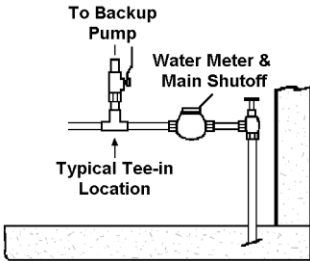


Installation Instructions for Model: Basepump-EZ

Important: Complete this page before attempting installation of this product!
Read all instructions before installation.



Water Supply Checklist



Pre-Installation 4 Point Checklist

BEFORE installing, **use this checklist** to verify each item below. Record each item in the space provided. Improper installation will result in reduced pumping capacity or pump **may not operate** at all.

1. Household Water Pressure:

- Minimum Pressure: 40 lbs. PSI Maximum Pressure: 90 lbs. PSI
- Compensate for normal pressure loss from test point to pump location.
- Tee in before Pressure Regulator Valve (PRV) when possible unless incoming municipal water pressure exceeds 90 Lbs. PSI.

1
Minimum Pressure 40 Lbs. PSI Actual: ____ PSI

2. Household Water Flow:

- This test is performed at an outdoor spigot without the hose connected. You must be able to fill 5 gallons into a bucket in 40 seconds or less. If it takes longer, you may have a restriction that must be bypassed.

2
Minimum Water Flow 7 GPM 5 Gal. in ____ Sec.

3. Type of Piping:

- Use 3/4" Copper, CPVC, or PEX. Do not connect to or use galvanized iron pipe. If absolutely necessary 1/2" may be used.
- **Note:** If using 1/2" tubing, remove the 3/4" adapter and replace with 1/2".

3
Required Pipe Size: 3/4" Actual ____

4. Pipeline Restrictions:

- For best performance, pump should be tee-in before these devices that restrict water flow: stop & waste valves, globe-type valves, and some Pressure Regulator Valves (PRV).
- Basepump **MUST** tee in before water softeners, conditioners, and/or water filters.
- Water meter must be minimum 5/8" or 3/4" standard.

4
No Piping Restrictions Any? Y N

Average Pumping Rates:

RB750-EZ pumps 750 GPH or approximately 1/3 the capacity of an electric sump pump at 2,000 GPH.

Return Policy

After reading these instructions, if you determine that this product is not suitable for your application, please call The Company or your dealer for return information. If the pump is 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.

Basepump Ejector Kit



1. Ejector with (2) Clamps & Drain Cup
2. (1) Clip-on pipe clamp
3. (3) Wood Screws
4. Suction screen with PVC adapter
5. Coiled Drain Tube

Float Kit



1. Float Assembly
2. Coil of Transfer Tubing
3. Stainless Steel Hose Clamp
4. (5) Cable Ties
5. 6" Clear Tubing (to be cut into 1" pieces to protect Transfer Tubing in Step #5.)

Water Alarm Kit



1. Alarm & Battery
2. Bracket & Screw
3. Cable Tie & pad
4. Stainless Steel Hose Clamp

Brass Plumbing Kit



1. Brass Ball Valve with Push Adapter
2. Push Type Tee Fitting
3. (4) Pipe Hangers with Screws
4. Push Fitting Release Tool
5. 3 Feet of Discharge Hose (not shown)

General Specifications

READ all instructions BEFORE installing this pump. The average pumping capacity of this pump may vary depending on your municipal water supply, pressure, piping, head pressure, and any restrictions that may exist in your piping. These instructions are for installations in a broad range of applications. You may have a unique situation that requires greater expertise than we are able to give you in these instructions, or you may require the services of a professional plumber.

Additional parts or supplies needed

- $\frac{3}{4}$ " water supply pipe (Copper, PEX, or CPVC) and additional fittings, as needed.
- 1" PVC pipe, Sch. 40 white, amount as needed for your application (typically comes in 10 foot lengths).
- For Outdoor Discharge: 1" PVC 90° and/or 45° elbow(s) for the suction and discharge piping, per your application.
- For Indoor Discharge: PVC Reducer Tee to connect to your sump pump discharge pipe, 1" PVC Check valve.

