

## EASY INSTALLATION INSTRUCTIONS FOR BASEMENTSAVER BP0/BP1 BATTERY POWERED BACKUP SUMP PUMPS – Basementsaver Backup Sump Pumps Outlet



***Congratulations On Purchasing Your Basementsaver BP0 or BP1 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 BP0 or BP1 Low-Maintenance Battery Powered Emergency Basement Sump Pump System For Residential Sump Pits With Normal Flow Rates:**



**Basementsaver BP0 & BP1 Emergency Battery Powered Backup Pumps Remove 900 gal/hr & 1,800 gal/hr Average, Respectively, From Your Sump (Assuming A 10ft Lift To Discharge).**

**These High Quality Emergency Battery Backup Sump Pumps Hang In Your Sump Pit, Above Your Primary Sump Pump, On Stainless Steel Supports.**

**If Your Primary Pump Fails, The Rising Water Level Activates These Powerful Battery Backup Sump Pumps, Which May Run For Days On A Single Battery Charge, To Keep Your Basement Dry.**

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

## Basementsaver BP0 & BP1 Battery Backup Sump Pumps Easy Installation Instructions

**BEFORE** you begin installing your pump, **Please Read ALL Instructions.** The pumping capacity of Your BP0 or BP1 pump may vary depending upon your specific piping configuration, battery age, and battery capacity.

<b>⚠ WARNING</b>	<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.	<b>⚠ WARNING</b>	<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.
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.			

Specifications	BP0	BP1
Pump Motor:	12VDC	9 Amps
Battery Charger:	1.0 Ahr @ 12VDC, 0.4 A Load	
Pump Unit Dimensions	6"H x 6"Dia	7.5"H x 6"Dia
Discharge Hose Diameter	1" Dia	1.5" Dia
Charger Service:	120 VAC, 60 Hz, GFCI Outlet	
Float Switch:	Tether type with mounting Clamps	
Water Alarm:	Integrated, operated by float	
Battery Requirements:	12 Volt Marine Deep Cycle, Sealed Lead Acid, AGM, or Gel: Size 27	
<i>Note: Battery Not Included</i>	<i>(Marine Deep Cycle Size 27 Required)</i>	
<b>Flow Rates: gal/hr</b>	<b>BP0</b>	<b>BP1</b>
5 Foot Lift	1,300	2,600
10 Foot Lift	900	1,800
<b>Pumping Times (1 battery):</b>	<b>BP0 (30s cycles)</b>	<b>BP1 (15s cycles)</b>
At 1 Minute Intervals	12 Hours	12 Hours
At 5 Minute Intervals	48 Hours	48 Hours
At 15 Minute Intervals	96 Hours	96 Hours
<i>Note: You may use 2 batteries to double these pumping times</i>		

- Included Parts:**
- Motorized Submersible Pump & Float Switch
  - Battery Case with Junction Box Attached
  - Plug-In Battery Charger
  - Stainless Steel Floor Mount Bracket
  - Installation Instructions
  - Tether Float with Clamps for Bracket Mount or Pipe Mount
  - PVC Tee, Check Valve, Adapters, Cable Ties & Clamps
  - Discharge Hose with 2 Hose Clamps

- Additional Parts & Supplies Needed:**
- Check Valve for Main Sump Pump
  - PVC Primer and Cement
  - Thread Sealing Tape or Paste
  - 12 V Deep Cycle Marine Battery (See Above)

**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 716.775.0206 for help.

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



**Next, Please Record Your BP0/BP1 Battery Backup Pump Information Below:**

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

## Basementsaver BP0/BP1 Battery Powered Backup Sump Pump Step By Step Installation Instructions

The **Basementsaver BP0/BP1 Backup Pump** Is Designed To Be Submersed During Backup Pumping Operation, but while your primary sump pump is working correctly the backup pump unit will remain dry, sitting just above the normal water surface. The backup pump unit is activated by a rising water level when your primary pump fails. This backup pump is very powerful, but it is not meant to act as a long-term replacement for your primary sump pump.

