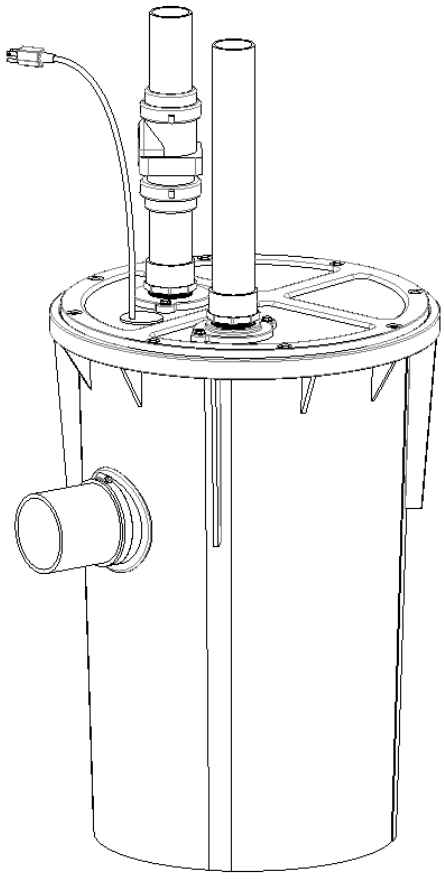
EVERBILT™

Model #THD1100

USE AND CARE GUIDE

PRE-PACKAGED SEWAGE BASIN SYSTEM WITH HEAVY DUTY 1/2 HP SEWAGE PUMP



Questions, problems, missing parts?
Call Everbilt Customer Service
8 a.m. - 7 p.m. EST, Monday - Friday and Saturday 9 a.m. - 6 p.m. EST

1-877-297-6069

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THANK YOU

We appreciate the trust and confidence you have placed in Everbilt through the purchase of this sewage system. We strive to continually create quality products designed to enhance your home. Visit us online to see our full line of products available for your home improvement needs. Thank you for choosing Everbilt!

Table of Contents

Safety Information

PRECAUTIONS

1. This document serves only as an installation guide. Refer to your state and/or local plumbing or onsite wastewater treatment and disposal regulations for details pertaining to your systems design, installation and maintenance requirements.
2. Keep this instruction manual in a safe place for future reference.
3. The motor of this pump has a thermal protector that will trip if the motor becomes too hot. The protector will reset itself once the motor cools down and an acceptable temperature has been reached. The pump may start unexpectedly if it is plugged in.
4. Ensure the electrical power source is adequate for the requirements of the pump.
5. This pump is made of high-strength, corrosion-resistant materials. It will provide trouble-free service for a long time when properly installed, maintained, and used. However, inadequate electrical power to the pump, dirt, or debris may cause the pump to fail. Please carefully read the manual and follow the instructions regarding common pump problems and remedies.

DANGER: Do not pump flammable or explosive liquids such as oil, gasoline, kerosene, ethanol, etc. Do not use in the presence of flammable or explosive vapors. Using this pump with or near flammable liquids can cause an explosion or fire, resulting in property damage, serious personal injury, and/or death.

DANGER: ALWAYS disconnect the power to the pump before servicing.

DANGER: Do not touch the motor housing during operation. The motor is designed to operate at high temperatures. Do not disassemble the motor housing.

DANGER: Do not handle the pump or pump motor with wet hands or when standing on a wet or damp surface, or in water. If basement floor is wet, do not walk on wet area until all power is turned off. If shut-off box is in basement, call the electric company to shut off service to the house, or call your local fire department for instructions. Remove pump and repair or replace. Failure to follow this warning can result in fatal electrical shock.

WARNING: Extension cords may not deliver sufficient voltage to the pump motor. Extension cords present a life threatening safety hazard if the insulation becomes damaged or the connection ends fall into water. The use of an extension cord to power this pump is not permitted.

WARNING: Secure the discharge line before starting the pump. An unsecured discharge line will whip, possibly causing personal injury, and/or property damage.

WARNING: Release all pressure and drain all water from the system before servicing any component.

WARNING: Wear safety goggles at all times when working with pumps.

