

This manual is for the PHCC1730-A which can accommodate maintenance or maintenance free batteries. See pages 2 and 8 for details.

Instruction Manual & Safety Warnings

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IMPORTANT: Even if you have the Pro Series 1730 Backup 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 PHCC Pro Series 1730 battery backup 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 Pro Series backup sump pump system, since this manual contains safety information regarding the use and maintenance of this product. **DO NOT DISCARD THIS MANUAL.**

ELECTRICAL PRECAUTIONS

A DANGER

Risk of electrical 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.
- **NEVER** handle the control unit with wet hands or while standing on a wet surface.
- ALWAYS unplug the control unit and disconnect the cables from the battery before attempting any maintenance or cleaning.
- ALWAYS unplug the main pump when installing or servicing the backup pump or float switch to avoid electric shock.
- DO NOT expose the control unit to rain or snow.
- **DO NOT** pull the cord when disconnecting the control unit. Pull the plug.
- DO NOT use an extension cord unless absolutely necessary. If an extension cord must be used, be sure the plug has the same configuration as the plug on the control unit.
- 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 NOT operate the control unit if it has received a sharp blow, been dropped, or otherwise damaged in any way.
- **DO NOT** disassemble the control unit.
- **DO** protect the electrical cord from sharp objects, hot surfaces, oil and chemicals. Avoid kinking the cord.
- MAKE SURE the supply circuit has a fuse or circuit breaker rated to handle the power requirements of this system.

When service is required, contact Glentronics technical support at 800-991-0466, option #3, or send an e-mail to service@glentronics.com. Return the control unit to the manufacturer for any repairs at the following address:

Glentronics, Inc. 645 Heathrow Drive Lincolnshire, IL 60069-4205

BATTERY PREPARATION

A WARNING / POISON

Sulfuric acid can cause blindness or severe burns. Avoid contact with skin, eyes, or clothing. In the event of an 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 prompt medical attention.
- Battery posts and terminals contain lead and lead compounds, chemicals known to the

State of California to cause cancer and reproductive harm. Wash hands after handling.

BATTERY PRECAUTIONS

A DANGER

Explosive gases could cause serious injury or death. Cigarettes, flames or sparks could cause battery to explode in enclosed spaces. Charge in a 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:

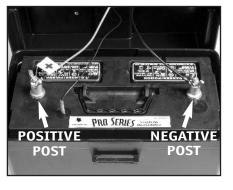
- **NEVER** smoke or allow a spark or flame in the vicinity of the battery.
- Use the Pro Series control unit for charging a LEAD-ACID battery only. DO NOT use the control unit for charging dry-cell batteries that are most commonly used with home appliances.
- Be sure the area around the battery is wellventilated.
- When cleaning or adding water to the battery, first fan the top of the battery with a piece of cardboard (or another non-metallic 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 might 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 hurn.
- ALWAYS remove the charger from the electrical outlet before connecting or disconnecting the battery cables.
- Check the polarity of the battery posts. The POSITIVE (+) battery post usually has a larger diameter than the NEGATIVE (-) post.
- When connecting the battery cables, first connect the small ring on the end of the BLACK wire to the NEGATIVE (-) post of the battery, and then connect the large ring on the end of the RED wire to the POSITIVE (+) post of the battery.







NEGATIVE POST HAS SMALLER DIAMETER



A DANGER

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

Introduction

The PHCC Pro Series 1730 backup sump pump system is battery-operated. It is designed as an emergency backup system to support your main AC sump pump, and it will automatically begin pumping any time the float switch is activated by rising water. Should any malfunction or emergency occur that involves the sump pump, the battery, or the AC power, the Pro Series system will sound an alarm. A light on the display panel of the control unit will indicate the cause of the alarm and the corrective action.

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

The Pro Series 1730 Sump Pump System includes:

- A control unit with a dual float switch, a battery fluid level sensor, battery cables, and a 20 amp fuse
- A pump with a 1½" PVC pipe adapter
- A plastic wire tie for mounting the float switch
- A battery box
- A battery charger
- A battery cap with a hole to accommodate the fluid sensor
- A battery filler for adding <u>distilled water</u> to the battery

You will also need to supply:

A Pro Series 2200 Standby Battery*
 DO NOT use an automotive battery with this system

DO NOT use a Pro Series 1000 battery with this system. It will not run the pump as long as the Pro Series 2200 battery

- 1½" rigid PVC pipe and fittings
- PVC primer and cement
- A union with hose clamps or a "Y" con-nector and two (2) check valves, depending on the installation method you use
- A surge protector (recommended)
- Six (6) quarts of 1.265 specific gravity battery acid



* Pro Series 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 Pro Series battery is recommended.



For narrow sump pits you will need some additional parts:

- An "L" bracket at least six (6) inches long (preferably one that will not rust)
- Two (2) stainless steel hose clamps
- One (1) stainless steel screw (#8-32 x 3/4"), a matching washer & nut



Use of a Pro Series Klunkless Check Valve™ will provide quieter operation. (See back cover for more information.)



Replacement Part Numbers

Pump
Float switch assembly1020009
Fluid sensor assembly1014001
Pipe adapter1120002
Charger
Battery box
Battery filler bottleBFB-F

Fluid Sensor

Call 800-991-0466, option #3 to order parts.

System Specifications

System Specifications
Power supply requirements
Pumping capacity2500 GPH @ 0'
Pumping capacity1730 GPH @ 10'
Pump dimensions w/elbow75%" H x 9"W
Pump housing & strainernon-corrosive,
will not rust
Pumpcan run dry for short periods of time;
can be used in sumps with water softener
Float switchindependent, can be
set at any level

There are two basic methods that can be used to install the pump, a direct discharge to the outside of the building, or a connection to an existing discharge pipe. The same two options apply in very narrow sump pits where the backup pump must be mounted above the main pump.

