

## EASY INSTALLATION INSTRUCTIONS FOR BASEMENTSAYER BP2 BATTERY POWERED BACKUP SUMP PUMP – Basementsaver Backup Sump Pumps Outlet



***Congratulations On Purchasing Your Basementsaver BP2 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 BP2 Low-Maintenance Battery Powered Emergency Basement Sump Pump System For Residential Sump Pits With Normal To High Flow Rates:**



**Basementsaver BP2 Emergency Battery Powered Backup Pump Removes 1400 gal/hr Average From Your Sump Pit, Assuming A 10ft Lift To Discharge**

**This 'Out-Of-Sump' Backup Pump Sits On Your Basement Floor And Is Especially Useful For Small Sumps Or Sump Pits That Have A Space Limitation Preventing Use Of A Normal 'Submerged' Battery Powered Backup Sump Pump.**

**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 BP2 Battery Powered Backup Sump Pump For Future Reference!**

## Basementsaver BP2 Battery Backup Sump Pump Easy Installation Instructions

**BEFORE** you begin installing your pump, **Please Read ALL Instructions.** The pumping capacity of Your BP2 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.			

### 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)



### Basementsaver BP2 Backup Sump Pump Specifications:

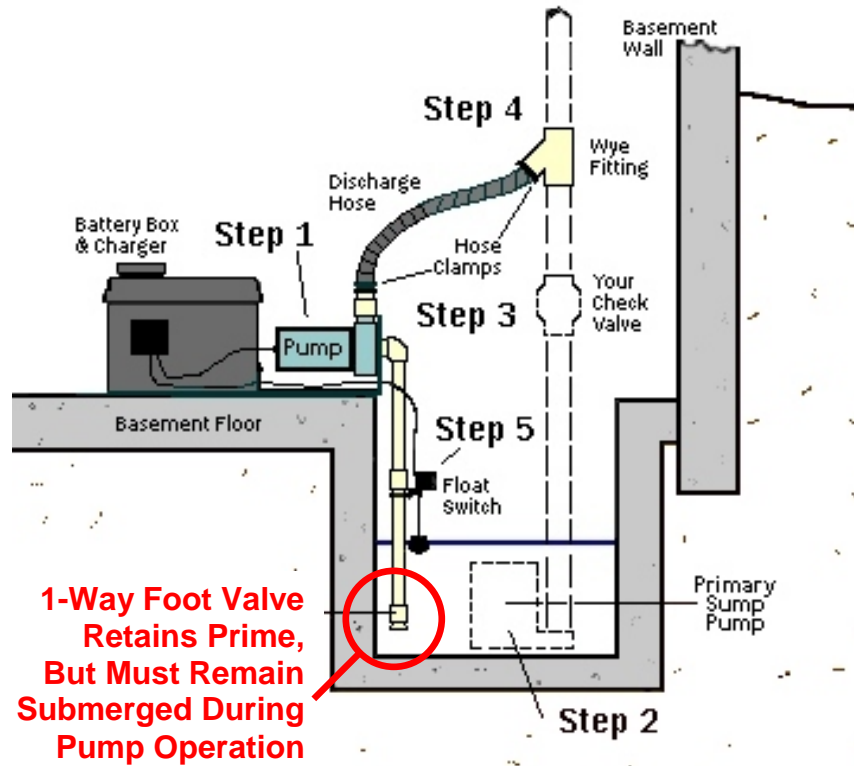
<b>Specifications</b> Pump Motor: 12 VDC, 21 Amps Battery Charger: 1.0 AH @ 12 VDC, 0.4 Amp Load Charger Service: 120 VAC, 60 HZ, GFCI Outlet Float Switch: Vertical Style, with mounting clamp Water Alarm: Integrated Battery Requirements: 12 Volt Marine deep cycle or Sealed Lead acid, Size 27 (NOT Included) Basementsaver BCC Optional Extra battery case is available to double pumping time at the same pumping rate	<b>Physical Size:</b> Pump Length: 7.5" Width: 6" Height: 6" Battery case L: 17", W: 9-1/2", H: 11" Pump weight: (without battery): 12 Lb Total shipping weight: 22 Lbs. 1-1/4" PVC Connection
<b>Flow Rates:</b> At 5 feet 1800 Gallons Per Hour At 10 feet 1400 Gallons Per Hour Do not exceed 15 feet total lift; pumping capacity will be reduced** <i>Note: You May Use 2 Batteries To Double Your Pumping Time</i>	<b>Pumping Times:</b> Using Marine Deep Cycle Battery/15 second cycles At 1 minute intervals 12 Hours At 5 minute intervals 48 Hours At 15 minute intervals 96 Hours
<b>Included Parts:</b> Motorized Pump Unit with stainless steel mounting bracket Battery Case with Cover and Charger Vertical Switch to activate pump (pre-wired) and (1) large metal clamp (3) Cable ties, (3) Smaller Hose Clamps, (1) 90° PVC Elbow & Coupling Installation Instructions; safety specifications	One-Way Foot Valve, screen, and female reducer PVC Tee Connector with elbow and 2 adapters Extension Cord Flexible Discharge Hose: 4 Feet Rigid PVC Pipe: (2) pieces 12" ; (1) piece 6" Long
<b>Additional Parts &amp; Supplies Needed:</b> Check valve for primary pump (existing?) PVC Primer and Cement (small cans) for PVC connections Teflon Tape or Pipe Sealant (Dope) for threaded connections Deep cycle Marine, Lead Acid, Gel, or AGM Battery (Purchase Locally!)	<b>Tools Needed:</b> Hand saw and/or PVC cutting tool Phillips and slotted screwdrivers Utility knife, tape measure, large adjustable pliers