**Step 1** – Adjust the water level in your sump pit to be at the point when your primary pump begins pumping. **Unplug Your Primary Sump Pump (but leave it in place in your sump pit).** Insert your fully charged size 27 marine grade deep cycle battery (not included) into the battery case, but **do not connect any wires** to the terminals yet.

Assemble the two parts of the L-shaped stainless steel mounting bracket (1) and hang it over the edge of your sump pit. Determine the position that the backup pump unit is to be mounted so that it hangs just above the water surface. Lift out the bracket and secure the backup pump unit to it at the correct height.

Push one end of the flexible discharge hose onto the barbed outlet fitting located on the base of the backup pump (2), and secure in place with a stainless steel hose clamp.

**NOTE:** Twisting the hose in a clockwise direction over the barbed fitting makes this process much easier. A dab of petroleum jelly or plumbers grease on the barbs also helps.

Place the “L” bracket back on the basement floor with the backup pump unit hanging into the sump (as shown, above) and then place the battery box on top of the bracket to hold it safely in place (4).

**NOTE:** If possible keep the bottom of the backup pump unit about 1/2 inch above the “high water level” that is normally maintained by your primary sump pump. This will keep the backup pump clean and dry until it is needed. You may need to remove the pump unit and readjust its height in order to find the optimum position.

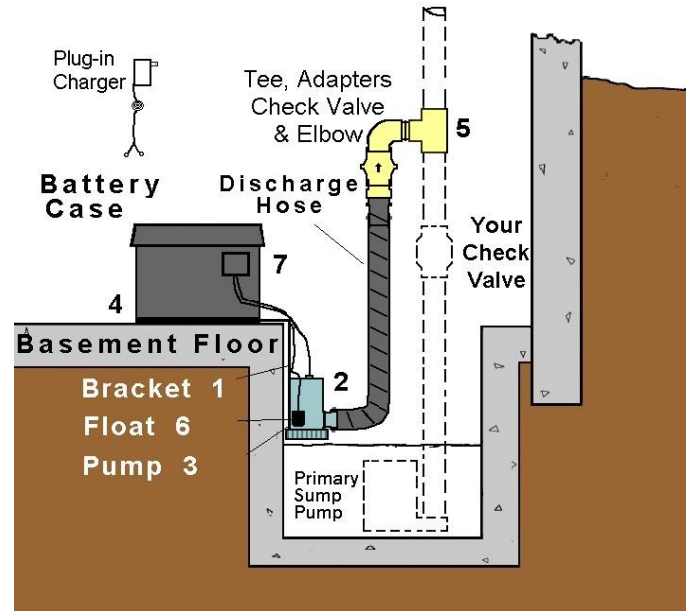
### Step 2 - Disconnect Your Primary Sump Pump Piping:

Disconnect 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 BP0/BP1 Backup Pump discharge T connection.** Without it, the 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.

### Step 3 - Install The Discharge Pipe:

You may install your battery powered backup pump unit so that it shares the existing discharge that your primary sump pump uses (Option 3A) OR you may install it so that it uses its own dedicated discharge (Option 3B). The shared discharge option is simpler to install, but the dedicated discharge option is generally preferred, since it provides protection in the case that your primary pump fails because its discharge is blocked.

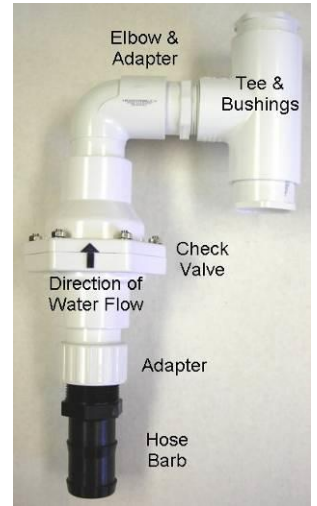
Additionally, in the case when your existing primary pump discharge runs a significant distance to exit, the dedicated discharge option will provide superior backup pumping efficiency, and will therefore maximize total pumping capacity available from your battery.