See "Installation Notice" at bottom half of page 3.

Tools Needed

- Electric or cordless drill, hand saw
- Phillips and slotted screwdrivers, utility knife, tape measure, adjustable wrench or channel pliers, pipe cutter.
- PVC Cement, Hole Saw (1-1/2"), and caulking for outdoor discharge installations.

Product Specifications

- Materials: Heavy-duty Schedule 80 Polypropylene, SS hardware, PVC Schedule 40 fittings, brass fittings & valve
- Dimensions: Length: 20" Width: 4" Height: 10" (includes check valve) Weight: 3.5 lb.
- Water inlet fitting: 3/4" Push connector
- Suction and Discharge Pipe Openings: 1" PVC socket

Back-flow Prevention

The RB750-EZ is supplied as standard with a built-in vacuum breaker backflow preventer meeting ASSE #1011, CSA B64.2, and UPC & IAPMO approvals. The standard outdoor discharge installation acts as an air gap providing additional cross connection protection, along with the fact that the sump water is a minimum of six feet from the potable water source. The vacuum breaker along with these inherent design features combined, provide superior backflow protection.

WARNING: Sump water can contain high levels of dangerous contaminants, including sewage. To reduce the risk of contamination of the potable water supply, this pump must be installed with a listed backflow prevention device suitable for the installation, in accordance with the local plumbing code, such as a reduced pressure zone backflow preventer (RPZ). Alternatively, consult the local plumbing and health codes or the authority having jurisdiction for guidance on cross-connection and backflow protection requirements.

Installation Notice

The RB750-EZ is designed to be discharged independently outdoors, separate from your primary sump pump discharge pipe. (See page 4 for details) However circumstances may make it necessary to discharge the RB750-EZ indoors into the primary sump pump pipe. Reasons why you should install the discharge separately outdoors:

- Your primary sump pump discharge pipe **MUST** have a check valve installed. If this check valve fails, then the Basepump will send water back down into the sump and the basement will flood.
- If your primary sump pump discharge pipe ever becomes clogged or frozen, then the Basepump will also not be able to operate and the basement will flood.
- The Unified Plumbing Code (UPC) prohibits the discharge of a water powered pump into the primary discharge pipe.
- Here are photos depicting both Outdoor (independent) and Indoor (connected) Discharges.
- The drain cup kit is shown mounted under the vacuum breaker to catch small amounts of water that may drain from the vacuum breaker when the pump turns off. A hose is included to direct this water down to the sump.

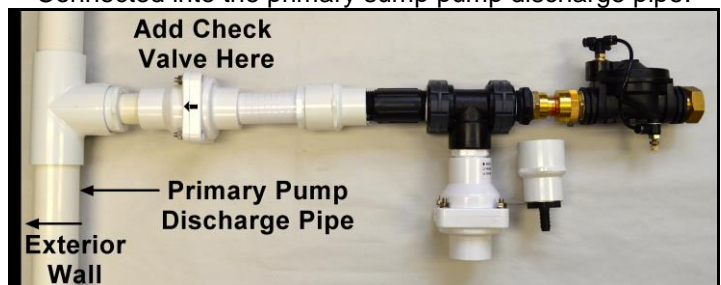
Outdoor Discharge

Discharged separately through the exterior wall.



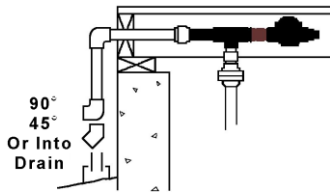
Indoor Discharge

Connected into the primary sump pump discharge pipe.



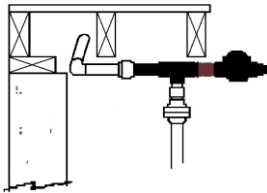
Suction/Discharge Options

Standard Outdoor Discharge



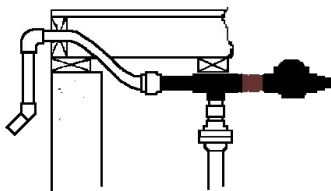
Basepump mounted on side of ceiling joist;
Discharge to exterior.