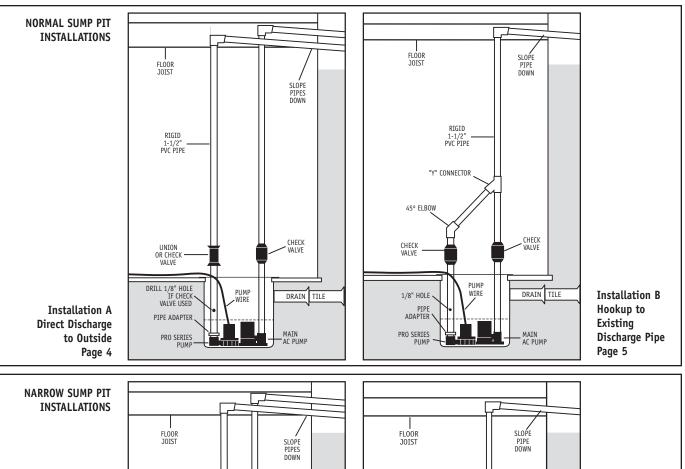
Whenever possible, install your Pro Series backup pump with a direct discharge to the outdoors. By using this method, there will always be an outlet for the water from the sump. During times of very heavy rain, many storm sewers fill up. If your pump is trying to discharge water into a full sewer, there is nowhere for the water to go. By discharging directly outdoors, there is always an outlet for the water that is pumped out of the sump. For this method, you will need to drill a hole through a floor joist or the foundation from the basement to the outside of the house.

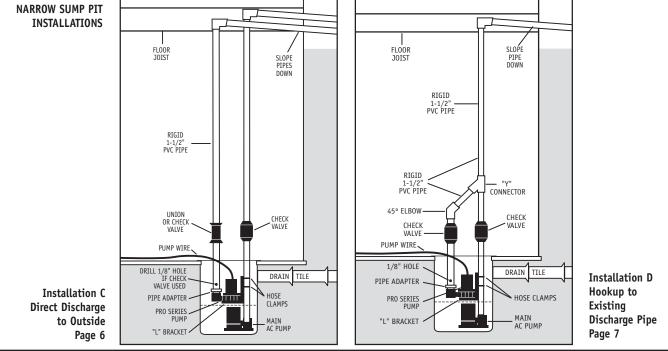
If the direct discharge method is not possible or convenient, the Pro Series pump can be connected to the same line as your main AC sump pump by installing a "Y" connector and two (2) check valves.

In most cases, the backup pump will fit next to the main AC pump in the sump pit. In very narrow pits, the backup pump can be mounted above the main AC pump. Try to fit the backup pump on the floor of the sump first. Make sure there is enough room so the backup pump and the main pump do not touch each other.

Select the installation method that will best suit your needs from the diagrams at the right. Full instructions for each installation method are provided on the following pages.

Installation will take a couple hours.





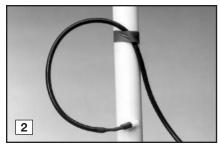
INSTALLATION A:
DIRECT DISCHARGE TO THE OUTSIDE OF THE
BUILDING (Diagram A)

A DANGER

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

- 1. Cut a piece of 1½" rigid PVC pipe long enough to reach from the bottom of the sump pit to one (1) foot above the floor. Prime and cement it to the 1½" pipe adapter, then screw the adapter into the pump.
- Secure the pump wire so that the plug on the end will not fall into the sump. Attach the wire to the pipe with a piece of tape.
- 3. Place the pump with the PVC pipe attachment on the bottom of the sump floor next to the main AC pump. *The pumps should not touch each other.* Do not mount the pump to any existing pipes; it should be





placed on the floor of the sump. A brick may be placed under the pump if there are rocks or other debris on the sump floor that may cloq the pump.

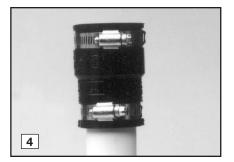
 Attach a union or a check valve to the top of the 1½" pipe. This will allow the pump to be removed easily, should the need arise.

The path of the rest of the pipe and the details of each installation will vary. Using sound plumbing practices, route the discharge pipe to an exterior wall via the shortest path with the fewest turns. More turns will reduce the pumping capacity. The pipe section exiting the building should be on a downward slope so that the water in the pipe will exit outside instead of returning to the sump pit. Be sure to seal the hole in the wall where the pipe exits, and prime and cement or clamp all connections securely to prevent leaking. (No check valve is needed with this method of installation as long as you use less than 20 feet of pipe.)

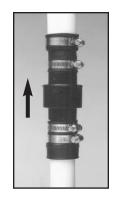
CAUTION

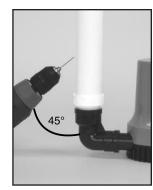
If you use more than a total of 20 feet of pipe in the installation (including vertical and horizontal runs), install a check valve in





place of the union. Make sure it is installed with the arrow pointing up, or it will not prevent the backflow of water. When a check valve is used, a 1/8" hole must be drilled in the PVC pipe above the Pro Series pump. Drill the hole at a 45° angle toward the bottom of the sump to avoid splashing water outside the sump pit. Make sure the hole is above the water line and below the check valve. If a hole is not drilled above the pump, an air lock may prevent the pump from operating.





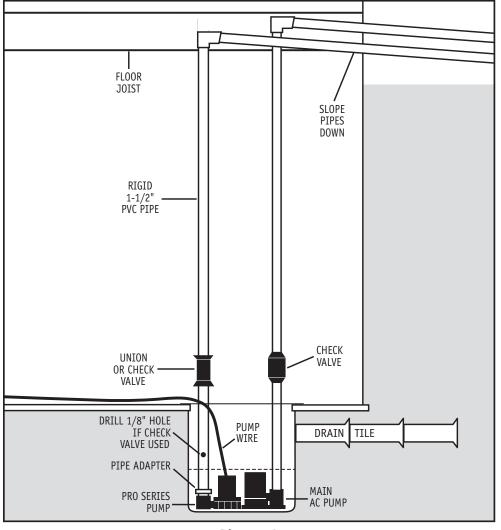


Diagram A

Page 4

INSTALLATION B: CONNECTION TO AN EXISTING DISCHARGE PIPE (Diagram B)

Depending on your installation requirements, PVC pipe lengths will vary. Cut the pipes and assemble them as shown in photo #7. Do not cement them together until you are sure they are cut to the correct lengths. It is important to keep the discharge pipes on both pumps parallel to each other, so that the pumps remain flat on the floor of the sump. More detailed instructions follow.

