PRIMARY PUMP FLOAT SWITCH

Lift the float within the cage with a pencil or other non-metallic item and let it drop. The pump will run for an additional 10 seconds after the float returns to the original position.

It will not damage the pump to run it for this short time if the sump pit is dry. However, DO NOT hold the float up for an extended time without water in the sump.



While the pumps are active, water will come out of the 1/8" hole located on the top of the main pump and the 3/16" hole located in the elbow of the backup pump. This is normal. The holes are needed to prevent an air lock within the system. DO NOT obstruct the holes or an air lock may prevent the system from activating.



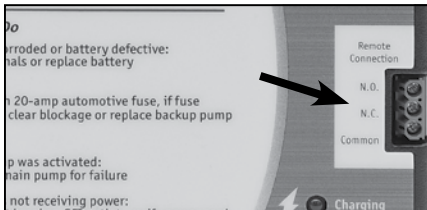
Using the Remote Notification

THE REMOTE TERMINAL

The CITS-50 can be connected to a home security system or other alarm devices to alert you to a problem or required maintenance.

INSTRUCTIONS FOR CONNECTING THE REMOTE ALARM

The terminal is located on the front of the control unit. There are three (3) positions for wire connections on the terminal: N.O. – normally open, N.C. - normally closed, and common.



Check your security system to determine whether an open (no contact) or closed (making contact) connection is needed to activate the alarm.

The security system will provide two connection terminals. You will need to extend wires from the security system to the Basement Watchdog control unit. Strip the two wires, 1/4" each. Connect either wire to the common terminal. To secure the wire into the terminal, insert the exposed wire into the hole on the back of the terminal next to the screw marked common. Turn the screw a few turns to lock-in the wire.

If the security system requires a closing of a contact to activate the alarm, secure the other wire in the terminal hole labeled N.O. (normally open). If the security system requires an opening of a contact, secure the wire in the terminal hole labeled N.C. (normally closed).

USB DATA PORT

This system has been updated with a USB port on the side of the controller. The purpose of this port is to allow communication with the Basement Watchdog CONNECT® Modules. **DO NOT** connect any other device to the USB data port other than a Basement Watchdog Wifi or Home Automation Connect Module.



CONNECT MODULE

The Basement Watchdog CONNECT® Module is a separately sold accessory that will allow the user to stay connected and receive remote notifications of potential problems and needed maintenance while away from home.



The Basement Watchdog CONNECT WiFi Module (Model BW-WiFi2)



- Sends emails or text notifications and status alerts to your phone, tablet or computer
- No required monthly or yearly fees or subscriptions

For more information, please visit www.BasementWatchdog.com

MAINTENANCE CHECK LIST

Maintenance should be performed 1-2 times per year.

1. Lift the float switch as described on page 10 and this page.
2. Remove all debris from the bottom of the pit and pump strainers.
3. Remove all debris from the water.
4. Remove all debris from the float switch.
5. Fill the pit with water. Make sure the pump turns on at the intended level.
6. While the pump is running, make sure the pump is evacuating water at a good pace and water is coming out of the 1/8" air vent on the top of the pump and the 3/16" air bleed hole in the elbow of the backup pump.
7. Check battery fluid levels once every four months if your system uses a wet-cell standby battery.