Perpendicular Outdoor Discharge



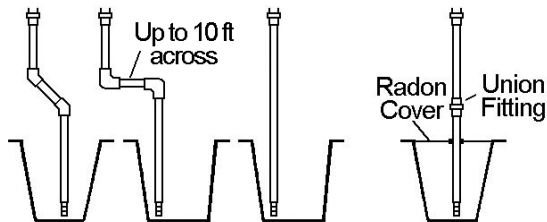
Basepump perpendicular to exterior wall
with discharge turned at an angle.
Some water may flow from the vacuum breaker.
See step #8

Under Joist Outdoor Discharge



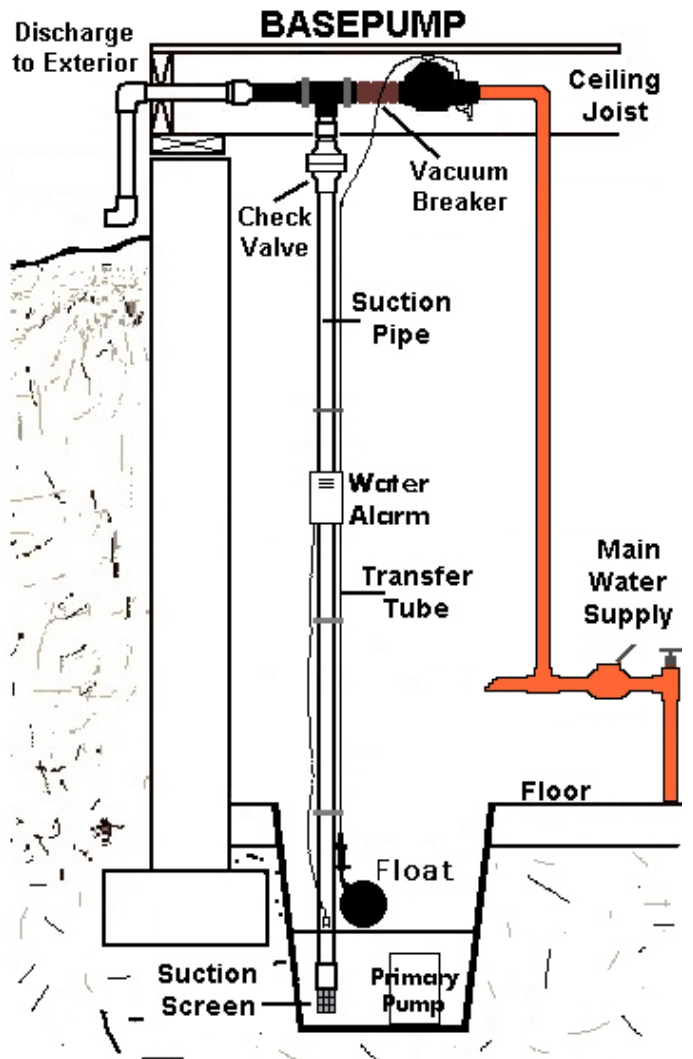
Basepump mounted under ceiling joist with
Discharge hose sloping upward and out.
Some water may flow from the vacuum breaker.
See step #8

Suction Pipe Options

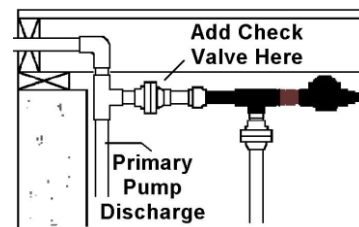


Pump does not need to be directly above the sump in
case of an obstacle such as a heat duct, electrical
panel, window, stairway, etc.
Horizontal distance up to 10 Feet across.

Basic Outdoor Installation



Indoor Discharge



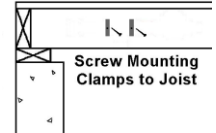
Shared discharge with Primary Pump. Prevent excess
water from spilling out of vacuum breaker by using check
valve on discharge pipe.

