

PITBOSS

BATTERY BACKUP SYSTEM

12V DC BATTERY
BACKUP SUMP
PUMP SYSTEM

INSTALLATION AND OPERATING INSTRUCTIONS

A RICHTECH INDUSTRIES PRODUCT

RICHTECH INDUSTRIES



SSBOS12

The PitBoss Battery Backup System is designed to automatically remove water from a sump pit during a power outage or if the primary sump pump fails to operate properly.

The PitBoss Battery Backup System is not intended as a long term replacement for a primary sump pump. This unit must be installed with a working primary sump pump.

This complete kit includes a high performance DC sump pump, solid state system controller, float sensor and battery case.

PUMP PERFORMANCE

| | |
|-------------|--------------------|
| 15' LIFT | 1860 GALLONS/HR |
| 10' LIFT | 2580 GALLONS/HR |
| 5' LIFT | 3150 GALLONS/HR |



SAVE THESE IMPORTANT SAFETY INSTRUCTIONS!

READ ALL INSTRUCTIONS CONTAINED IN THIS MANUAL BEFORE USING THIS PRODUCT.

Save these instructions for future reference. Failure to read and follow the warnings and instructions within this instruction manual could result in property damage, serious injury or death.

SAFETY FIRST!

READ ALL INSTRUCTIONS BEFORE USING THIS PRODUCT.



WARNING

WARNING INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH, SERIOUS INJURY OR MAJOR PROPERTY DAMAGE.



RISK OF ELECTRIC SHOCK. TO REDUCE THIS RISK, OBSERVE THE FOLLOWING WARNINGS:

WARNING! To reduce the risk of electrical shock, this pump must be properly grounded in accordance with the National Electric Code (NEC) and all applicable state and local codes and ordinances. The receptacle should be protected with a Ground Fault Circuit Interrupter (GFCI).

WARNING! To reduce the risk of electrical shock, always disconnect the pump from the power source **BEFORE** handling or servicing.

WARNING! Never remove the ground prong from the plug, or use an adapter that eliminates the ground prong.

WARNING! Never plug this pump into an electric outlet while standing on a wet surface.

WARNING! Cable should be protected at all times to avoid punctures, cuts and abrasions that may result in exposed wiring. Never handle connected power cords with wet hands.

WARNING! This Submersible Sump Pump has not been investigated for use in or around swimming pools, marine areas, recreational water installations, decorative fountains or any installation where human contact with the pumped fluid is common.

WARNING! Do not use an extension cord. Extension cords could present a safety hazard if not properly sized, become damaged or the connection falls into the sump pit.



RISK OF EXPLOSION. TO REDUCE THIS RISK, OBSERVE THE FOLLOWING WARNINGS:

WARNING! Do not use to pump flammable or explosive liquids such as gasoline, fuel oil, kerosene, etc.

WARNING! Do not use in a flammable or explosive atmosphere.



NOT SUITED FOR POTABLE WATER APPLICATIONS.

WARNING! Do not use this pump to transfer water that will be used for potable (drinking) water. This pump is only to be used in applications for which it is designed.



WARNING

CAUTION INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, MAY RESULT IN MINOR INJURY OR PROPERTY DAMAGE.



TO REDUCE THE RISK OF HAZARDS THAT CAN CAUSE INJURY OR PROPERTY DAMAGE, OBSERVE THE FOLLOWING WARNINGS:

CAUTION! Do not block or restrict discharge hose. Discharge hose may whip under pressure. It is strongly recommended to use rigid piping and fittings to secure the pump in the sump basin to reduce movement.

CAUTION! Do not install the pump if it has been damaged in any way.

CAUTION! Do Not carry or lift the pump by the power cord. Use the pump's lift ring.

CAUTION! For indoor use only.

CAUTION! This pump is designed to pump ground water only. Do not drain washing machines or other appliances into the sump pit. This will void your warranty.

CAUTION! Do not attempt to disassemble any part of the system. There are no user-serviceable parts or repair options.

BATTERY INFORMATION

This system is designed to operate reliably with an SLA Deep Cycle Marine Battery (not included).