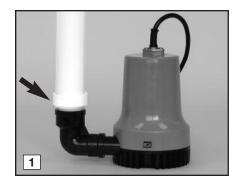
A DANGER

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

- Cut a piece of 1½" rigid PVC pipe long enough to reach from the bottom of the sump pit to one (1) foot above the floor. Prime and cement it to the 1½" pipe adapter, then screw the adapter into the pump.
- Install a check valve on the top of the PVC pipe attached to the Pro Series pump. Make sure it is installed with the arrow pointing up or it will not prevent the backflow of water.

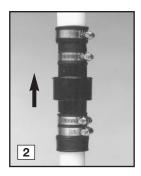
CAUTION

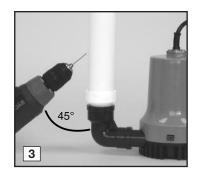
 When a check valve is used, a 1/8" hole must be drilled in the PVC pipe above the Pro Series pump. Make sure it is above the



water line and below the check valve. Drill the hole at a 45° angle toward the bottom of the sump to avoid splashing water outside the sump pit. If a 1/8" hole is not drilled in the pipe above the pump, an air lock may prevent the pump from operating.

- 4. If there is no check valve on the discharge pipe of the main AC pump, one must be installed at this time. Cut the discharge pipe approximately one (1) foot above the floor. Install a check valve on the top of the pipe and tighten the bottom hose clamp. Now prime and cement a small piece of 1½" PVC pipe to the bottom of a "Y" connector. Prime and cement the top of the "Y" assembly to the discharge pipe with the "Y" extension facing down toward the backup pump. Now connect the bottom of the assembly to the check valve and tighten the hose clamp.
- 5. Secure the pump wire so that the plug on the end will not fall into the sump. Attach the wire to the pipe with a piece of tape.
- 6. Place the pump with the PVC pipe attachment on the bottom of the sump floor next to the main AC pump. *The pumps should not touch each other.* Do not mount the pump to any existing pipes; it should be placed on the floor of the sump. A brick may be placed under the pump if there are rocks or other debris on the sump floor that may clog the pump.
- 7. Connect a piece of 1½" PVC pipe above the check valve of the Pro Series pump, and attach a 45° elbow to that pipe. Extend another piece of pipe to reach from the 45° elbow to the "Y" connector on the other pipe.
- 8. Prime and cement all pipe connections securely to prevent leaking, and tighten all the hose clamps.













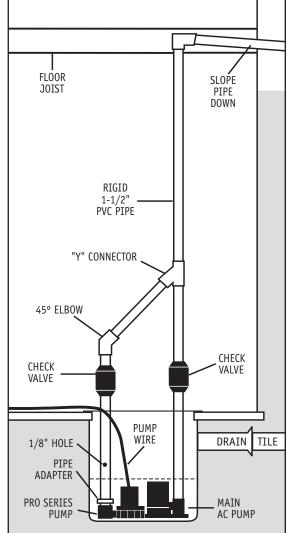


Diagram B

INSTALLATION C:
DIRECT DISCHARGE TO THE OUTSIDE OF THE
BUILDING FOR NARROW SUMP PITS
(Diagram C)

A DANGER

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

- 1. Attach an "L" bracket to the discharge pipe of the main AC pump with two (2) stainless steel hose clamps. Position the bracket so the bottom of the "L" is just above the top of the main pump, and out of the way of any float switch on the main pump.
- 2. (a) Remove the black bottom strainer of the pump by pressing in the two tabs on the strainer and pushing down. There are holes suitable for mounting on the bottom of the strainer. (b) Using the #8-32 x 3/4" stainless screw, washer and nut, attach the strainer to

the "L" bracket. (c) Once the strainer is attached, simply press the rest of the pump onto the mounted strainer.

- 3. Secure the pump wire so that the plug on the end will not fall into the sump. Attach the wire to the pipe with a piece of tape.
- 4. Cut a piece of 1½" rigid PVC pipe long enough to reach from the elbow of the backup pump to one (1) foot above the floor. Prime and cement it to the 1½" pipe adapter, then screw the adapter into the pump.
- Attach a union or check valve to the top of the 1½" PVC pipe. This will allow the pump to be removed easily, should the need arise.

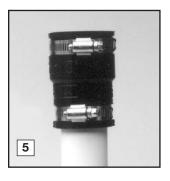
The path of the rest of the pipe and the details of each installation will vary. Using sound plumbing practices, route the discharge pipe to an exterior wall via the shortest path with the fewest turns. More turns will reduce the pumping capacity. The pipe section exiting the building should be on a downward slope so that the water in the pipe will exit outside instead of returning to the sump pit. Be sure to seal the hole in the wall where the pipe exits, and prime and cement or clamp all connections securely to

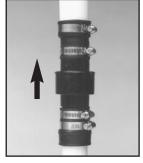
prevent leaking. (No check valve is needed with this method of installation as long as you use <u>less</u> than 20 feet of pipe.)

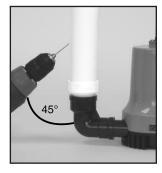
CAUTION

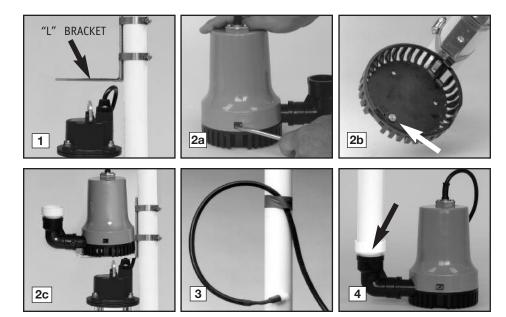
If you use more than a total of 20 feet of pipe in the installation (including vertical and horizontal runs), install a check valve in place of the union. Make sure it is installed with the arrow pointing up or it will not prevent

the backflow of water. When a check valve is used, a 1/8" hole must be drilled in the PVC pipe above the Pro Series pump. Drill the hole at a 45° angle toward the bottom of the sump to avoid splashing water outside the sump pit. Make sure the hole is above the water line, and below the check valve. If a hole is not drilled above the pump, an air lock may prevent the pump from operating.