Installation Instructions (Outdoor Discharge)

Basepump Ejector Kit

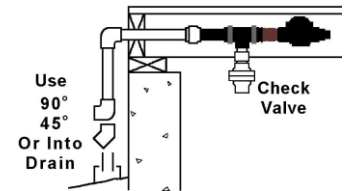
Step 1. Mount Ejector on Joist

- Thread the union end of the brass ball valve onto the Basepump Ejector.
- Mount the Ejector above the sump against the side or bottom of one of the ceiling joists (See page 4). For Outdoor Discharge, check the building exterior to make sure the discharge will clear any obstacles. Pump may be offset to clear obstacles (See page 4).
- The suction pipe can be fitted in various ways to accommodate this location. Attach the mounting clamps to the ceiling joist using 1" wood screws and snap the pump unit into the clamps.



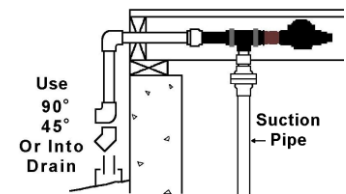
Step 2. Install Outdoor Discharge

- **** (For Indoor Discharge: Refer to pages 3 & 4 for Installation Notice and details.) ****
- Drill a 1-1/2" hole through the building exterior wall for the discharge hose or PVC pipe. Vertical rises of more than 2 feet on the discharge will reduce pumping rates and the vacuum breaker will drain excess water after shutoff.
- Cement a 90° elbow (in most cases) onto the discharge hose outside the building, as shown. See page 4 for various installation options.
- Cement a short length of PVC pipe into the bottom of the Elbow to direct the water down toward the ground. Use a 90° or 45° elbow to divert the flow away from the foundation, onto the ground, a splash block, or into a larger drain pipe. Remember, this is a back-up sump pump and will only run during a sump pump failure.



Step 3. Install Suction Pipe

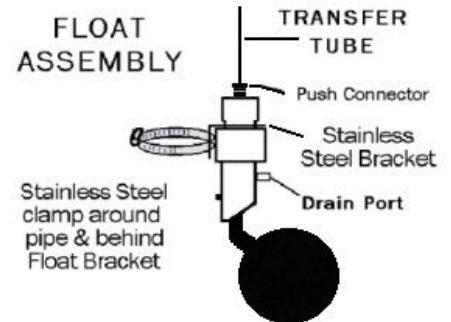
- Locate the suction pipe in the sump to clear the primary pump and all obstructions (See page 4). Cement the pipe into the PVC female fitting on the Suction Screen.
- Cut pipe to the proper length, cement the upper end into the Ejector check valve, making sure that the lower end of the Suction Screen is approx. 2-4 inches above the bottom of the sump. Either 45 or 90 deg. elbows may be used to offset the suction pipe, if necessary (See page 4). Suction pipe may be fastened to the side of the sump, if necessary, using the extra gray clamp included in the kit.



Float Kit

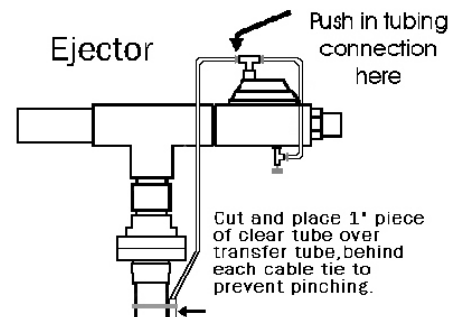
Step 4. Install the Float

- Clamp the Float Assembly to the suction pipe so the float ball hangs just above the "normal high water level"; tighten clamp securely around the pipe.
- Make sure the Float Assembly clears your sump cover and that the float ball moves freely; you may rotate or adjust the angle of the float ball to clear any obstruction. You may need to cut the cover to help it clear.