*BP0/BP1 Pumps have a vent hole at the discharge outlet to prevent an air lock forming*

### **Step 3A - Install A Shared Discharge:**

The PVC Tee assembly parts are provided correctly assembled in their operating position, **but without cement**. Prime and cement the check valve and PVC fittings in place as shown to the right. Use PTFE (Teflon) tape on all pipe threads and screw them together tightly. **NOTE:** Check Valve Arrow Must Point Upwards!



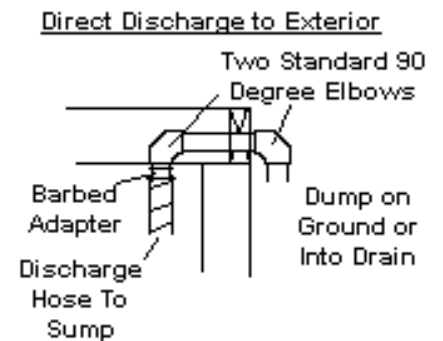
Use the flexible hose that you attached to the backup pump unit in **Step 1** as a guide to determine the position on your *existing primary pump discharge pipe* for the supplied Tee fitting to be inserted. Mark a position as high above your *existing primary pump check valve* as the supplied flexible hose will allow, so that backup pump flexible discharge hose will run upward to the main discharge pipe without tight bends or kinks. If your main pump discharge pipe is 1-1/4" PVC, cement the 1-1/4" x 1-1/2" bushing adapters into the ends of the Tee fitting; otherwise, pull them out and set them aside.

Carefully cut the primary sump pump discharge pipe as squarely as possible with a hand saw or PVC cutter, removing a 2" section of the pipe for insertion of the T fitting. Insert the Tee fitting and tighten in place so that the main discharge pipe remains straight and undistorted.

Place a loose hose clamp onto the flexible discharge hose that is connected to the pump unit. Twist the flexible hose onto the hose barb that you have just placed into your existing discharge line, and secure the hose clamp.

### **OR Step 3B - Install An Optional Dedicated Discharge:**

If You prefer to install your BP0/BP1 Backup Pump with its own, separate, discharge (highly recommended) you may do so using a configuration similar to that shown at right. Depending upon Your required rise to exit, You may need to run additional rigid piping or add additional discharge hose.



### **Step 4 – Install The BP0/1 Backup Pump Float Switch:**

2 Mounting Choices Are Possible For The Float Switch:

**Pump Body Mount** - The pump is provided with the float switch already mounted to the pump body with the correct tether length - do not alter the length of the tether between the pump and the float. However, for optimal positioning in your sump pit, you may rotate the position of the float around the pump body by loosening the securing clamp.

**Discharge Pipe Mounting (see image right):** Disconnect the plastic tether float holder from the pump body and use it with the smaller hose clamp to attach the float to your discharge pipe. Secure the hose clamp to your primary pump discharge pipe in the proper position above the primary pump. Insert the cord inside the clamp and adjust the length of the cord by pulling or pushing cord through the clamp. When correct position with proper swing is set, tighten clamp securely around cord.



**Note:** Check that the backup pump switches off correctly when the water level falls  
***The Backup Pump MUST Switch Off While There Is Still Water Covering The Pump Unit Intake Openings - Otherwise, It Will Run Dry And May Burn Out!***

Now that your backup pump and float are correctly set in place, gather the two wires (one from the backup pump unit and one from the float). Take up any loose slack and secure them to the top of the stainless steel mounting bracket using the included cable tie mount and cable tie.