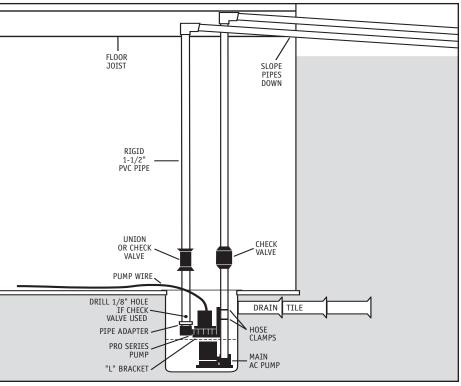


Diagram C

INSTALLATION D: CONNECTION TO EXISTING DISCHARGE PIPE FOR NARROW SUMP PITS (Diagram D)

Depending on your installation requirements, PVC pipe lengths will vary. Cut the pipes and assemble them as shown in photo #8. Do not cement them together until you are sure they are cut to the correct lengths. It is important to keep the discharge pipes on both pumps parallel to each other, so that the pumps remain flat on the floor of the sump. More detailed instructions follow.

A DANGER

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

1. Attach an "L" bracket to the discharge pipe of

- the main AC pump with two (2) stainless steel hose clamps. Position the bracket so the bottom of the "L" is just above the top of the main pump, and out of the way of any float switch on the main pump.
- 2. (a) Remove the black bottom strainer of the pump by pressing in the two tabs on the strainer and pushing down. There are holes suitable for mounting on the bottom of the strainer. (b) Using the #8-32 x 3/4" stainless screw, washer and nut, attach the strainer to the "L" bracket. (c) Once the strainer is attached, simply press the rest of the pump onto the mounted strainer.
- 3. Secure the pump wire so that the plug on the end will not fall into the sump. Attach the wire to the pipe with a piece of tape.
- 4. Cut a piece of 1½" rigid PVC pipe long enough to reach from the elbow of the backup pump to one (1) foot above the floor. Prime and cement it to the 11/2" pipe adapter, then screw the adapter into the pump.

5. Install a check valve on the top of the PVC pipe attached to the Pro Series pump. Make sure it is installed with the arrow pointing up or it will not prevent the backflow of water.

CAUTION

- 6. When a check valve is used, a 1/8" hole must be drilled in the PVC pipe above the Pro Series pump. Make sure it is above the water line and below the check valve. Drill the hole at a 45° angle toward the bottom of the sump to avoid splashing water outside the sump pit. If a 1/8" hole is not drilled above the pump, an air lock may prevent the pump from operating.
- 7. If there is no check valve on the discharge pipe of the main AC pump, one must be installed at this time. Cut the discharge pipe approximately one (1) foot above the floor. Install a check valve on the pipe and tighten the bottom hose clamp. Now prime and cement a small piece of 11/2" PVC pipe to the bottom of a "Y" connector. Prime and cement

- the top of the "Y" assembly to the discharge pipe with the "Y" extension facing down toward the backup pump. Now connect the bottom of the assembly to the check valve and tighten the hose clamp.
- 8. Connect a piece of 11/2" PVC pipe above the check valve of the Pro Series pump, and attach a 45° elbow to that pipe. Extend another piece of pipe to reach from the 45° elbow to the "Y" connector on the other pipe.
- 9. Prime and cement all pipe connections securely to prevent leaking, and tighten all the hose clamps.

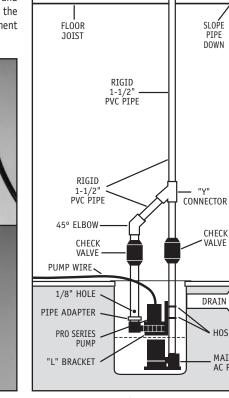


Diagram D

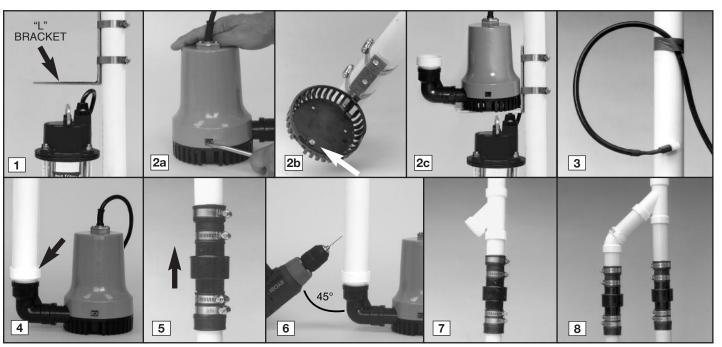
CHECK

TILE

HOSE CLAMPS

MAIN

AC PUMP



Battery Instructions

A new Pro Series 2200 Standby Battery will run this system for a minimum of 7.5 hours continuously. 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 Pro Series 2200 Standby batteries enable them to last longer in standby service.

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.
- The battery fluid sensor is designed to fit the Pro Series Standby batteries. Measuring the battery fluid is one of the most important features of the system, since about 80% of backup sump pump failures are the result of a battery that has dried out.
- Pro Series 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 Pro Series battery is recommended.

A DANGER

DO NOT insert the fluid sensor into any battery except a Pro Series battery. DO NOT drill a hole in another brand of battery to accommodate the fluid sensor. DO NOT use the enclosed battery cap on any battery except a Pro Series battery. DO NOT drill a hole in the cap of another brand of battery to accommodate the fluid sensor. Batteries emit explosive gases which can cause serious injury or death.

PREPARING THE PRO SERIES STANDBY BATTERY

The Pro Series Standby batteries are shipped dry (without acid) so they never lose power before you take them home. A battery is activated when the acid is added, and then it slowly begins to deteriorate as it ages. By adding the acid just before use, the battery will always be fresh. Use

1.265 specific gravity battery acid to fill the battery. It is available where you purchased the battery.