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

**Model No. BP2 Serial No: \_\_\_\_\_ Installation Date: \_\_\_\_\_**

## Basementsaver BP2 Battery Powered Backup Sump Pump Step By Step Installation Instructions

**NOTE:**The **Basementsaver BP2 Backup Pump** Is Designed NOT To Be Submersed. The pump sits above your basement sump pit and draws water out through a submerged suction pipe when activated by a rising water level. This pump is therefore especially useful when Your sump pit space is limited:



### Step 1 - Place The BP2 Pump Unit On The Floor Beside Your Basement Sump

Remove all packaging and materials and hang all wires over the side and out of the battery box. Decide which way the battery box will face with respect to the pump motor/bracket. There are positioning holes on one long side as well as one short side of battery box for attaching the Stainless Steel mounting bracket. Use the two Stainless Steel screws and nuts provided and attach bracket to battery box so that the bracket sits on the floor and can be positioned next to the sump, as shown. Position battery box and pump in final position on the floor close to the sump pit, as shown.

Insert the battery (not included) to stabilize the unit but **do not connect any wires** to the terminals yet.

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

Unplug your primary (ac) sump pump and its discharge pipe. **A high quality, fully functioning check valve MUST be present above the main pump and below the BP2 Backup Pump discharge Y connection.** Without it, the BP2 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 Backup Pump Suction Pipe:

Prime & cement the foot valve together and then glue the narrow end of the 19" long PVC pipe supplied with the BP2 pump unit (photo) - **Allow time to dry.**

**Don't cement any more sections until you verify all positioning of pipes.**



Measure the vertical distance from the pump inlet fitting to approximately 2 - 4 inches from the bottom of your sump pit. Use the supplied coupling to connect a second piece of the PVC pipe to the first section with the foot valve attached. Trim or add pipe as needed, and connect the supplied 90° elbow.

Use the last piece of rigid PVC pipe for the horizontal section (cut to fit if required), and push it into the socket fitting on the pump suction inlet. Once all sections are correctly positioned; disassemble, prime, and cement all joints.

Make sure the foot valve is not resting in mud or against the bottom of the sump; set it 2 - 4 inches above the bottom so it won't pick up debris, stones, etc. **Make Sure The Foot Valve Will Remain Submerged During Operation Of The Pump (The Foot Valve Will Keep The Suction Line Full & Maintain Prime, Even If Your Sump Pit Water Evaporates).** This is a good time to clean out the pit and remove any foreign objects or debris.

#### **Step 4 - Install The Discharge Pipe:**

Assemble the Tee fitting to the black elbow (see photo at right). Use PTFE tape or pipe sealant and screw elbow in securely. Locate the assembled Tee fitting into the *existing discharge pipe of your main sump pump*, choosing a point high above your *existing check valve*. To determine the proper position of the tee, place the flexible backup pump discharge hose so that it runs from the pump to the Tee without kinks or sharp bends.



If the main pipe line is 1-1/4" PVC use the white PVC bushing adapters provided and glue into the Tee fitting. If these are not needed, set them aside. Once you have located the Tee position, carefully, and as squarely as possible, cut and remove a 2" section from your main pump discharge pipe. Prime, glue, and insert the Tee fitting into position on the main pump discharge pipe and allow time to dry completely.