Step 5. Connect Transfer Tube

- Push one end of the thin transfer tubing firmly into the push connector of the small "Tee" on top of the Pump Ejector.
- Hang the tubing down along the suction pipe to the float. Make sure the ends of the tubing are cut clean and square.
- Cut the 6" long clear tube into 5 pieces; slide them onto the transfer tube.
- Push the lower end of transfer tube into the connector at the top of the float assembly. Fittings are self-sealing when fully inserted.
- **Note:** To remove the tubing from a fitting, **PUSH** in the retainer ring while you **PULL** out the tubing. Reinsert by pushing it in firmly till it hits bottom.
- Use cable ties to strap the transfer tube along the suction pipe; slide one piece of the clear tube up behind each cable tie to prevent pinching of transfer tube (see sketch to the right). You may leave the excess transfer tubing coiled at the top by the pump or at the bottom by the float, or you may cut it off, but leave at least a foot extra in case of later adjustments.



Brass Plumbing Kit

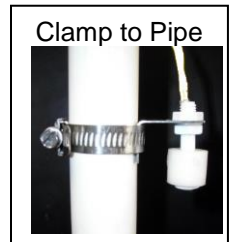
Step 6. Connect Water Supply

- $\frac{3}{4}$ " tube size fittings for Copper, PEX, or CPVC are included. We recommend using $\frac{3}{4}$ " tubing; however if you must use $\frac{1}{2}$ " tubing, obtain the fittings locally. Refer to separate instructions for using the push-type fittings.
- **NOTE:** Flush the water pipe before final connection to the pump to remove any debris that may be inside the pipe before it clogs or damages the Ejector.

Water Alarm Kit

Step 7. Install Water Alarm (see specifications with alarm)

- **Install the battery:** Remove battery compartment cover on the back of the alarm. Pull out float and wire stored inside. Snap a 9-volt battery onto the battery connector, place the battery inside compartment, line up float wire into slot at bottom of alarm, and replace cover.
- **Mount the Alarm:** Stick plastic cable tie mount to upper back of alarm; wrap releasable cable tie through the mount and around the suction pipe ~4 feet above floor, or to a wall using screws.
- **Position the sensor float:** Clamp bracket to the pipe (shown here) or screw to the sump wall. Typical height would be just above the normal high level in the sump, so it alarms at the same time as the pump turns on.
- **Replace the battery** when the alarm has operated for an extended period of time. Alarm will "chirp" when the battery needs to be replaced. A new battery should last a year, on standby.
- **Relay Outputs:** These are no volt, *Normally Open*, "dry" contacts that close when the alarm sounds and open when it stops. These may be connected to a security system or auto-dialer.
- **Operation:** When the float is up the alarm sounds and the relays close. When float drops, the alarm will silence and the relays will open.



Start Up Procedure

Open the water shut-off valve and check for leaks. **Note:** Pump may turn on at this time so be sure the discharge piping is completed. Lift the float ball for 10 seconds to release air trapped in the Ejector and Transfer Tube. Air and water will release from the drain port on the float unit just above the float ball. The first cycle may take longer than normal to shut off. Factory setting is approximately **30 seconds after the float ball drops**. Pump should stop after 30-60 seconds. Lift the float a second time after the first run is over. If pump continues running too long or shuts off too quickly, see "**Adjusting the Timing Knob**" section on page 8.

Operating Instructions

Pump operates automatically. To operate manually, lift the float ball in the sump to its upper position for a few seconds till the water starts running and then lower it, simulating a normal rise and fall of the water and allowing the pump to operate through a complete cycle. This flushes the water pipes and confirms that the pump is functioning properly.

Periodic Testing Procedures

It is necessary to test this pump at least once every 3-4 months to ensure proper basement flood protection and to protect your warranty. Follow the procedures noted here, write down each of your test dates, and keep it with these instructions in a convenient location on or near the pump.

Confirm that:

- Float ball moves freely up and down in sump.
- When float ball is lifted, water flows from the port just above the float ball and the water stops flowing from this port when you lower the float ball.
- The pump runs and removes water approximately 30-40 seconds AFTER the float ball drops to its lowest position.
- Pump then turns itself off. This is the factory setting, but it may have been adjusted to run longer or shorter depending on sump water inflow rates. If needed, see "**Adjusting the Timing Knob**" on page 8.

