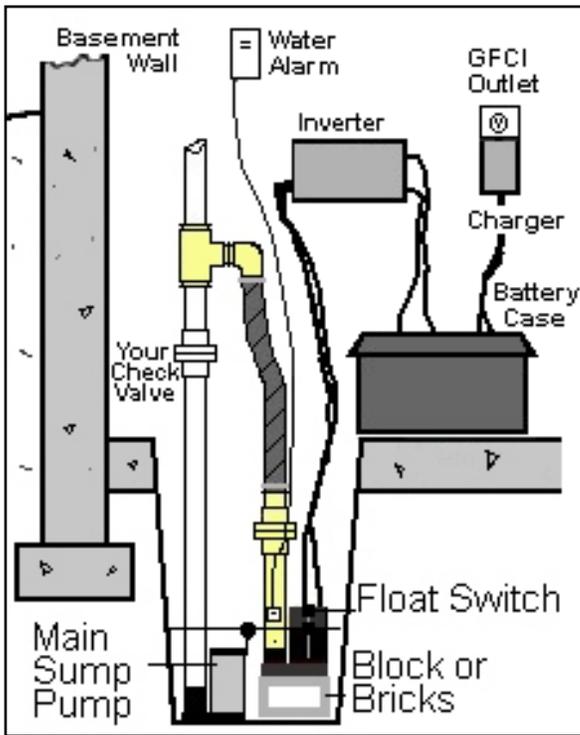
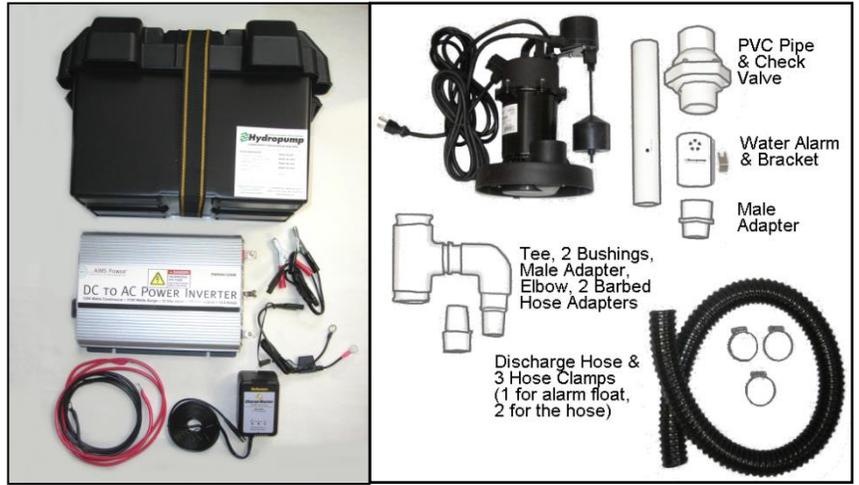
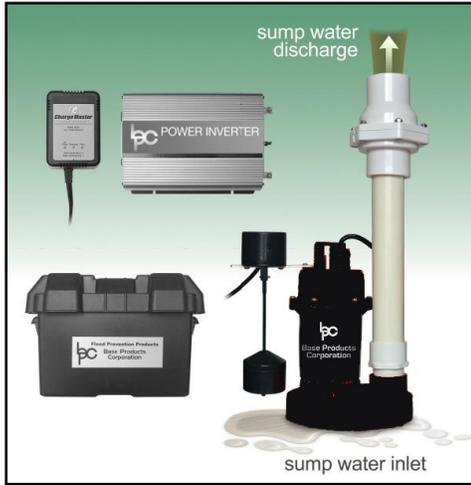


Hydropump Model PH3000 Battery Back-up Sump Pump Instructions

Refer to drawing throughout the installation.