WARNING: This unit is designed only for use on 115 volts (single phase), 60 Hz, and is equipped with an approved 3-conductor cord and 3-prong grounded plug. Do not remove the ground pin under any circumstances. The 3-prong plug must be directly inserted into a properly installed and grounded 3-prong, grounding-type receptacle. Do not use this pump with a 2-prong wall outlet. Replace the 2-prong outlet with a properly grounded 3-prong receptacle (a GFCI outlet) installed in accordance with the National Electrical Code and local codes and ordinances. All wiring should be performed by a qualified electrician.

WARNING: Protect the electrical cord from sharp objects, hot surfaces, oil, and chemicals. Avoid kinking the cord. Do not use damaged or worn cords.

WARNING: Failure to comply with the instruction and designed operation of this unit may void the warranty. ATTEMPTING TO USE A DAMAGED PUMP can result in property damage, serious personal injury, and/or death.

WARNING: Ensure that the electrical circuit to the pump is protected by a 15 Amp fuse or circuit breaker.

CAUTION: Do not lift the pump by the power cord.

Safety Information

CAUTION: Know the pump and its applications, limitations, and potential hazards.

CAUTION: Periodically inspect the pump and system components to ensure the pump intake is free of mud, sand, and debris. Disconnect the pump from the power supply before inspecting.

CAUTION: Follow all safety standards and all local electrical codes.

ELECTRICAL SAFETY

WARNING: Do not splice the electrical power cord.

WARNING: Do not allow the electrical cord plug to be submerged.

WARNING: Do not use extension cords. They are a fire hazard and can reduce voltage sufficiently to prevent pumping and/or damage the motor.

WARNING: Do not handle or service the pump while it is connected to a power supply.

WARNING: DO NOT remove the grounding prong from the plug or modify the plug. To protect against electrical shock, the power cord is a three-wire conductor and includes a 3-prong grounded plug. Plug the pump into a 3-wire, grounded, grounding type receptacle. Connect the pump according to electrical codes that apply.

Warranty

The manufacturer warrants to the original consumer purchaser of the pre-plumbed sewage system that it will be free from defects in material and workmanship for the Warranty Period of 12 months from date of purchase. The date of purchase shall be determined by the original dated sales receipt noting the model number of the system. The original sales receipt must accompany the returned system. If the system fails during the warranty period, disconnect the power, disconnect all plumbing and piping, empty any water from the pump and return the pump to The Home Depot along with the receipt.

The manufacturer shall not be liable under this Warranty for any product that, in our sole judgment, has been subject to negligence, misapplication, improper installation, or improper maintenance. Also, the manufacturer shall not be liable under this Warranty if the product has been disassembled, modified, abused, or tampered with; if the electrical cord has been cut, damaged or spliced; if the pump discharge has been reduced in size; if the pump has been used in water temperatures above the advertised rating, or water containing sand, lime, cement, gravel or other abrasives; if the product has been used to pump chemicals or hydrocarbons; or if the label bearing the system model has been removed.

Your sole remedy, and the manufacturer's only duty, is that the manufacturer repair or replace defective systems (at the manufacturer's choice). You must pay all labor and shipping charges associated with this warranty. No request for service will be accepted if received after the Warranty Period has expired. This warranty is non-transferable.

The manufacturer shall not be liable for any consequential, incidental, or contingent damages whatsoever. The manufacturer recommends using a professional plumber for all installation and repair, and periodic inspection of the manufacturer's pumps, plumbing connections, and electrical cord. The manufacturer makes no warranty regarding the suitability of a product for a particular installation.

This warranty excludes all industrial, agricultural, commercial, and business usage of this system.

The foregoing warranties are exclusive and in lieu of all other express and implied warranties, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. The forgoing warranties shall not extend beyond the duration expressly provided herein.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on the duration of the implied warranty, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which may vary from state to state. This warranty applies to only pumps installed in the United States of America and Canada.

This warranty supersedes and replaces all previous warranty publications.