## Basementsaver BP0 / BP1 Battery Powered Backup Sump Pump Start-Up And Operation Instructions

### 1. Start Up Procedure:

If you feel unsure about any of the following procedure we advise that you consult with a licensed electrician. Connect all Red (+) Pos wires from the charger and the junction box (mounted on the battery box) together to the positive (+) battery terminal. Connect all Black (-) Neg wires from the charger and the junction box together to the negative (-) battery terminal using wing nuts on terminals. Tighten securely. Plug the charger into a GFCI protected wall outlet using the supplied extension cord.

**Now plug your primary sump pump back into the wall outlet!**

**NOTE:** If connecting a second battery using the optional "BCC Dual Battery Case", all the Red Wires go to the Positive (+) Battery Terminals and all the Black Wires go to the Negative Battery Terminals. Connect the proper-colored wire to each terminal of the first battery and "jump" to the matching terminals of the second battery using the wires that came with the BCC Dual Battery Case. This keeps the batteries in "parallel" and allows the charger to maintain both batteries.

**IMPORTANT:** Fill the sump with water from a hose if needed to test for proper installation. To simulate rising water you may lift the primary sump pump float or the backup pump float by hand and operate the pump for approximately 10 seconds (do not run either pump dry).

Confirm that the location and position of the BP0/BP1 pump unit and float are correct and that the float moves freely. Raise the float to reach the desired "high level" which will trigger the backup pump to operate before water reaches the top of the sump pit. Confirm that the float shuts the pump off when returned to the "low level" while the water surface still covers the backup pump intake screen. Repair any leaks now during this process.

**Battery Charging:** A new battery, or one that's discharged, may take 24-36 hours to fully charge. The charger has indicator lights that display when it is plugged in (red) and actively charging (yellow), or maintaining a fully charged battery on float (green).

**NOTE:** It is normal for the lights to cycle on and off. It is also normal for the charger to feel warm to the touch and hum slightly. The charger will not charge a battery that has less than 10V potential. If your battery is old replace it with a new size 27 deep cycle marine battery.

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

### 2. Water Alarm:

The water alarm buzzer is activated at the same time that the backup pump activates, to warn you of the high water situation. It will sound each time the backup pump runs, and turn off at the end of each cycle. There is a wiring connection inside the junction box on the side of the large battery case, which can be disconnected to prevent the alarm sounding. Remove the four screws from the small junction box and remove the thin, red alarm wire from terminal block to silence the alarm.

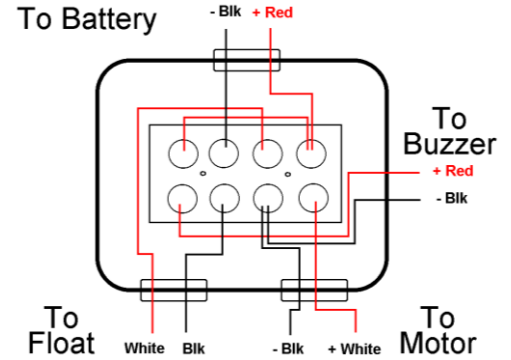
### 3. Maintenance Procedures:

**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. This is an automatic charger; no adjustments or maintenance are required. The charger can maintain up to 2 size 27 batteries. When using 2 batteries make sure that they are matched batteries of the same type and age.

### 4. Troubleshooting:

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

- **Jammed impeller**- Make sure impeller is spinning freely and is not blocked by a stone or other debris.
- **Suction or discharge piping may be partially clogged which restricts water flow** - Clear the obstruction.



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

- **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. (See separate discharge connection kit)
- **Battery may need charging or replacing** - A new battery often needs 24 - 36 hours of charging. If a deep cycle lead-acid is more than 3 years old, it is likely to need replacing (AGM or Gel batteries may last 5-7 years).
- **Check all PVC joints and confirm that they are 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 or clean and tighten securely.

### **The Pump Will Not Run At All**

- **Bad connection** - Check battery connections and all wires to be sure all are secure.

### **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 **716.775.0206** 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 **716.775.0206** for return information. If the pump has been installed and you choose to return it, please Call **716.775.0206** 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.*

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