While drying, you may attach the flexible hose to the pump discharge connection and do the same at the Tee fitting by attaching the hose to the black barbed hose connector. Secure the hose at both ends using the stainless steel hose clamps provided. A third hose clamp (included) may be needed at the connection to the pump. Place them close together and tighten them securely.

#### **Step 5 – Install The Backup Pump Float Switch:**

Attach the vertical float switch to the side of the suction pipe using the largest hose clamp provided. The float should be positioned in its fully down position just above the "normal primary pump" level. Slide the float up the rod by hand to simulate a normal response to high water and confirm the location of the "high" level. The float will need to rise to the top of the rod to turn the pump on and all the way down to the bottom of the rod to turn the pump off. If necessary, you may move the rubber stopper on the bottom of the rod up to a new position for an earlier shut-off.

Make sure the pump will come on before the float reaches the top of the pit so water never reaches the floor. It should turn off before the water drops down below the foot valve so air does not enter the system and break the suction prime. If the pump needs to re-prime itself the next time it runs, it can take several minutes. After following the start-up procedures below, you may have to make some minor adjustments to the float to assure proper operation. Re-adjust floats on both pumps, if necessary.

**The BP2 Suction And Discharge Line Must Remain Full Of Water For Correct Operation!**

**Make Sure That Both Your Primary Sump Pump And Your BP2 Backup Pump Cannot Drop The Sump Pit Water Level Down Below The BP2 Backup Pump Foot Valve Intake – You May Need To Adjust The Primary Pump / Float Or The BP2 Backup Pump Float To Prevent This Occurring.**

## Basementsaver BP2 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 charger and pump motor together to positive (+) battery terminal. Connect all Black (-) Neg wires from charger and pump motor together to negative (-) battery terminal using wing nuts on terminals. Tighten securely. Plug 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 (+) Terminals and all the Black Wires go to the Negative 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. Lift the primary sump pump float by hand and operate the pump for approximately 10 seconds. Do this 2 or 3 times to sufficiently prime the backup pump with sump water, and to purge out any trapped air.

Verify that all joints are sealed, then unplug the primary pump and refill the sump pit with water. You may simulate the rising water by lifting the float by hand, but don't empty the pit and lose the prime. Confirm that the location and position of the backup pump float is correct and moves freely. Raise the backup pump float to reach the desired "high level" which will begin the pumping before the water reaches the top of the sump pit. Confirm that the float shuts the pump off when returned to the "low level" before the water surface is below the bottom of the foot valve. 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. A **red light** on the charger means that it is receiving power from the wall outlet. A **yellow light** indicates a battery charging. A **green light** indicates 'float mode', with the battery fully charged.

**NOTE:** It is normal for the charger to feel warm to the touch and hum slightly.

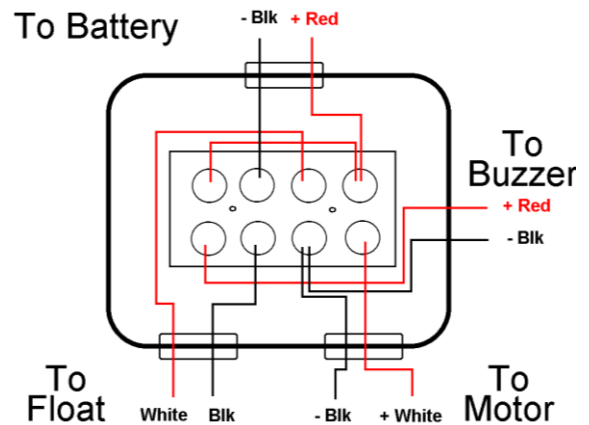
**DON'T FORGET TO PLUG YOUR PRIMARY SUMP PUMP BACK IN WHEN YOU ARE FINISHED!!**

### 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.



#### **4. Troubleshooting:**

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

- **Pump is not primed** – Disconnect the BP2 from its' battery. Fill the sump pit with water and cycle your primary sump pump on and off a few times to backfill the transparent backup pump hose with water. If necessary, open the hose clamp on the flexible discharge hose where it is connected to the Y fitting, pull the hose off the barbed fitting, and then pour water into the hose until full. Reconnect and start the backup pump again.

**Note: The BP2 Suction And Discharge Line Must Be Full Of Water At All Times In Order To Operate The Foot Valve And Connection To The Main Pump Discharge Is Designed To Keep The Line And Pump Full Of Water. Do Not Allow The BP2 Unit To Pump Down Dry. Set The Float Switch To Turn The Pump Off While The Foot Valve Is Still Submerged.**

- **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. (See separate discharge connection kit)

- **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.

#### **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.*

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