PRO SERIES BATTERIES COME IN TWO CONFIGURATIONS. THE TOPS OF THE BATTERIES LOOK DIFFERENT, AND THE DIRECTIONS FOR FILLING THE BATTERIES AND CONNECTING THE FLUID SENSOR WILL VARY SLIGHTLY. IF THE TOP OF YOUR BATTERY LOOKS LIKE PHOTO A, FOLLOW THE INSTRUCTIONS ON THIS PAGE. IF THE TOP OF YOUR BATTERY LOOKS LIKE PHOTO B, FOLLOW THE INSTRUCTIONS ON PAGE 9.

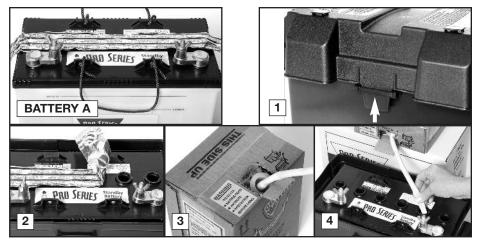
A DANGER / POISON

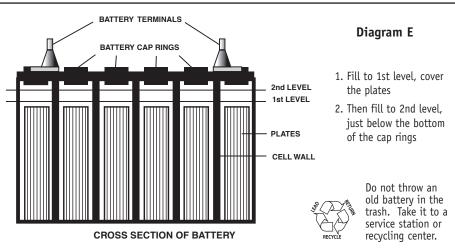
Contains sulfuric acid. Wear eye and clothing protection. If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters eyes, flush with water for 15 minutes, and get prompt medical attention. Review the safety instructions on page 1.

TO FILL THE BATTERY

- Remove the cover of the battery box by pushing in the tabs on the front and back of the box and lifting up.
- Place the battery box on the floor. Place the dry (unfilled) battery into the battery box. Remove the foil seal on the top of the battery.
- 3. Carefully push in the perforated tab at the top of the acid pack. Lift up the large tab and pull out the dispensing hose. Hold the hose upright above the pack and squeeze the hose forcing all the acid back into the pack.
- 4. Position the acid pack and battery as shown at the right. Pinch the end of the hose together and cut off the tip. Insert the end of the hose into each cell. Control the flow by pinching the hose with thumb and forefinger. Fill each cell of the battery to a level just covering the battery plates, and then go back and top off each cell equally. It is important to have all the cells filled equally or the battery will not operate properly. The acid should reach a level about 1/4" below the cap ring as shown in the diagram below. DO NOT OVERFILL THE BATTERY. (Diagram E)

A newly filled battery will sometimes require additional acid after about 20 minutes. Reexamine the fill level, and add additional acid if





necessary. The battery acid may bubble at this time and give off a sulfur-like smell, but this is normal. After the battery has been filled, screw the six (6) caps securely on the top of the battery.

The battery will be charged 70-80% 30 minutes after adding the acid. The system will then finish charging the battery. During this time the alarm may sound.

CAUTION

When you fill the battery for the FIRST time, it will be the ONLY time you add acid to the battery. In the future, when the fluid level is low, add distilled water to the cells. NEVER add more acid.

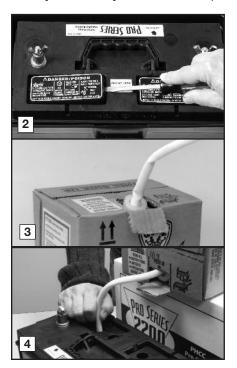


If your battery looks like the battery above, follow these instructions.

 Remove the cover of the battery box by pushing in the tabs on the front and back of the box and lifting up.

- Place the battery box on the floor. Place the dry (unfilled) battery into the battery box. Remove the two battery caps by lifting them up with a screwdriver. DO NOT lift the cap by prying it up from the groove on the back of the cap. It may damage the vent.
- Carefully push in the perforated tab at the top of the acid pack. Lift up the large tab and pull out the dispensing hose. Hold the hose upright above the pack and squeeze the hose forcing all the acid back into the pack.
- 4. Position the acid pack and battery as shown below. Pinch the end of the hose together and cut off the tip. Insert the end of the hose into each cell. Control the flow by pinching the hose with thumb and forefinger. Fill each cell of the battery to a level just covering the battery plates, and then go back and top off each cell equally. It is important to have all the cells filled equally or the battery will not operate properly. The acid should reach a level about 1/4" below the cap ring as shown on page 8. DO NOT OVERFILL THE BATTERY. (Diagram E)

A newly filled battery will sometimes require



additional acid after about 20 minutes. Reexamine the fill level, and add additional acid if necessary. The battery acid may bubble at this time and give off a sulfur-like smell, but this is normal. After the battery has been filled, press the caps securely on the top of the battery.

CAUTION

When you fill the battery for the FIRST time, it will be the ONLY time you add acid to the battery. In the future, when the fluid level is low, add distilled water to the cells. NEVER add more acid.

Control Unit Connections

A 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.

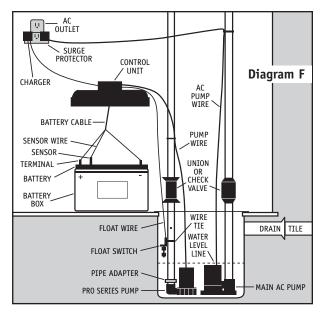
When you position the battery with the control unit on the top, be sure the charger cord will reach the AC power outlet, and the pump cable and the float switch will reach the bottom of the sump. Position the unit in a well-ventilated area. (Diagram F)

1. **Positioning the dual float switch:** The float switch will activate the pump when the water raises either float, and it will remain running as long as the water is above the float. When the water drops below the float switch, an internal timer in the control unit will keep the pump running an additional 25 seconds to empty the sump pit. The switch should be mounted about six (6) inches above the water level line in the sump pit. Attach the float switch very securely to the discharge pipe with

the plastic wire tie. Be sure the switch is positioned vertically with the mounting bracket at the top. Do not tilt the switch. Do not position the float switch on the side of the discharge pipe facing the drain tile or any incoming rush of water!

