

## EASY INSTALLATION INSTRUCTIONS FOR BASEMENTSAYER BP3 BATTERY POWERED BACKUP SUMP PUMP – Basementsaver Backup Sump Pumps Outlet



***Congratulations On Purchasing Your Basementsaver BP3 Battery Backup Sump Pump! You Should Soon Have Your Pump Smoothly And Efficiently Protecting Your Basement. Just Follow These Easy Installation Instructions And It Is Difficult To Go Wrong***

***It Really Is IMPORTANT That You Take The Time To Read All Of The Instructions Related To The Installation & Operation Of Your Battery Backup Sump Pump BEFORE Attempting To Install It!***

*If you have questions or concerns just contact **Basementsaver** – we're here to help you.*

### **Basementsaver BP3 Low-Maintenance Battery Powered Emergency Basement Sump Pump System For Commercial Sump Pits With Very High Pumping Rate:**



**Basementsaver BP3 Emergency Battery Powered Backup Sump Pump Removes 3,000 gal/hr Average From Your Sump Pit, Assuming A 10ft Lift To Discharge.**

**This Very Powerful Battery Backup Pump Is Designed To Fit Beside Or Above Your Existing Primary Sump Pump, Inside Your Sump Pit.**



**The BP3 Uses 115V AC Power, Supplied From A 12V DC Battery, Via A 1,800W Continuous DC-AC Inverter.**

**It Comes Complete With A Battery Charger, Battery Box & Cables, Discharge Pipe & Check Valve, And Other Fittings & Clamps Required For Easy Homeowner Installation.**

**After Installation, Please Place These Instructions Back Into The Plastic Bag They Came In And Use The Enclosed Beaded Tie Wrap To Hang Them On Or Near Your Basementsaver BP3 Battery Powered Backup Sump Pump For Future Reference!**

## Basementsaver BP3 Battery Backup Sump Pump Easy Installation Instructions

**BEFORE** you begin installing your pump, **Please Read ALL Instructions.** The pumping capacity of Your BP3 pump may vary depending upon your specific piping configuration, battery age, and battery capacity.

 <p><b>WARNING</b></p>	<p><b>ELECTRICAL SHOCK HAZARD</b> Disconnect power before installing or servicing this product. A qualified service person must install and service this product according to applicable electrical and plumbing codes.</p>	 <p><b>WARNING</b></p>	<p><b>EXPLOSION OR FIRE HAZARD</b> Do not use this product with flammable liquids. Do not install in hazardous locations as defined by National Electrical Code, ANSI/NFPA 70.</p>
<p>Failure to follow these precautions could result in serious injury or death. Replace product immediately if switch cable becomes damaged or severed. Keep these instructions with warranty after installation. This product must be installed in accordance with National Electric Code, ANSI/NFPA 70 so as to prevent moisture from entering or accumulating within boxes, conduit bodies, fittings, float housing, or cable.</p>			

### If You Have Questions:

If you have any questions visit [www.basementsaver.com](http://www.basementsaver.com) or e-mail [service@basementsaver.com](mailto:service@basementsaver.com) with your question or call 1-866-374-3977 for help.

Customer Support Hours Are 9am-5pm EST, Mon – Fri (Excluding Holidays)



**Ultimate backup sump pump protection for large residential / commercial basements with extremely high sump flow.** The NEW Basementsaver BP3 Battery Backup Pump design provides highly efficient and powerful emergency pumping from a very compact unit. Our most powerful backup sump pump runs on 110V AC electricity using an inverter connected to one or two 12V batteries, and a battery charging / maintenance system. **Basementsaver BP3 offers higher pumping capacity than most 1/3 HP or 1/2 HP Primary Sump Pumps.**