Read all the instructions before attempting to install this PUMP.

| Specifications: | |
|--|---|
| Pump Motor: Model: SP3000 | 110 VAC @ 3450RPM, 1- Phase ½HP, 4.7 Amps |
| Pump Dimensions | 8" Diameter x 12" H |
| Pump weight: | 11 Lbs. |
| Float Switch: | Vertical Style, with mounting clamps |
| Water Alarm: | 9 VDC Battery Operated |
| Flow Rates: | 3,000 GPH @ 10' lift 3,200 GPH @ 5' lift, 26 feet max lift |
| Additional Parts & Supplies Needed: | |
| PVC Primer and Cement (small cans) | Tools Needed: Hand saw and/or PVC cutting tool |
| Teflon Tape or Pipe Sealant (Dope) | Utility knife, tape measure, large adjustable pliers |
| (4) Wall anchors depending on wall type, to mount inverter | Phillips and slotted screwdrivers |

| | | | |
|-----------------------|---|-----------------------|--|
| <p>WARNING</p> | <p>ELECTRICAL SHOCK HAZARD 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>WARNING</p> | <p>EXPLOSION OR FIRE HAZARD Do not use this product with flammable liquids. Do not install in hazardous locations as defined by National Electrical Code, ANSI/NFPA 70.</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.

Note: Use Teflon tape or pipe sealant (dope) on ALL THREADED FITTINGS.**Use PVC Primer & Cement on ALL SOCKET JOINTS.****Step 1: Pump Assembly (use photo to the right as a guide >>>)**

1. Cement the 1½" PVC male adapter to the end of the pipe closest to the "vent hole."
2. Screw this assembly into the sump pump discharge opening securely.
3. Cement the check valve to the top of the pipe, as shown. **The flow arrow MUST point upward.**
4. Cement one hose barb male adapter into top of check valve. **Do not drip cement into the check valve!**

**Step 2: Pump Placement**

Place the pump next to the primary sump pump on a concrete block or a couple bricks at the desired height for proper operation so that the water level only needs to rise 2-4" above normal to start the backup pump. Make sure the pump and float do not interfere with the sump wall, any wires, pipes, or the main pump float.

Step 3: Discharge Piping

If you need to be able to operate main and backup pumps at the same time, use 2" discharge piping from the tee to the outdoors and the 2" Tee without the top bushing; otherwise use 1½" discharge pipe and both bushings. **Use photo above as a guide to assemble the Tee Assembly. It comes hand-assembled from the factory.**

1. **Screw** the threaded x spigot male adapter into the threaded opening of the Tee.
2. **Cement** the elbow onto the bushing.
3. **Clamp** the flexible hose to the barb adapter on the top of the discharge pipe assembly and use it to measure from the pump to the discharge pipe of the main sump pump above the existing check valve.
4. **Mark** the location of the Tee assembly on the discharge pipe. Hose may be cut to fit, if necessary.
5. **Cut and remove** a 2" section from your main pump discharge pipe at the marked location.
6. **Cement** the Tee into position in the correct direction on the main pump discharge pipe.
7. **Place** a stainless steel hose clamp on top end of the hose and push the flexible hose onto the male hose barb connector at the Tee assembly. Twist hose clockwise to help with this. Tighten the hose clamps securely at both ends. To operate main and backup pumps at the same time, use 2" discharge piping to the outdoors and the 2" Tee without one or both bushings; otherwise use 1½" discharge pipe and the 2 bushings.

**Step 4: Water Alarm**

Refer to separate instructions included with the alarm and also in Section 2 of the SP3000-S Instructions.

Step 5: Power Inverter

Attach the power inverter on an adjacent wall using the supplied wood screws. Use proper fasteners and/or wall anchors if needed for your wall type. The battery cables are 6 feet long and must reach from the inverter terminals to the battery terminals; measure before mounting it.