- 2. **Connecting the pump:** Remove the security tag from the pump and plug the pump wires into the pump connector on the back of the control unit. Keep the backup pump wire, the AC pump wire, and the float wire separate from each other. Do not let them cross on the final installation.
- 3. Installing the battery fluid sensor: PRO SERIES BATTERIES COME IN TWO CONFIGURATIONS. THE HOLE FOR THE FLUID SENSOR IS MARKED BY AN

ARROW ON THE TOP OF EACH BATTERY. Remove the cover of the battery box by pushing in the tabs on the front and back, then lifting up. Fan the area around the top of the battery with a piece of cardboard (or another non-metallic material) to remove any hydrogen or oxygen gas that may have been emitted from the battery. (a) If the top of the battery has six small battery caps, replace the battery cap that is 2nd from the POSITIVE (+) post with the battery cap that is provided in the Pro Series package. An arrow on the top of the battery marks this position. There are two holes in this battery cap. Insert the fluid sensor in the hole that is off-center on the top of the cap. Do not glue the sensor into the cap. (b) If the top of the battery has two large caps, place the fluid sensor in the hole molded on the top of the battery. It is located in the second cell from the positive post, and the location is marked by an arrow on the top label. Hold the sensor



straight up and press it firmly into the hole. Do not bend the sensor.

CAUTION

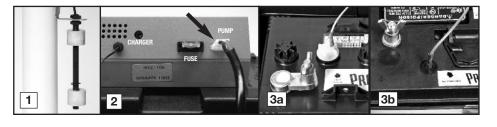
If you are not using the Pro Series Standby battery, you cannot use the battery fluid sensor. However, you must attach

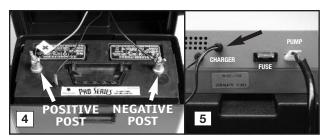


the sensor to the POSITIVE (+) post of the battery or the alarm will sound continuously. The Pro Series sump pump system will not warn you if the fluid level is low in this configuration. You will need to check your battery every couple of months to see if it needs water. If the battery dries out, the system will not work.

4. Connecting the battery: (a) Remove the wing nuts from the battery terminals. Remove the security tag from the battery cables. Attach the battery cables to the battery...the BLACK wire to the NEGATIVE (-) post, and the RED wire to the POSITIVE (+) post. Replace the wing nuts and tighten them.

Note: Connecting the cables to the wrong posts will damage the controller.





- 5. Connecting the charger: Immediately plug the charger into the charger hole on the back of the control unit, then into an AC outlet on the wall. (You should provide additional protection for the control unit by using a surge protector.)
- If the pump alarm is sounding, press the GRAY button on the front of the control panel to reset the alarm.
- Secure the cover on the battery box by slipping the tabs through the fittings on the front and back of the box.
- 8. BE SURE TO PLUG IN THE MAIN AC PUMP WHEN YOU FINISH THE INSTALLATION.

Understanding the Warnings & Alarms

The Pro Series control unit 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 GRAY button on the front of the control panel must be pushed to reset the alarm. Refer to the table below for a quick review of the features and their corresponding alarm status.

Warning	Alarm can be silenced before problem is corrected	Alarm shuts off automatically when the problem is corrected
Battery problem	No	No, must push GRAY button
Fuse/pump problem	No	Yes
Battery fluid low	Yes	Yes
Pump was activated	Yes	No, must push GRAY button
Power problem	Yes	Yes

SILENCING THE ALARM DURING AN EMERGENCY

The Pro Series 1730 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 GRAY button on the front of the control panel for
- one (1) second to reset the "Pump was activated" alarm, and silence the "Fluid level" and "AC power" alarms for two (2) minutes.
- Press the GRAY 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.
- ① The battery terminals are corroded or the battery is defective

This light and alarm will come on when the control unit detects that there is less than ½ hour of 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 blown, or the outlet is bad. When the problem is corrected, the battery should recharge.
- If the fourth 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, 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 in the next column and on page 11.
- 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 any local car service station. 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 a minimum of one-half (1/2) hour 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 GRAY button on the front panel of the control unit is pressed for one (1) second.

In the event that your Pro Series 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. The battery may need a longer period to recharge. Press the GRAY button on the front panel of the control unit for five (5) seconds to silence the alarm.

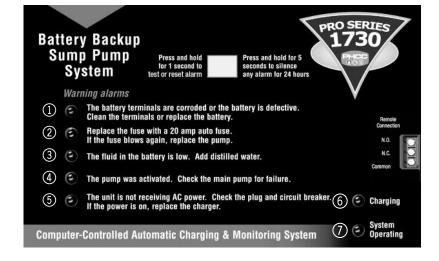
For a faster recharge, an automotive or marine battery charger can be used to recharge the battery. Follow the manufacturer's instructions and safety information included with the charger.

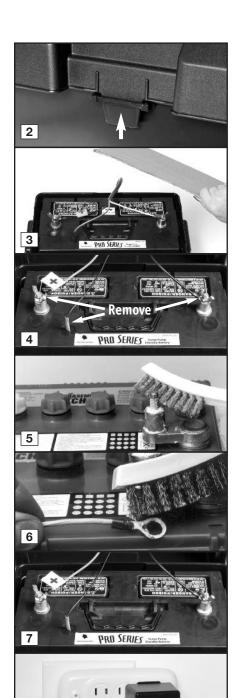
A WARNING

When another charger is used, first disconnect the Pro Series 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.



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 1.





REFER TO THE PHOTOS AT LEFT

- 1. Unplug the charger 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 non-metallic material) to remove any hydrogen or oxygen gas that may have been emitted from the battery.
- Remove the fluid sensor from the battery. Unscrew the wing nuts. 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. Us 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 fluid sensor in the top of the battery. Replace the battery cables, BLACK to the NEGATIVE (-) post and RED to the POSITIVE (+) post. Tighten the wing nuts.
- 8. Plug the charger back into the wall outlet. (You should provide additional protection for the control unit by using a surge protector.)
- 9. If any of the alarms are sounding, press the GRAY button on the front panel of the control unit for one (1) second.