<p><b>Specifications</b></p> <p>Pump Motor: 115 VAC, 4.7 Amps, ½ HP</p> <p>Battery Charger: 1.0 AH @ 12 VDC, 0.4 Amp Load</p> <p>Charger Service: 120 VAC, 60 HZ, GFCI Outlet</p> <p>Float Switch: Vertical Style, with mounting clamp</p> <p>High Water Alarm: 85 dBA 9VDC</p> <p>Battery Requirements: 12V Marine deep cycle or Sealed Lead acid, Size 27 (NOT Included)</p> <p>Basementsaver BCC Optional Extra battery case is available to double pumping time at the same pumping rate</p>	<p><b>Physical Size:</b></p> <p>Pump Size: Diameter: 8" Height: 12"</p> <p>Battery case L: 17", W: 9-1/2", H: 11"</p> <p>Pump weight: (without battery): 11 Lb</p> <p>Total shipping weight: 35 Lbs.</p> <p>2" or 1½" PVC Discharge Capable</p>
<p><b>Flow Rates:</b></p> <p>At 5 feet 3300 Gallons Per Hour</p> <p>At 10 feet 3000 Gallons Per Hour</p> <p>Do not exceed 22 feet total lift; pumping capacity will be reduced**</p>	<p><b>Pumping Times:</b></p> <p>Using Marine Deep Cycle Battery/10 second cycles</p> <p>At 1 minute intervals 12 Hours</p> <p>At 5 minute intervals 24 Hours</p> <p>At 15 minute intervals 48 Hours</p>
<p><b>Included Parts:</b></p> <p>Submersible Pump Unit on Integrated Suction/Discharge Stand</p> <p>Battery Case with Cover &amp; Cables (Battery not included)r</p> <p>Vertical Switch to activate pump (pre-wired piggyback plug)</p> <p>Battery Charger with Cables</p>	<p>12VDC-115VAC 1,800W Inverter</p> <p>Discharge Pipe Kit with 4ft Flexible Hose</p> <p>High Water Alarm</p> <p>Installation Instructions; safety specifications</p>
<p><b>Additional Parts &amp; Supplies Needed:</b></p> <p>Check valve for primary pump (existing?)</p> <p>PVC Primer and Cement (small cans) for PVC connections</p> <p>Teflon Tape or Pipe Sealant (Dope) for threaded connections</p> <p>Deep Cycle Marine, Lead Acid, Gel, or AGM Battery (Purchase Locally!)</p>	<p><b>Tools Needed:</b></p> <p>Hand saw and/or PVC cutting tool</p> <p>Phillips and slotted screwdrivers</p> <p>Utility knife, tape measure, large adjustable pliers</p>

**Next, Please Record Your BP3 Battery Backup Sump Pump Information Below:**

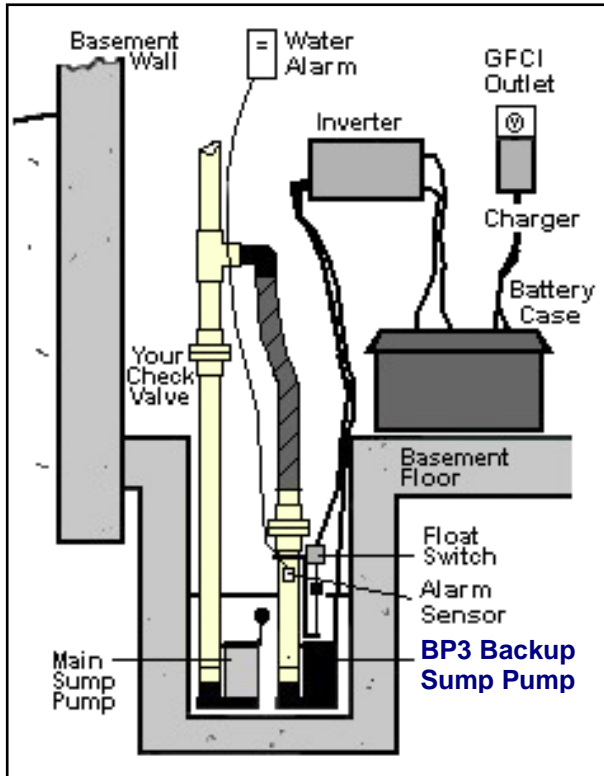
**Model No. BP3    Serial No: \_\_\_\_\_    Installation Date: \_\_\_\_\_**