Troubleshooting

Unit does not pump at all:

- Make sure water supply valves to the pump and to the whole house are open completely.
- Confirm that there is adequate water flow: Perform the 5-gallon bucket test. (See page 1 #2. Household Water Flow)

Unit does not pump adequately:

- **Low water pressure:** Municipal water pressure must be 40 lb. PSI minimum at pump location.
- **Low water flow:** Minimum water supply piping must be ½" and 7 gallons per minute (See page 1, #2).
- **Restrictions:** Piping kinks or restrictions such as water conditioners, filters, globe valves, etc. will prevent Basepump from operating.
- **Suction screen** must be clear of debris or obstruction and suction pipe must be free of any leaks.

Pump does not shut off:

- Timing Knob maybe closed. See "**Adjusting the Timing Control Knob**" section on page 8.
- Timing Knob maybe clogged. Remove tubing with procedure below:
- Remove the short piece of tubing from side outlet of timing Knob (with one hand **PUSH** in retainer ring that holds the tubing in place and with the other hand **PULL** out tubing). Turn on water to the pump. If water comes out of the opening, it is clear. If not, open the knob (counterclockwise or left) till it does. If it stops turning (don't force it) and no water has come out, it is likely plugged. It can be removed from the Ejector using a small wrench counterclockwise on the base nut. Turn off the water, remove it, check it for debris, solder, etc. Verify that turning the knob moves the inner parts up and down freely. Replace timing control and refer to page 8. If necessary, call the factory for a replacement.

Pump does not turn on:

- Timing Knob maybe opened too far. See "**Adjusting the Timing Control Knob**" section on page 8.
- Make sure all water supply valves to the pump are fully open.
- Check for a clogged or frozen discharge pipe.
- Check for a pinched Transfer Tube. Water drains from Float Port above float ball when lifted; stops when it is down.
- If nothing's pinched and no water exits the Float Port when ball is lifted, turn off the water supply to the pump and remove the tubing from the top of the Float Assembly (**PUSH** in the plastic ring while you **PULL** out the tubing). Point the end of the tubing into the sump and turn the water on to the pump. If water shoots out of the tubing and the pump turns on, then it appears the float is the problem. Call the factory for support and/or replacement.
- If no water comes out, check the other end of the Transfer Tube at the small tee on top of the Main Valve the same way: turn off water, pull out tubing, turn on water, check for water coming out and pump turning on. If not, go to the other side of the tee on the short piece of tubing, same thing. If not, check the timing control connection, same thing. If none of this turns the pump on, call the factory for tech support.

Pump Leaks:

- Valve cover leaks or "spits" water upon shut-off: Securely and evenly tighten the 6 screws on top that hold the cover down. If this does not solve the problem, excessive water pressure may be the cause. Check the house water pressure to confirm and refer back to Page 1. If this still occurs, you will need to move your tee-in point to a location downstream from the PRV or call us for a "point of use" PRV.
- Thin transfer tubing leaks at any push fitting: Turn off water supply valve. Lift float ball to relieve pressure. With one hand **PUSH** in release ring on the fitting while with the other hand **PULL** out the tubing. (See pg. 8) Using scissors or sharp utility knife, snip off 1/2" of tubing to create a fresh, clean, square-cut end. Push newly cut end back into fitting until you feel it bottom out and turn the water supply valve back on. If it still leaks, contact the factory.

Relief Tee Plug keeps popping out:

- Make sure discharge and/or underground conduit are not clogged or frozen.
- Push plug in more securely.

Pump makes noise:

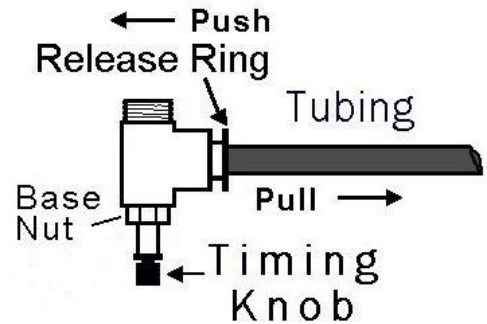
Note: This pump does not run silently; it is very powerful and some noises will occur normally during each phase of operation depending on water flow, pressure, piping, etc.