PARTS & SERVICE INFORMATION

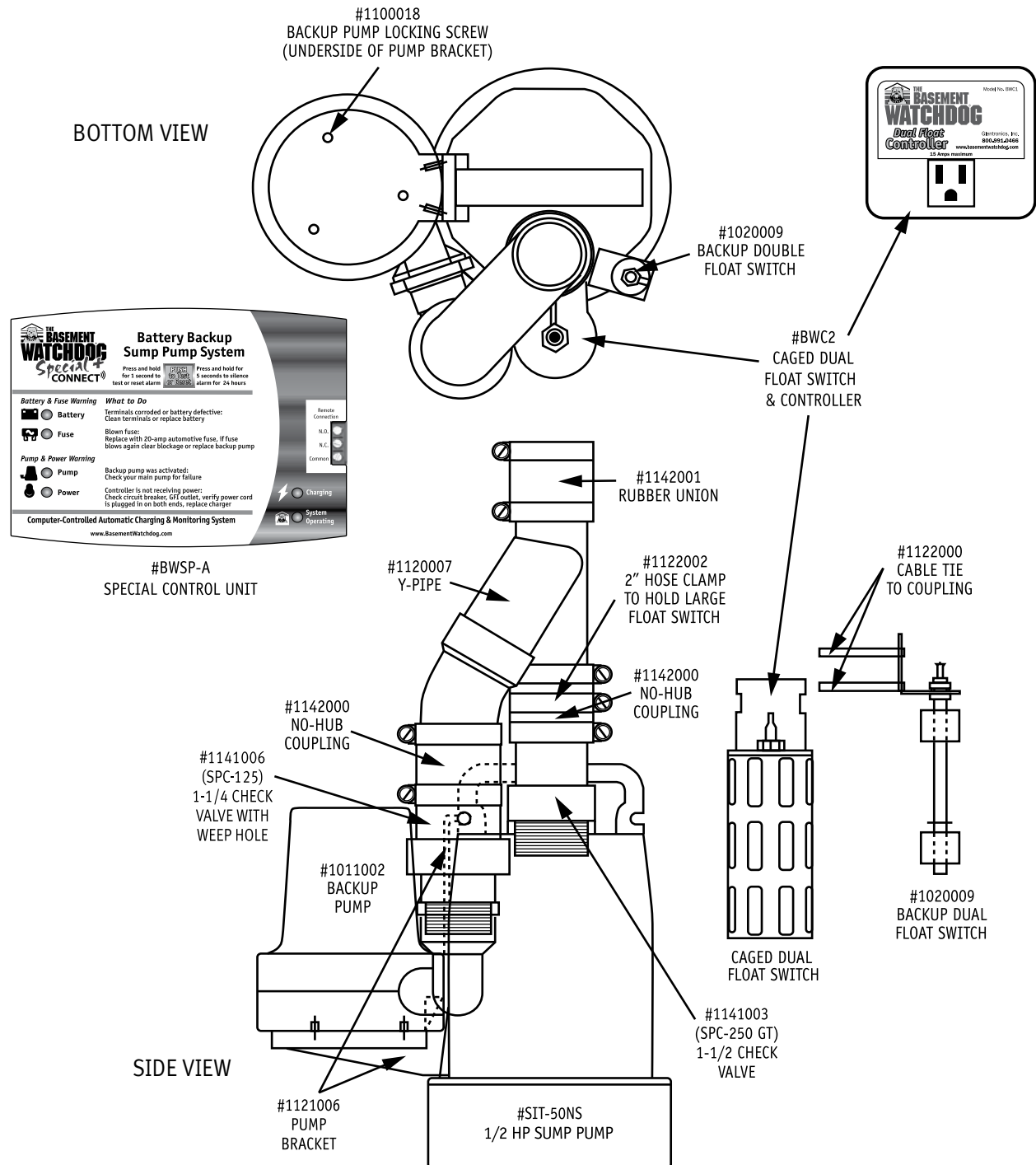
You can receive technical support, parts or service information by calling Glenetronics, Inc. at 800-991-0466, option 3, or by visiting the website at www.basementwatchdog.com. Send your unit to the following address for repairs:

Glenetronics, Inc. Attn: Repairs
645 Heathrow Drive, Lincolnshire, IL 60069

Replacement Parts List

Description	Part No.
½ HP AC sump pump	SIT-50NS
Caged dual float switch with piggyback controller	BWC2
Backup pump	1011002
Backup control unit	BWSP-A
Wye PVC pipe fitting	1120007
Support bracket for backup pump	1121006
Charger for backup pump	1015010
Backup dual float switch	1020009
Backup pump locking screw (#12 x ½" pan head)*	1100018
1¼" check valve with weep hole for backup pump*	1141006
1½" check valve for primary pump*	1141003
No-hub stainless steel connectors*	1142000
1½" rubber union*	1142001
2" hose clamp*	1122002
Cable tie*	1122000

*Stock items available in plumbing department
Call 800-991-0466, option 3 to order parts.



Primary Pump Troubleshooting Guide

⚠ DANGER

Read safety warnings & instructions before attempting any repairs or maintenance.