## Basementsaver BP3 Battery Powered Backup Sump Pump Step By Step Installation Instructions

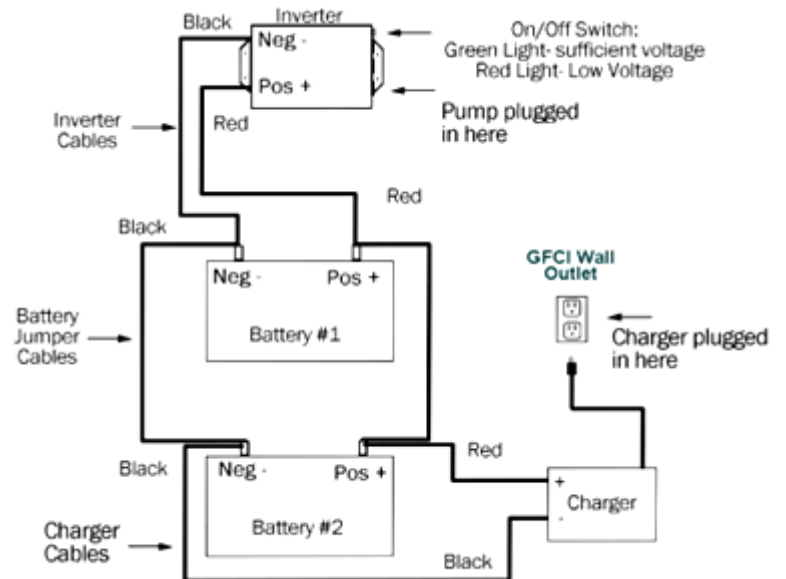
**NOTE:**The **Basementsaver BP3 Backup Pump** Is A Very Powerful Sump Pump. Use Teflon tape or pipe sealant (dope) on ALL threaded fittings. Use PVC Primer & Cement on ALL socket joints.

You may choose to install the BP3 using two size 27 marine deep cycle batteries which will double your total pumping capacity for extended pumping times. An extra BCC battery case and cables is available.

BP3 Installation Diagram



Wiring Schematic



You may double total pumping capacity by using 2 batteries to power your BP3 battery backup sump pump.

### Step 1 - BP3 Pump Unit Assembly:

Remove all packaging and materials and hang all wires over the side and out of the battery box(es). Before placing the pump into the sump pit, find the 1½" PVC male threaded adapter, 1½" pipe with vent hole, check valve, PVC Female adapter, and straight black polypro barbed male hose adapter.

- Cement the 1½" PVC male threaded adapter onto the *bottom end (with vent hole)* of the pipe.
- **Let the PVC cemented joint set.**
- Screw this pipe assembly into the sump pump discharge opening (in the sump pump base).  
*Hint – installing PTFE (Teflon) tape on the discharge pipe screw threads will help*
- Cement the *top end* of the pipe (without *vent hole*) into the bottom of the check valve.  
**The flow arrow on the Check Valve MUST point upward!**
- Cement the spigot end of the PVC female adapter into the top of the check valve.  
**Do NOT drip glue into the check valve!**
- **Let the PVC cemented joints set.**
- Thread the male pipe threads of the straight black polypro barbed male hose adapter into the female threaded opening of the adapter that you just glued into the top of the check valve.



### **Step 2 – Float Switch Assembly:**

**Either** leave the float switch attached to the pump unit and set the pump unit on a block to attain the required height in your sump pit.

**Or** if you prefer to sit the pump unit in the base of your sump pit, remove the float switch bracket from the pump unit and attach the enclosed stem into the last screw hole of the bracket. Then use the supplied hose clamp to attach the stem securely around the discharge pipe at the required elevation.