**Step 6: Wires & Cables**

1. **Battery:** Remove wing nuts from battery terminals and set aside till later.
2. **Charger:** The battery charger is supplied with ring terminals and alligator clips. Use the ring terminals for the sump pump and the alligator clips for other temporary charging needs. A convenient inline connector is used for easy change out. Place the **Red (+)** cable from the charger to the positive battery terminal and the **Black (-)** cable to the negative battery terminal. **Do not plug in the charger yet.**
3. **Inverter to Battery:** Connect to inverter first: the **Red** battery cable to "**Red 12V DC**" terminal and **Black** battery cable to the "**Black 12V DC**" Terminal. Attach the other ends of each cable to the battery terminals, **Red** to **positive** and **Black** to **negative**. Now you may place and tighten the wing nuts on the battery terminals, securing one inverter and charger cable to each battery terminal. Grounding the inverter is recommended. Attach a #12-14 AWG wire from the inverter ground terminal to a cold water pipe using a grounding clamp.
4. **Pump & Float to Inverter:** 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.
5. **Plug the charger** into 110V GFCI protected wall outlet. A heavy gauge extension cord may be used if necessary. The charger is now charging and/or monitoring the battery.
6. **Dual Battery Case (optional):** You may use a second battery with our DBC 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.



Start-Up:

After completing Steps 1-6, you are now ready to power up the system. Locate the red toggle switch on the side of inverter and switch to the on position. Fill the sump pit with enough water to activate the pump and confirm the following items:

- 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 is in the proper position. 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.
- Repeat the start-up procedures if necessary after making adjustments to the float, pipe, and/or alarm sensor.

Troubleshooting:

Pump is running but no water is being removed from sump.

- Clogged suction or discharge piping: clear obstruction and restart.

Pump is removing low volumes of water.

- Pump suction or discharge piping may be partially clogged: clear 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 battery is new, wait a day or two before all final testing is done. If battery is more than 3 years old, it may need replacing.

Pump will not turn on or off properly.

- Float must be fully **down for off** and fully **up for on**. Verify that float rides freely on the rod. Adjust float by hand to each position required to test pump or re-position the collar on the float rod, if necessary, to assure proper operation. Note: longer runs cycles are better, so keep the start/stop positions as far apart as possible.
- Battery terminals may be connected improperly; correct and tighten securely.

Maintenance Procedures:

4 times per year, with water in the sump, lift the 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 battery age and charger status lights. The **RED** light means the charger is **POWERED** from the wall outlet. The **YELLOW** light means it's **CHARGING**. The **GREEN** light means the battery is **CHARGED** and the charger has switched to the "**FLOAT MODE**."

Note: It is normal for the charger to switch back and forth between the "Charging" and "Float" modes. This is an automatic charger; no adjustments or maintenance are required. See Separate Charger Instructions for further details.

Customer Satisfaction Guarantee and Two Year Limited Warranty

Within 30 days of purchase, if you are not completely satisfied with your new Sump Pump, Base Products Corporation (The Company) will refund your money, in full, excluding shipping charges, as long as product is returned in its original packaging, unused, un-installed, and in re-salable condition, shipping pre-paid. Please contact the dealer where you purchased your pump to obtain refund. If purchased directly from The Company, you must call our Customer Satisfaction Department at 1-800-554-1426 to receive return authorization or to receive Technical Assistance. Please give your name, address, phone number, purchase date, and installation address.

The Company warrants this Sump Pump against defects in material and workmanship for Two Years from the date of the shipment. In the event of any defect in the pump unit within the warranty period, The Company will, at its option, replace or recondition the product without charge providing the product is returned, prepaid to our offices in Buffalo, New York. This shall constitute the exclusive remedy for any alleged defect. The Company 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, electrical problems, or other circumstances over which The Company has no control. The Company 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 is applicable in the USA and Canada only.

Return Policy

After reading these instructions, should you determine that this product is not suitable for your application, please call The Company or your dealer for return information. Should the pump be installed and you choose to return it, call The Company for return approval. The Company is not responsible for any cost incurred with removal or pump repairs. Proper packaging of the returned product is the customer's responsibility and goods damaged in transit as a result of improper packaging will not be considered for credit.