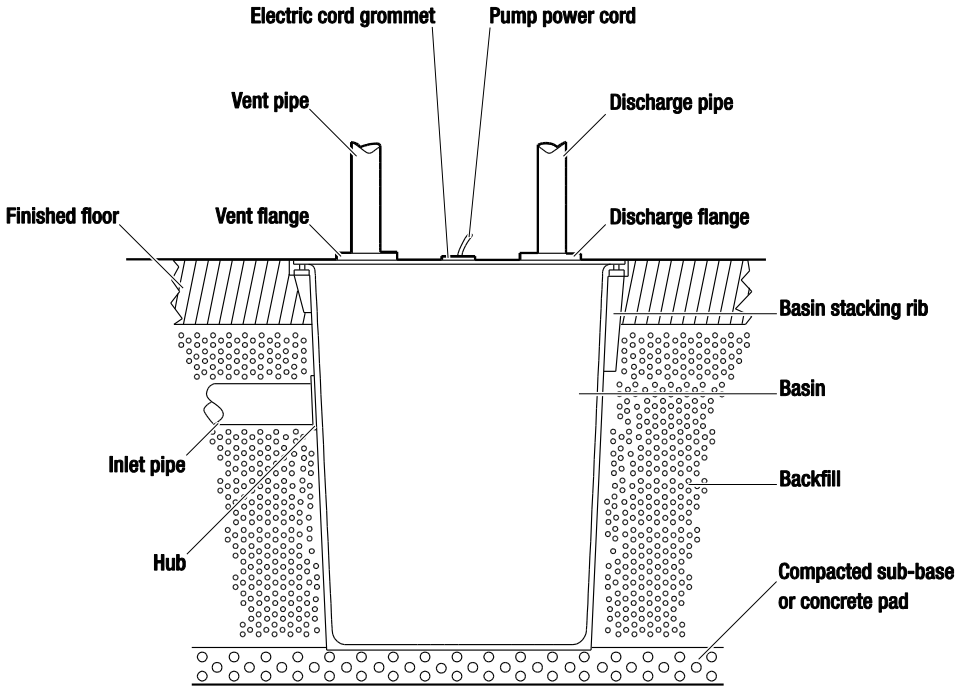
Contact the Customer Service Team at 1-877-297-6069 or visit www.HomeDepot.com.

Pre-Installation

APPLICATION

This submersible sewage basin system is designed for pumping sewage, effluent, wastewater, or flooded water with up to 2 in. diameter solids. The pump is built with overload thermal protections and auto reset. The pump is equipped with a 10 ft. 3-prong grounding-type power cord and snap-action float switch. This pump operates automatically. Ball bearings on motor shafts never need lubrication.

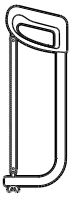
TYPICAL INSTALLATION

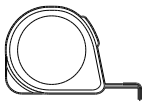


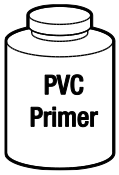
TOOLS REQUIRED


Flathead screwdriver

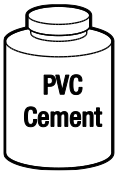

7/16 Nut Driver or Wrench


Hacksaw or PVC Cutter


Tape measure



PVC primer

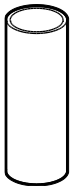


PCV cement

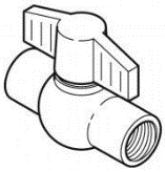

Safety goggles

MATERIALS REQUIRED (NOT INCLUDED)

Before using this pump, ensure you have the following items:


2 in. PVC Schedule 40 Pipe


2 in. PVC Schedule 40 Threaded Male Adaptor x 2

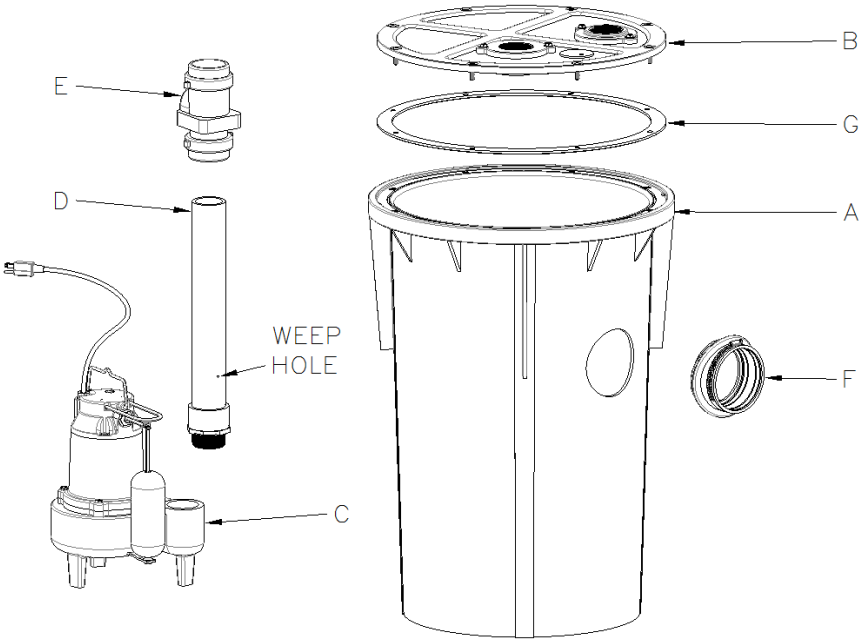

2 in. Shut-off Valve


Thread Seal Tape

Pre-Installation

PRODUCT DESCRIPTION

Part	Description
A	Basin (with pump and accessories inside)
B	Gas-tight Cover w/Pipe Flanges and Cord Grommet
C	Everbilt Model HDSS50 1/2 HP Cast Iron Sewage Pump
D	2 in. Discharge Pipe Assembly w/Weep Hole*
E	2 in. Compression Fit Check Valve
F	4 in. Snap-In Inlet Hub
G	Reusable Seal

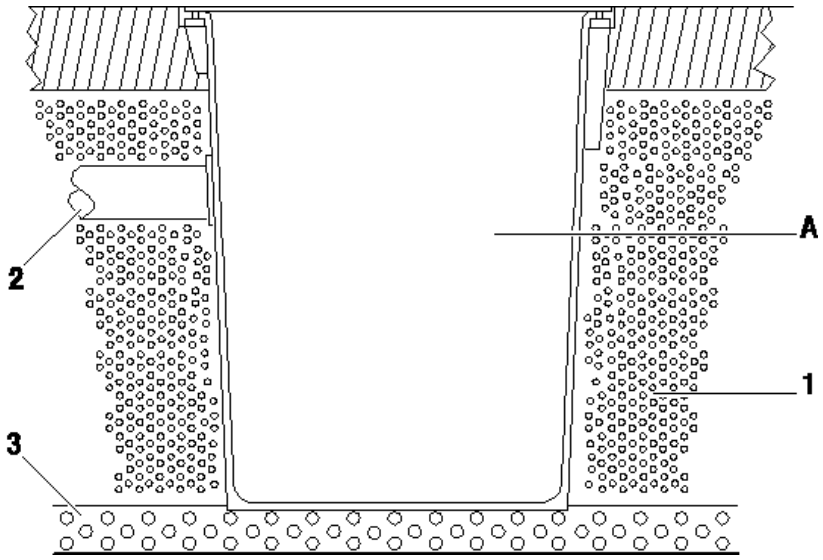


*The weep hole prevents the pump from becoming “air-locked”, a condition which will not allow the pump to pump water.