### **Step 3 – Backup Pump Placement:**

Place the assembled BP3 backup pump unit into your sump pit (see Step 2). Make sure that float operation is not impeded by the sump pit walls, wires, pipes, or your primary sump pump float.

**NOTE:** If you choose to elevate the backup pump unit in the sump pit so that it sits above the primary pump the backup pump float **MUST** be set so that it cannot run dry.

### **Step 4 – Discharge Line Assembly:**

**NOTE:** If you expect the BP3 backup pump to supplement the pumping capacity of your primary sump pump in high flow situations, consider upgrading to a 2" discharge pipe to handle the high flow rates produced when both pumps are running at the same time. A 2" Tee fitting is provided for this purpose.

Unplug your primary (ac) sump pump and it's discharge pipe. **A high quality, fully functioning check valve *MUST* be present above the main pump and below the BP3 Backup Pump discharge Tee connection.** Without it, the BP3 Backup Pump will not operate properly, and it may recycle water down through your main pump and back into your sump. A **removable type check valve** is recommended, in order to service the main pump in the future without disconnecting the backup pump.

**For A 1½" PVC Discharge Line:** Glue the bushings provided, into the Tee fitting. If you are using a 2" discharge they are not needed - so set them aside.

**For A 2" PVC Discharge Line:** Thread the male bushing into threaded opening of the 2" Tee and connect the male threaded end of the black polypro elbow securely into the bushing. Use the flexible hose from the pump to the discharge pipe of the main sump pump, at a point above the existing check valve, to determine the proper position of the tee. Mark the location of the assembled Tee fitting on the pipe. Hose may be cut to fit using a utility knife or hack saw.



Squarely cut and remove a 2" section from your primary sump pump discharge pipe at the marked location. Glue the Tee into position in the primary pump discharge pipe; turn it to face correct direction before it sets! While it sets, place a stainless steel hose clamp on each end of the hose and push on the flexible hose to the pump discharge and to the Tee assembly using the black barbed hose connectors. Twist clockwise to help with this step. Tighten the hose clamps at both ends.

### **Step 5 – High Water Alarm:**

Refer to the simple instructions included with the alarm, and keep them with your BP3 documentation for future reference.

### **Step 6 – BP3 Inverter Installation:**

**NOTE:** The battery cables are 6ft long and must reach from the right side of the inverter to the battery. Position the power inverter in the desired location on an adjacent wall and attach it using the supplied wood screws. The inverter unit is fairly heavy and should be securely attached. You may need to obtain the correct type of wall anchors to fit your specific wall type.

### **Step 7 – BP3 Wire & Cable Installation:**

**Battery:** Remove wing nuts from battery terminals and set aside for securing cables later.

**Battery Charger:** The battery charger is supplied with both ring terminals and alligator clips. Use the ring terminals for the sump pump (the alligator clips are included as a courtesy for other types of temporary charging needs - A convenient inline connector is used for easy change out). Place the Red (+) ring terminal from the charger to the positive battery terminal and the Black (-) ring terminal to the negative battery terminal. **Do not plug the charger in yet.**



**Inverter / Battery Connections:** Connect the supplied battery cables to the inverter terminals, Red cable to the positive “Red 12V” DC terminal and Black cable to the negative “Black 12V DC”. Attach the other ends of each cable to the battery terminals, Red to positive and Black to negative. Next, tighten the wing nuts on the battery terminals. Ground the inverter by attaching a #12-14 AWG wire from the inverter ground terminal to a cold water pipe using a grounding clamp.

**Dual Battery Case (Optional):** Highly Recommended – For Maximum Protection You may use a second battery with the BCC Dual Battery Case kit (sold separately). Using the 2 foot long cables supplied with the kit, connect from one battery to the other using the Red cable to each positive (+) battery terminal and the Black cable to each negative (-) battery terminal. See the wiring schematic on page 3.



**Pump & Float / Inverter Connections:** The float is supplied with a “piggyback” type plug. The sump pump is to be plugged into the piggyback plug of the float and together both are plugged into ONE of the inverter outlets.