Potential Cause	THE PUMP WILL NOT START OR RUN	Solutions
Pump is not plugged in	Plug pump in properly (see instructions)	
No AC power	Check circuit breaker or fuse	
Poor power source	Check circuit line wires, cable and outlet	
Locked impeller	Remove strainer and clear obstruction	
Defective float switch	Replace float switch with new float switch	
Defective pump	Replace pump with new pump	

Potential Cause	THERMAL PROTECTOR TRIPPING OR NOT FUNCTIONING	Solutions
Locked impeller	Remove strainer and clear obstruction	
Incorrect power supply	Check power supply source and voltage	
Pump running continuously with no water present...	Check float switch	

Potential Cause	PUMP STARTS AND STOPS TOO FREQUENTLY	Solutions
Float switches mounted too low	Raise both float switches	
Water backflowing from pipe	Replace check valve	
Malfunctioning float switch	Replace float switch with new float switch	

Potential Cause	PUMP WILL NOT SHUT OFF	Solutions
Clogged or frozen discharge	Clear blockage or thaw frozen line	
Blocked intake strainer	Clear debris from intake strainer	
One or both of the floats is obstructed and cannot drop ..	Clear debris from inside the float cage (Loosen nut on top of float, then remove c-clip on bottom of float. Remove debris. Tighten nut on top of float, then replace c-clip on bottom of float.) When reassembling the float, the magnetic strip on the inside of the float should be facing down.	
Defective float switch	Replace float switch with new float switch	
Check valve is stuck	Replace check valve	

Potential Cause	INSUFFICIENT OR NO WATER VOLUME	Solutions
Check valve on secondary pump will not close and water recirculates within the system	Replace the check valve on the secondary pump	
Partially blocked impeller	Remove strainer and clear obstruction	
Clogged or frozen discharge pipe	Clear blockage or thaw frozen line	
Broken or leaking pipe	Repair pipe	
Low power voltage	Check power voltage, wires and cable condition	
Check valve is stuck	Replace check valve	
There is an air lock within the system	Make sure the air relief valve located on the top of the primary pump is clear of debris	

Potential Cause	ABNORMAL SOUND OR VIBRATION	Solutions
Check valve is broken	Replace the check valve	
Blocked intake screen	Clear debris from intake screen	
Defective pump	Replace pump	

Backup Pump Troubleshooting Guide

⚠ DANGER

Read safety warnings & instructions before attempting any repairs or maintenance.

Potential Cause	BATTERY PROBLEM	Solutions
Terminals are corroded	Clean terminals and cables	
Cables are loose	Tighten wing nuts/bolts	
Battery is discharged below 25%	Replace battery if power is out. There is only ½ hour of continuous pumping power left. Battery will recharge when power is restored.	
Battery is old or damaged	Replace battery	

Potential Cause	POWER FAILURE	Solutions
Power outage.....	None. Silence the alarm for 24 hours	
A circuit breaker, fuse, or outlet has failed	Reset the circuit breaker, replace the fuse, or repair the outlet	
The charger is unplugged from either end.....	Make sure the power cord is plugged in securely at both ends	
The control unit is receiving less than 110 volts from the outlet.....	None, if the utility company has instigated brownouts. Otherwise, reduce the number of other appliances on the circuit	

Potential Cause	PUMP WILL NOT SHUT OFF	Solutions
Backup pump is clogged	Remove strainer from pump and clean out any debris	
Defective float switch	Replace float switch with new float switch	
Check valve is stuck	Replace check valve	
Backup pump is broken	Replace the pump	
A slight chance of false activation exists if the float switch is wrapped around the AC power cord	Move the float switch cord away from the AC power cord	

Potential Cause	INSUFFICIENT OR NO WATER VOLUME	Solutions
Backup pump is unplugged	Make sure the pump is securely plugged into the controller	
The check valve is stuck and the water cannot pass through it.....	Replace check valve	
The discharge pipe is clogged or frozen.....	Thaw, clean out the blockage, or replace the discharge pipe	
There is an air lock within the system	Make sure the 3/16" weep hole built into the check valve is not clogged or covered	