Installation

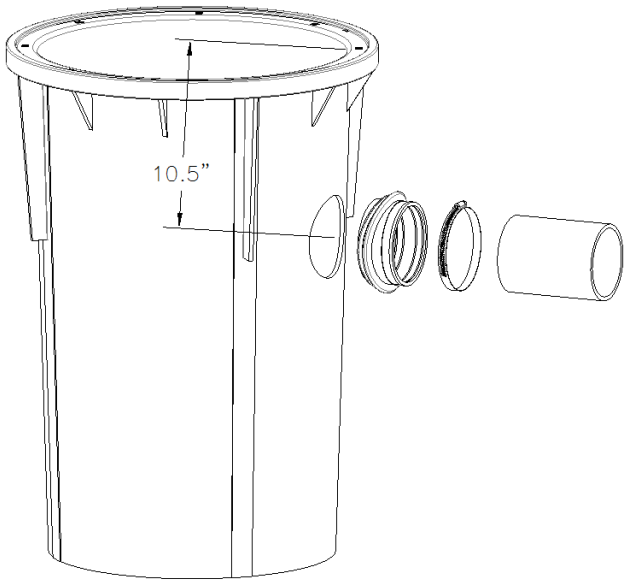
1 Installing the basin

- □ Remove the eight outer bolts securing the cover to the basin and set aside. Take the cover off the basin.
- □ Remove the contents from the basin and remove the components shown in the product description above from their packaging.
- □ Excavate a hole large enough to accommodate the basin (A), backfill material (1) and inlet piping (2).
- □ Add 4 – 6 in. of clean sub-base material or concrete (3) to the bottom of the hole.
- □ Assure that it is level, compacted, and smooth.
- □ Place the basin (A) in the hole and ensure that it is level.



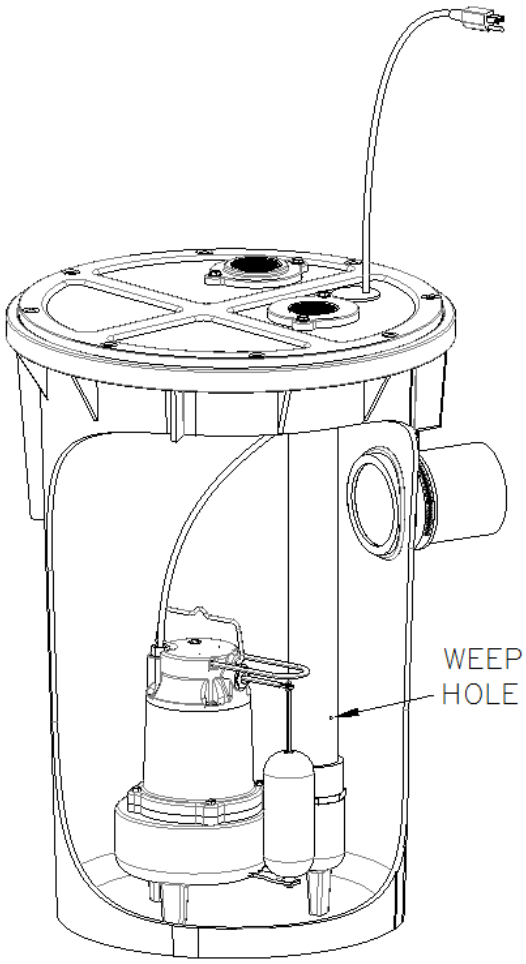
Installation

2 Connecting the inlet piping



- □ The center of the inlet opening is 10.5 in. from the top inside edge of the basin.
- □ Insert the 4” Snap-In Hub into the inlet hole in the basin so that the basin wall is between the two curved flanges of the hub. Make sure the word “TOP” on the hub is facing up.
- □ Insert your 4” inlet piping into the 4” Snap-In Hub at least up to the stop in the hub. Hand-Tighten the hose clamp.
- □ Carefully backfill with naturally rounded gravel or stone, larger than 3/8 in. and smaller than 3/4 in. diameter, around the periphery of the basin.
- □ Finish the floor to grade as required by code.