**Charger On:** Plug the charger into 110-120V GFCI protected wall outlet. A heavy gauge extension cord maybe used if necessary. The charger is now charging and/or monitoring the battery / batteries.

## **Basementsaver BP3 Battery Powered Backup Sump Pump Start-Up And Operation Instructions**

### **1. Start Up Procedure:**

**Locate the red toggle switch on the side of inverter and switch to the on position.**

**Testing:** Fill the sump with water from a hose if needed to test for proper installation:

- Confirm that the float switch is in the correct position, if not loosen the clamp slightly and rotate on the pipe if needed. Also confirm that the height correctly set. Adjust float and re-tighten securely.
- Confirm that all joint connections are secure and not leaking. Correct as necessary.
- The water alarm sensor may have to be repositioned to prevent nuisance alarming from incoming water or spray from the vent hole.
- After making any adjustments to the float, pipe, and/or alarm sensor, repeat all start-up Testing above if necessary.

**Battery charging:** A new battery, or one that's discharged, may take 24-48 hours to fully charge.

**DON'T FORGET TO PLUG YOUR PRIMARY PUMP BACK IN WHEN YOU ARE FINISHED!!**

## **2. Maintenance Procedures:**

**Every 3 months** lift the backup pump float by hand and confirm pump operation and water removal. Confirm that the float is allowed to move freely and hits no obstacles. Check the battery age and charger status lights. The red light must be on to show that the charger is powered from the wall outlet. The yellow light indicates charging is taking place. The green light should be on when charging is complete and the charger is in float mode. This is an automatic charger; no adjustments or maintenance are required.

## **3. Troubleshooting The Pump, The Inverter, The Charger:**

### **3.1. Troubleshooting The Pump:**

#### **The Backup Pump Is Running But No Water Is Being Removed From Your Sump**

- **Clogged suction or discharge pipe** - Clear obstruction and restart.

#### **The Backup Pump Is Removing Low Volumes Of Water**

- **Suction or discharge piping may be partially clogged which restricts water flow** - Clear the obstruction.

- **Excessive discharge pipe length and/or configuration can produce a large pressure drop** - Accept the lower flow or change the piping layout, direction, length, etc.

- **Battery may need charging or replacing** - A new battery often needs 24 - 36 hours of charging. If it is more than 3 years old, it is likely to need replacing.

- **Check all PVC joints and confirm that they are cemented and leak-tight** - Air leaks reduce pumping capacity.

#### **The Backup Pump Will Not Turn On Or Off Properly.**

- **Float must be fully down for off and fully up for on** - Adjust the float by hand to each position required to test the pump. Re-position the clamp on the suction pipe, or the rubber stopper on the bottom of the float rod, if necessary, to assure proper operation.

- **Battery terminals may be connected improperly** - Correct and tighten securely.

### **3.2. The Inverter:**

#### **Dispersion Of Heat**

The inverter will get warm during extensive operation. This indicates that the unit is functioning properly. The amount of heat generated will vary with the power draw of the backup pump. In order for proper heat dissipation to occur, ensure that air is allowed to circulate freely around the unit. A fan will come on in cases were the unit is operating at maximum power output and/or for an extended period of time. This unit features overload temperature protection.

### **3.3. The Battery Charger:**

**The Battery Charger Should Only Be Used On The Appropriate Output Voltage Systems. Improper Use Could Cause The Battery To Explode, Resulting In Fire, Personal Injury, And Damage To The Charger.**

**DANGER** – Extreme caution should be taken when working in the vicinity of all types of batteries. Lead acid and AGM batteries emit flammable gases during normal operation and while being charged. Open flames, matches, smoking materials, or other means of ignition should not be used near the batteries. The AC power source to the charger must be turned off when working on or disconnecting the charger to avoid sparks. The battery case cover or a temporary cover of non-conductive material should be placed over the battery when working near it to prevent sparks from tools being dropped on it.