Potential Cause	BACKUP PUMP ACTIVATED	Solutions
The main AC pump failed because of a power outage ..	None. The backup pump was activated when needed	
The float switch on the main AC pump is stuck or defective	Free the float switch on the main pump or replace it	
The main AC pump is broken.....	Replace the main AC pump	
The main AC pump could not keep up with the inflow of water	None. The backup pump was activated as needed	

Potential Cause	ABNORMAL SOUND OR VIBRATION	Solutions
Check valve is broken	Make sure check valve is functioning, or replace it	
Discharge pipe is clogged or frozen.....	Clear the discharge pipe	
Defective pump.....	Replace pump	

If the above solutions do not resolve the problem, follow the instructions within this manual to disconnect the system from the outlet and battery terminals, then reconnect the system and push the reset button. If the problem continues, contact customer service.

Limited Warranty

By opening this package and using this GLENTRONICS, INC. product, you are agreeing to be bound by the terms of the GLENTRONICS, INC. limited warranty ("warranty") as set out below. Do not use your product until you have read the terms of the warranty. If you do not agree to the terms of the warranty, do not use the product and return it within the return period stated on your purchase receipt from the retail store or authorized distributor where you purchased it for a refund.

To the extent permitted by law, this warranty and the remedies set forth are exclusive and in lieu of all other warranties, remedies and conditions, whether oral, written, statutory, express or implied. GLENTRONICS, INC. disclaims all statutory and implied warranties, including without limitation, warranties of merchantability and fitness for a particular purpose and warranties against hidden or latent defects, to the extent permitted by law. GLENTRONICS, INC. will not be liable for any incidental, special or consequential damages for breach of any express or implied warranties on this product. In so far as such warranties cannot be disclaimed, GLENTRONICS, INC. limits the duration and remedies of such warranties to the duration of this express warranty and, AT GLENTRONICS, INC.'s option, the repair or replacement services described below. Some states (countries and provinces) do not allow limitations on how long an implied warranty (or condition) may last, so the limitation described above may not apply to you.

Any and all causes of action arising from, filed as a result of or in reference to, this warranty or the products described under this warranty shall be governed by and construed under the laws of the State of Illinois. Any cause of action arising from, filed as a result of or in reference to, this warranty or the products described under this warranty shall be filed only in the Circuit Court of the 18th Judicial District, Lake County, Waukegan, Illinois, or in the Northern District of Illinois if filed in Federal Court. The maximum liability for any product described in this warranty shall be the cost of product replacement only.

If any term is held to be illegal or unenforceable, the legality or enforceability of the remaining terms shall not be affected or impaired.

What is Covered by this Warranty?

GLENTRONICS, INC. warrants to the end purchaser that its pumps, switch and control unit products are free from defective materials and workmanship for the periods indicated below:

All parts and labor (excluding installation) for a period of:

- 2-year standard warranty; 4 yrs when purchased WITH the Basement Watchdog Battery (BW-27AGM) AND registered online

The defective product must be returned directly to the factory, postage prepaid with the original bill of sale or receipt to the address listed below. GLENTRONICS, INC., at its option, will either repair or replace the product and return it postage prepaid.

What is NOT Covered by this Warranty?

This warranty does not cover the cost or value of damaged property, including expressly any property that has been affected by water overflow, seepage or flooding. If GLENTRONICS, INC. determines that a product is deemed defective under this warranty agreement, it will repair or replace the PRODUCT ONLY. GLENTRONICS, INC. will not cover the cost to reinstall the product, nor will GLENTRONICS, INC. pay the cost of having a plumber or contractor repair or replace the product.

GLENTRONICS, INC. will not repair or replace a product that was installed incorrectly. A product shall be considered "installed incorrectly" when it deviates in any way from the instructions described in this manual.

This warranty does not cover product problems resulting from handling liquids hotter than 104 degrees Fahrenheit, handling inflammable liquids, solvents, strong chemicals or severe abrasive solutions; user abuse; misuse, neglect, improper maintenance, commercial or industrial use; improper connection or installation, damages caused by lightning strikes; excessive surges in AC line voltage; water damage to the controller; other acts of nature, or failure to operate in accordance with the enclosed written instructions.