REPLACING THE BATTERY

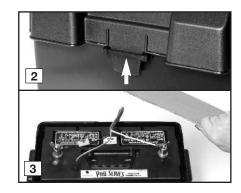
A DANGER

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 1.

REFER TO THE PHOTOS AT RIGHT

- 1. Unplug the charger from the wall outlet.
- 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 non-metallic material) to remove any hydrogen or oxygen gas that may have been emitted from the battery.
- 4. Remove the fluid sensor from the top of the battery. Unscrew the wing nuts and remove the battery cables.
- 5. Remove the old battery from the battery box and place the new battery in the box. Fill the battery following the instructions on page 8.
- 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, BLACK to the NEGATIVE (-) post and RED to the POSITIVE (+) post. Tighten the wing nuts.
- 8. Insert the fluid sensor in the top of the battery. (a) If your battery has six (6) caps on the top, rinse and dry the bottom of the yellow cap with the extra hole from the old battery to remove any residue. Replace the battery cap in the cell that is 2nd from the POSITIVE post with the cap from the old battery. Insert the fluid sensor in the cap. (b) If your battery has two caps, each covering three (3) battery cells, insert the fluid sensor in the top of the battery next to the arrow.
- Plug the charger back into the wall outlet. (You should provide additional protection for the control unit by using a surge protector.)
- 10. If any of the alarms are sounding, press the GRAY button on the front of the control panel for one (1) second.





8

2 Replace the fuse with a 20 amp auto fuse

A DANGER

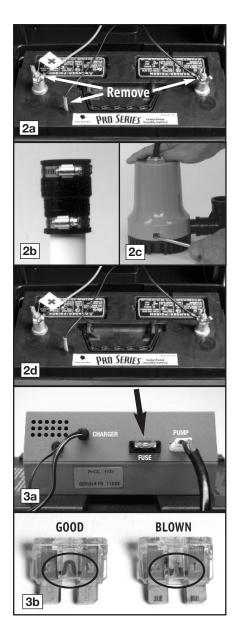
Unplug the main AC pump before servicing the backup pump to avoid electric shock. Failure to do so could cause serious injury or death.

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, or pump wires that have been shorted out. 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 control unit from the wall outlet, and disconnect the battery cables and the fluid sensor. (b) Release the union or check valve and remove the pump and rigid PVC pipe section from the sump pit. (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 BLACK wire to the NEGATIVE (-) post, and then the RED wire to the POSITIVE (+) post. Tighten the wing nuts on the battery posts. (e) Plug the control unit back into the wall outlet.
- 3. (a) Check the DC fuse by pulling it out of the fuse holder. (b) If the wires are burned and broken, replace the fuse with a 20 amp DC 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.





③ The fluid in the battery is low

A DANGER

Risk of electrical shock or battery explosion, which can cause serious injury or death.

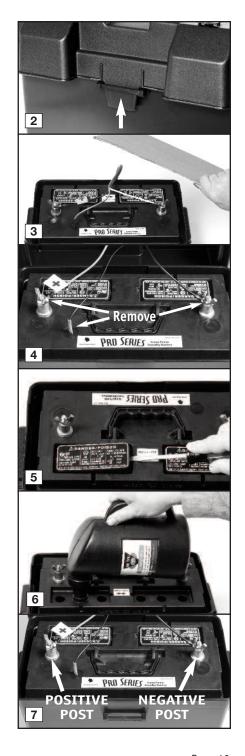
Wear eye protection. Work in a well-ventilated area. Do not smoke or allow a

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 1.

REFER TO THE PHOTOS AT RIGHT

If this warning light and alarm are on, you need to add distilled water to the battery. Battery fluid levels should be checked once every four months.

- 1. Unplug the charger from the wall outlet.
- 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 non-metallic material) to remove any hydrogen or oxygen gas that may have been emitted from the battery.
- Then unscrew the wing nuts and remove the battery cables and the fluid sensor from the battery.
- 5. Remove battery caps.
- 6. Add distilled water to the battery filler bottle and replace the nozzle. Place the battery filler into each cell of the battery and press down. It will fill the battery cell to the correct level and stop automatically. If distilled water is not available, tap water with a low mineral content may be used. Well water is not recommended. NEVER ADD MORE ACID.
- 7. Replace the battery caps. Replace the fluid sensor in the hole on the top of the battery or in the yellow cap, depending on which battery you own. Be sure the fluid sensor is positioned in the second cell from the positive post. The hole is market with an arrow. Replace the battery cables...the BLACK wire to the NEGATIVE (-) post, and the RED wire to the POSITIVE (+) post. Replace the wing nuts and tighten.
- 8. Replace the cover on the battery box.
- Plug the charger back into the outlet. (You should provide additional protection for the control unit by using a surge protector.)
- 10. If any of the alarms are sounding, press the GRAY button on the front of the control panel for one (1) second.





4) The pump was activated

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 it may be too small to handle the inflow of water.
- Make sure the check valve is working and installed correctly
- Make sure the discharge pipe is not clogged or frozen
- If the power was out, the backup pump was automatically activated. You need to push the GRAY button on the front of the control panel to silence the alarm.

REPLACING THE PUMP

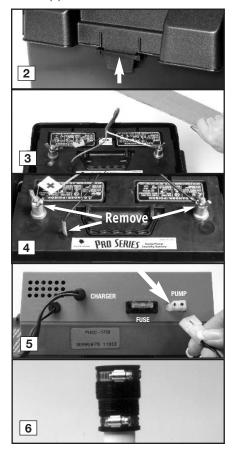
A DANGER

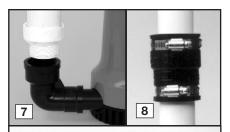
Unplug the main AC pump when installing or servicing the backup pump to avoid electric shock. Failure to do so could cause serious injury or death. Review the safety instructions on page 1.