- Secure all piping and if needed, place insulating material between the pump, pipe, and joist to deaden any particularly noisy areas.
- If water hammer is experienced (banging in the pipes upon closure), this will not damage the pump. You may install a **water hammer arrester** in the water supply pipe before the ejector to reduce the noise and vibration.
- In some cases, the check valve on the base of the Ejector will thump or flutter as the valve shuts off and air exits the system. This is normal.

Adjusting the Timing Control Knob

(Factory set to run for approximately 30 seconds after float ball drops):

- Use sketch to guide you and the marking on the end of the knob as a guide. Control is located on bottom of Ejector and has the small tubing coming out of it connecting to the small "Tee" on the top of the Ejector.
- **Pump stops too soon:** ¼ Turn Timing Knob right (clockwise) to produce a 15 Second Longer Run Time. If you close it completely, pump will not shut off.
- **Pump runs too long:** ¼ Turn Timing Knob left (counter-clockwise) produces a 15 Second Shorter Run Time. If you open it too far, pump may run for too short a time to be effective.
- **If you lose your place and must start over:** Turn the Timing Knob all the way in to the right (clockwise) and then back to the left (counter-clockwise) 1 ¼ Turn. This is the factory setting.
- 30 - 45 seconds run time after the float drops is a good average "rule-of-thumb". Running it dry will not harm it, but it does use water unnecessarily when this happens.



This backup sump pump is to be tested to ensure proper operation at least 3-4 times per year. Lift the float by hand and confirm pumping, runtime, and automatic shut-off. Record the date after each test.

Place these instructions back into the plastic bag they came in and keep them near the pump.

30 Day Customer Satisfaction Guarantee

Within 30 days of purchase, if you are not completely satisfied with your new Water Powered Backup Sump Pump, it must be returned in its original packaging, unused, and in re-salable condition. The Company will then refund your money, in full, excluding shipping charges. If returned in 31-90 days after purchase, a 15% Restocking Charge will be applied. No returns accepted after 90 days. 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 800 554 1426 to process return or to receive Technical Assistance. Please give your name, address, phone number, date of purchase, and model number.

Five Year Limited Warranty

Base Products Corporation (the "Company") warrants the Basepump (the "Product") against defects in material and workmanship for a period of Five Years from the date of the shipment. In the event of any defect 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. The replacement or reconditioning of the Product shall constitute the exclusive remedy for any alleged defect.

CUSTOMER'S SOLE AND EXCLUSIVE REMEDY UNDER THIS LIMITED WARRANTY SHALL BE PRODUCT REPAIR OR REPLACEMENT AS PROVIDED HEREIN. CLAIMS BASED ON IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR, OR THE SHORTEST PERIOD ALLOWED BY LAW, BUT NOT LESS THAN ONE YEAR. THE LIABILITY OF THE COMPANY SHALL NOT IN ANY CASE EXCEED THE COST OF REPLACEMENT OF THE PRODUCT, AND IN NO CASE, SHALL THE COMPANY OR ANY OF ITS DISTRIBUTORS BE LIABLE FOR ANY INCIDENTAL, INDIRECT, CONTINGENT OR CONSEQUENTIAL LOSS OR DAMAGES SUCH AS PROPERTY DAMAGE OR EXPENSES RESULTING FROM THE FAILURE OF THE PRODUCT, DELAYS, LOSS OF USE, NEGLIGENCE, DAMAGE FROM PECULIAR WATER CONDITIONS, CHEMICALS OR FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE COMPANY'S NEGLIGENCE OR FAULT. 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.

This warranty does not cover defects in the Product resulting from: (a) abuse or mishandling of the Product; (b) modification, alteration, repair or service of the Product by anyone other than Base Products Corporation; (c) improper or neglect in maintenance. This warranty does not cover any water damages caused by defects in the Product as such defect should have been identified during periodical testing. The owner's use of these Products confirms the understanding that these Products **do not constitute an insurance policy** and they are only loss mitigation products used to reduce the risk of water damage, however not eliminating such risk.

The above warranty may not be altered except in writing signed by both parties hereto.