How to Obtain Warranty Service

Within thirty (30) days of the product's defective performance, the unit must be shipped, freight prepaid, or delivered to GLENTRONICS, INC. to provide the services described hereunder in either its original carton and inserts, or a similar package affording an equal degree of protection. Products not received by GLENTRONICS, INC. at the address indicated below within thirty (30) days of the product's defective performance will not be considered for warranty service. Products received after two (2) years from the date of purchase, fall outside of the timeframe for warranty service and will not be eligible for warranty service. The product must be returned to GLENTRONICS, INC. for inspection in order to be considered for warranty service. If the product is not returned to GLENTRONICS, INC. or the product is inspected by any person, plumber, contractor or business other than GLENTRONICS, INC., this warranty shall no longer be valid. Prior to defective operation, the unit must not have been previously altered, repaired or serviced by anyone other than GLENTRONICS, INC., or its agent; the serial number on the unit must not have been altered or removed; the unit must not have been subject to accident, misuse, abuse or operated contrary to the instructions contained in the accompanying manual. The dealer's dated bill of sale, or installer's invoice must be retained as evidence of the date of purchase and to establish warranty eligibility.

Where are Products Sent for Warranty Service?

Glentronics, Inc. Attn: Repairs, 645 Heathrow Drive, Lincolnshire, IL 60069

How Can I Obtain More Information?

By calling 800-991-0466.

Watching Out for You!

Scan the QR code to tap into a wealth of knowledge and get the most out of your CITS-50 combination sump pump system. Or visit our vast collection of online resources by typing this URL directly into your Web browser:

www.basementwatchdog.com/support/cits-50-combination-sump-pump-resources/



Installation

- Manuals
- Videos



User Resources

- Guides
- Parts



Maintenance

- Checklists
- FAQs



General Info

- Warranty
- Brochure

Ask Our Experts: Our industry-leading technical support department, located right here in the heartland of the U.S., is staffed by a team of experts. We offer free lifetime support, and our top priority is providing you with the finest customer experience anywhere.



Email service@basementwatchdog.com



Follow us on Facebook: www.facebook.com/BWDPumps



Call (800) 991-0466



Check out our YouTube channel: www.youtube.com/c/BasementWatchdog

We're Here Every Step of the Way:

- Installation Guidance
- Maintenance Recommendations
- Assistance Throughout the Life of Your Product

Additional Products to Help Protect Your Basement

Basement Wash-Dog SUMP SYSTEM CLEANER WDT20



FEATURES AND BENEFITS:

- Removes iron ochre—the red slime buildup—and other contaminants from your sump system and pit
- Keeps your sump pump and pit healthy
- Great solution for required periodic sump system maintenance and cleaning
- Easy to use
- Safe for the environment
- Made from a naturally occurring compound and 100% biodegradable



Maintenance Free Battery BW-27AGM



FEATURES AND BENEFITS:

- No need to add battery fluid or distilled water
- Runs our backup sump pump systems intermittently for days
- Lasts longer in standby operation
- Lasts longer and performs better than automotive or deep cycle batteries
- Designed to be discharged and recharged for use with battery backup sump pump systems

Water Alarms BW-WA360



FEATURES AND BENEFITS:

- Patented design allows it to detect water on any side
- Senses as little as 1/32" of water
- Compact size (2 3/8" x 1" x 3 1/4") fits almost anywhere
- Piercing 110 dB alarm can be heard throughout the house
- Solid-state circuitry is extremely sensitive and reliable

BW-HWA



FEATURES AND BENEFITS:

- Detects leaks before costly water damage is caused
- Save money by detecting leaks early
- Can be placed directly on floors or mounted for installation in a variety of locations

Sewage Pump SW-50T 1/2 HP



FEATURES AND BENEFITS:

- Cast-iron/stainless-steel construction for durability
- Noncorroding, stainless-steel hardware
- Adjustable tether switch
- 4,400 GPH @ 10 ft. lift
- 6,000 GPH @ 0 ft. lift
- 3-year limited warranty
- Permanent split capacitor motor increases energy efficiency
- Upper & lower ball bearings for quiet operation and extend the life of the motor
- 2" inlet and discharge