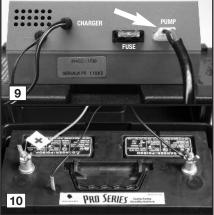
REFER TO PHOTOS AT RIGHT

- 1. Unplug the charger from the wall outlet.
- 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 non-metallic material) to remove any hydrogen or oxygen gas that may have been emitted from the battery.
- 4. Remove the fluid sensor and the battery cables from the battery.
- 5. Unplug the pump from the back of the control unit.
- Release the union or check valve and remove the pump and the rigid PVC pipe section from the sump pit.

- 7. Unscrew the pipe and adapter from the old pump, and screw them into the new pump.
- 8. Lower the pump into the sump and reconnect the union or check valve.
- Plug the pump wires into the back of the control unit.
- 10. Replace the fluid sensor in the battery. Connect the battery cables to the battery...the BLACK wire to the NEGATIVE (-) post, and then the RED wire to the POSITIVE (+) post. Tighten the wing nuts.
- 11. Replace the cover on the battery box.
- 12. Plug the charger and the main AC pump back into the wall outlet. (You should provide additional protection for the control unit by using a surge protector.)
- 13. If any alarms are sounding, press the GRAY button on the front of the control panel for one (1) second to silence them.







(5) The unit is not receiving AC power

There are several causes for power failure. The most common is a power outage by your electric company. During this emergency, the Pro Series system will automatically switch to battery power and protect your basement from flooding.

You can silence the "AC power failure" alarm for 24 hours by pressing the GRAY button on the front of the control panel for five (5) seconds. The alarm will be silence, 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.

- If the power is on in the rest of the house, check the home circuit breaker or fuse box for failure, and correct the problem.
- 2. Check the charger. Make sure it is securely plugged into the wall outlet. Check the outlet to make sure it is working.
- 3. Check the charger plug that fits into the rear panel of the control unit. Make sure it is securely plugged into the control unit.

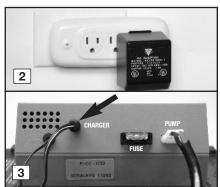
The control unit must receive 115 volts AC +/-5% from the AC outlet. Any voltage lower than

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 "AC power failure" warning light is still on, replace the charger unit with the Pro Series part number 1015001 from Glentronics at 800-991-0466, option #3.

(6) Charging

The Pro Series 1730 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 or flashing while the battery is charging, and off when it is not charging. If the battery is discharged from extended use, the charger light will remain on until the battery is completely recharged.



System Operating

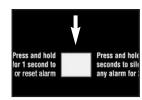
This light will always be on when there is power coming from either the battery or the outlet.

TEST-RESET-SILENCE BUTTON

To test the pump, press the GRAY button on the front of the control panel for one (1) second. The pump will run for 2 seconds and then shut off automatically.

To silence an alarm, press the Gray button for one (1) second. Some alarms cannot be silenced, since action needs to be taken to prevent a flood.

To silence the alarms for 24 hours, press the GRAY button for five (5) seconds until you hear a buzz. The alarms



will automatically reactivate in 24 hours.

TESTING THE FLOAT SWITCH

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

A DANGER

Unplug the main AC pump when installing or servicing the backup pump to avoid electric shock. Failure to do so could cause serious injury or death. Review the safety instructions on page 1.

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. While the pump is active,



water will come out of the 1/8" hole that was drilled into the PVC discharge pipe. This is normal. The hole is needed to prevent an air lock within the system. **DO NOT** obstruct the hole or an air lock may prevent the system from activating. 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 was activated" light will go on. After the pump has stopped, push the GRAY button to silence the alarm. **BE SURE TO PLUG IN THE MAIN AC PUMP WHEN YOU HAVE COMPLETED THE TEST.**

THE REMOTE TERMINAL

The PHCC Pro Series 1730 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 Pro Series control unit. Strip the two wires, 1¼" 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).

MAINTENANCE CHECK LIST

Maintenance should be performed 1-2 times per year

- 1. Lift the float switch as described at above.
- 2. Remove all debris from the bottom of the pit.
- 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 bleed hole.
- Remove the fluid sensor and yellow cap from the battery and rinse any residue buildup from the bottom of the battery cap. Replace the cap and fluid sensor.
- 8. Check the battery fluid levels once every four months.

PARTS & SERVICE INFORMATION

You can receive technical support parts or service information by calling Glentronics, Inc. at 800-991-0466, option #3, or by visiting the Pro Series website at www.stopflooding.com. Send your unit to the following address if repairs are needed:

Glentronics, Inc., 645 Heathrow Drive, Lincolnshire, IL 60069-4205

Troubleshooting Guide	DANGER Read safety	
Potential Cause	BATTERY FLUID LO	W Solutions
The battery fluid is low	Add distil. The fluid the Pro So This featu the batte	
Potential Cause	BATTERY PROBLEM	4 Solutions
Terminals are corroded Cables are loose Battery is discharged below 25% Battery is old or damaged	Tighten w	ring nuts
Potential Cause	POWER FAILURE	Solutions
Power outage	None. The button to button to button to Try anoth Make sure	e backup pump will run off the battery. Press and hold the reset silence the alarm for 24 hours er outlet, replace the fuse, or reset the circuit breaker the power cord is plugged in securely he utility company has instigated brown outs. Otherwise, reduce er of other appliances on the circuit
Potential Cause	PUMP FAILURE	Solutions
Backup pump is unplugged Backup pump is clogged Backup pump is broken		the pump is securely plugged into the back of the control unit trainer from pump and clean out any debris he pump
Potential Cause	DIIMD WAS ACTIVAT	ED C.L.C.
	LOWL MAS ACITAN	ED Solutions
The float switch on the main pump is stuck or d The main AC pump is broken The main AC pump could not keep up with the in	tage None. Th lefective Free the f Replace t flow of water . None. Th lem, insta	e backup pump was activated when needed loat switch on the main pump or replace it he main AC pump
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If the listed 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 at 800-991-0466 option 3.

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") 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:

• 3 years from the date of purchase, when used intermittently as a sump pump

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 three (3) 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. 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., 645 Heathrow Drive, Lincolnshire, IL 60069

How Can I Obtain More Information?

By calling 800-991-0466

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