The use of an AGM battery is strongly recommended. The use of wet-cell batteries is strongly discouraged. Automotive batteries are not suitable for this application and will result in system failure.

WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY:

- WEAR SAFETY GLASSES WHEN CONNECTING OR DISCONNECTING THE BATTERY.
- KEEP SPARKS AND FLAMES AWAY FROM THE BATTERY.
- KEEP METAL TOOLS FROM CONTACTING THE BATTERY POSTS AND CREATING A SHORT ACROSS THE TERMINALS. A SHORT CIRCUIT MAY CAUSE AN EXPLOSION.
- FOLLOW ALL INSTRUCTIONS PUBLISHED BY THE BATTERY MANUFACTURER. FAILURE TO DO SO MAY RESULT IN PROPERTY DAMAGE, SERIOUS INJURY OR DEATH.

SYSTEM OPERATION

The Pitboss Battery Backup System is an automatic system and will automatically operate during a power outage or when the primary sump pump fails to operate. The System automatically maintains and recharges the battery.

The Pitboss Battery Backup System performs a full system test daily. The system will cycle the backup pump and test the battery performance. If any issues are found during the self test, the appropriate alarm message will be displayed, and the audible alarm will be activated.

USING THE CONTROLLER BUTTONS

The Pitboss Battery Backup System features two push buttons on the controller.

The PUMP TEST button activates the backup pump. The pump will continue to run as long as the button is pressed. Do not run the backup pump in a dry sump pit for extended periods.

The ALARM MUTE button will silence the audible alarm for 24 hours when pressed. It will also clear the alarm message from the LCD screen, so take note of the cause of the alarm. If the same alarm repeats during the 24 period, the audible alarm will not sound. If a different alarm is triggered during this period, the audible alarm will sound. Pressing the alarm mute button a second time will cancel the alarm mute.

To activate the 24-hour system test, press and hold the ALARM MUTE button. This will activate the full system test sequence.

MESSAGES

The Pitboss Battery Backup System displays system information on the Message Center. There are two types of messages: **Informational** and **Alarms**.

Informational messages do not require immediate attention and do not sound an alarm. If more than one message is active, they rotate on the display.

Alarm messages require your immediate attention and will sound the unit's audible alarm. If more than one alarm is active, they rotate on the display. Alarm messages take precedence over information messages, no informational messages are displayed when there is an active alarm.

INFORMATIONAL MESSAGES

| | | |
|------------------|---|--|
| System OK | Displayed when no messages active or after alarm muted. | System is working properly |
| Pump Running | Displays when the pump is on, showing in seconds the length of time the pump is on. | System is working properly |
| AC Power Failure | Displayed if AC power is lost. | Check that unit is plugged in. Check GFI/breaker for trip. Normal during power loss. |

ALARM MESSAGES

| | | |
|-------------------|---|---|
| Reverse Polarity | Battery Red/Black leads are connected backwards. | Connect leads to correct terminals. |
| PWR OK/ Backup On | Backup pump is on while AC power is present. | Check primary sump pump for proper operation. Replace sump pump if necessary. |
| CHECK PUMP | Backup pump active but no current draw is detected. | Check that pump cord is firmly connected to controller jack. Call for service. |
| Batt Low Voltage | Battery voltage drops below 11.4 volts (50% discharged). | Check that unit is plugged in. Check GFI/breaker for trip. Normal during extended power loss. |
| Batt Crit Voltage | Battery voltage drops below 10.4 volts (90% discharged). | Check that unit is plugged in. Check GFI/breaker for trip. Replace battery if power remains out. |
| Auto Test Failed | System fault detected during system self-test. Alarm message will be displayed alternately. | Correct the issue in the displayed alarm message. |
| Excessive Runtime | Backup pump has run more than 50 seconds. | Check that backup float sensor can move freely, not caught on wires. Normal during extremely heavy rains. |
| Check Fuse / Batt | Blown Fuse | Check that pump cord is firmly connected to controller jack. Call for service. |
| Batt Not Detected | No battery is detected. | Check battery connections. Replace battery if necessary. |