**DANGER** – Electricity can kill – The AC power supply to the charger should always include an equipment grounding conductor. Never use a two-blade to three-blade plug adaptor or an extension cord with a male plug having only two blades. Always use an AC receptacle with a three-blade outlet and an extension cord with a three-blade male plug. Always unplug or turn off the AC power supply at the main distribution panel when working on the battery charger. Avoid working on or connecting power to the charger with wet hands or under wet conditions.

**Operating The Battery Charger** - Your battery charger is waterproof, but whenever possible, it is best to place the charger in a dry location, not in open areas exposed to rain, or in locations that are subject to wash down or water-spray. The Battery Charger is designed to work with lead acid (flooded), absorbent glass mat (AGM) batteries, or Gel type batteries. Charge time will vary depending on the ampere-hour rating of the battery. The Battery Charger generates a moderate amount of heat while charging. The temperature of the unit may rise up to 35°C/ 95°F above the charger environment temperature. Please exercise caution when handling the charger while in use. **The Battery Charger is a self-contained unit that requires no maintenance under normal operating conditions.**

### **Battery Charger Troubleshooting**

**Lost AC Power** - Check for open AC line fuse or circuit breaker. Check for wiring or other causes for fuse failure or circuit breaker tripping.

**Lost DC Output To Battery** - Check for poor battery connections: check the DC output battery cable connections at the battery and at the charger's DC output terminal strip. Check for an open DC fuse, faulty wiring or other causes of fuse failure

**Lost AC Power Supply** - Obtain service from a qualified service provider.

### **AGENCY LISTINGS**



Tested to  
CSA 22.2 108 Standards  
By Canadian Standards  
Association



Underwriters  
Laboratories

### **Basementsaver Battery Backup Pump 30 Day Customer Satisfaction Guarantee**

*Within 30 days of purchase, if you are not completely satisfied with your **Basementsaver Battery Powered Backup Sump Pump**, The Company will refund your money, in full, excluding shipping charges.*

*Please Call **1-866-374-3977** to process return or to receive Technical Assistance. Please give your name, address, phone number, date of purchase, and model number.*

### **Basementsaver Battery Backup Pump 2 Year Limited Manufacturers Warranty**

The manufacturer warrants this **Basementsaver Battery Powered Backup Sump Pump** against *defects* in material and workmanship for a period of 2 Years from the date of the shipment.

In the event of any defect in the pump unit within the warranty period, The manufacturer will, at its option, replace or recondition the product without charge providing the product is returned, prepaid to our warehouse in Buffalo, New York. This shall constitute the exclusive remedy for any alleged defect. The manufacturer shall not be responsible for any incidental, indirect, contingent, or consequential damages, including, without limitation, damages or other costs resulting from labor charges, delays, loss of use, revenue or profit, vandalism, negligence, fouling, caused by foreign material, damage from peculiar water conditions, chemicals or other circumstances over which the manufacturer has no control. The manufacturer makes no other warranties, express or implied, except as provided in this limited warranty. This warranty becomes void by any misapplication, misuse, abuse, or improper installation of the product. This warranty gives you specific legal rights and you may also have other rights which may vary from state to state. *Warranty Applicable in the USA and Canada, Only.*

### **Basementsaver Battery Backup Pumps Return Policy**

*If you need to return an uninstalled and unused pump please Call **1-866-374-3977** for return information.*

*If the pump has been installed and you choose to return it, please Call **1-866-374-3977** for return approval.*

*Please be prepared to give your name, address, phone number, date of purchase, and model number.*

*The Manufacturer is not responsible for any cost incurred with removal or pump repairs. Proper packaging of the returned product is the customer's responsibility, and any damaged goods, or goods damaged in transit as a result of improper packaging will not be considered for credit.*

**After Installation, Please Place These Instructions Back Into The Plastic Bag They Came In And Use The Enclosed Beaded Tie Wrap To Hang The Bag On Or Near Your Basementsaver BP3 Battery Backup Sump Pump For Future Reference!**