3 Installing the pump and cover

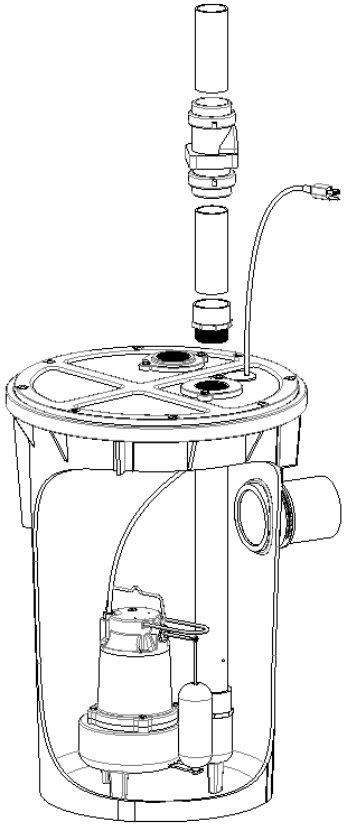


- □ Wrap the threads of the discharge pipe assembly with thread seal tape. Screw the discharge assembly into the pump’s discharge opening. Make sure the weep hole is pointing away from the float.
- □ Position the pump in the bottom of the basin so that influent from the inlet pipe will not fall directly on the pump’s float switch.
- □ Make sure the reusable cover seal is in place on the top edge of the basin lined up with the basin bolt holes.
- □ Place the basin cover loosely on the basin. Remove the cord grommet and set aside.
- □ Thread the pump’s power cord through the cord opening in cover.
- □ Position the cover so that the discharge pipe assembly is inserted into the socket of the discharge socket flange on the underside of the cover. Do not glue.
- □ Reposition the cover and pump assembly as needed so that the cover bolt holes line up with the bolt holes on the basin and reinstall the cover bolts.
- □ Press the cord through the slit and into the hole in the cord grommet and press the grommet into the cord hole in the cover to provide a tight seal.

Installation

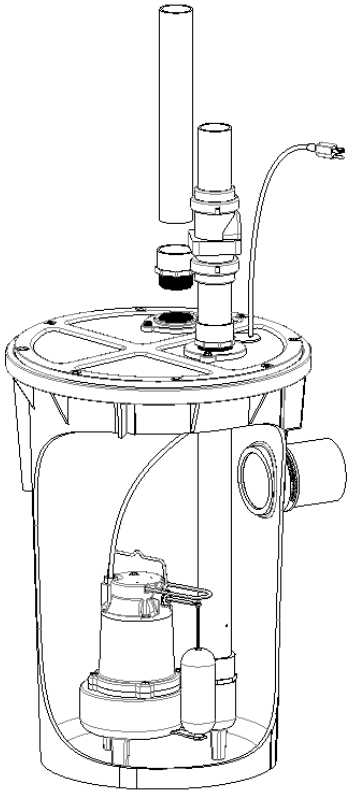
4 Connecting the discharge piping

- □ Install a 2 in. PVC Schedule 40 threaded male adapter (not included) into the discharge flange on the top of the cover. Use thread seal tape to seal the threads. Make sure that you are connecting to the sewage pump discharge and not the vent.
- □ Connect 2 in. PVC Schedule 40 discharge pipe (not included) to the male adapter using PVC primer and solvent cement to properly seal the connection.
- □ Install the 2 in. compression fit check valve to the discharge line. Ensure the flow arrow on the check valve is pointed in the right direction. Hand tighten fittings to ensure a watertight seal.
- □ Install 2 in. PVC Schedule 40 pipe into the check valve and connect this pipe to the appropriate sewer main pipe for discharge. Hand tighten the fittings to ensure a watertight seal.
- □ It is a good idea to install a shutoff valve in the discharge line between check valve and the sewer if service to the system is required in the future.



5 Attaching the vent connection

- □ Install a 2 in. PVC Schedule 40 threaded male adaptor (not included) into the vent flange. Use thread seal tape to seal the threads.
- □ Connect a 2 in. PVC Schedule 40 vent pipe (not included) to the male adaptor using PVC primer and solvent cement to properly seal the connection. Connect the vent pipe to the sewer's vent system according to local codes.
- □ It is a good idea to install a union in the vent line if service to the system is required in the future.



6 Connecting the power and verifying proper operation

- □ Connect the power cord to a properly grounded GFCI outlet in accordance with the information in the safety section of this guide.
- □ Check for proper system operation by filling the basin with water and observe the pump's operation through one complete cycle.

Pump Performance Chart

HP	Volt	Amps	GPH of Water @ Total Feet of Lift						Max. Lift
			0 ft.	5 ft.	10 ft.	15 ft.	20 ft.	25 ft.	
1/2	115V	9.4A	8200	7800	6420	4800	2100	--	22ft

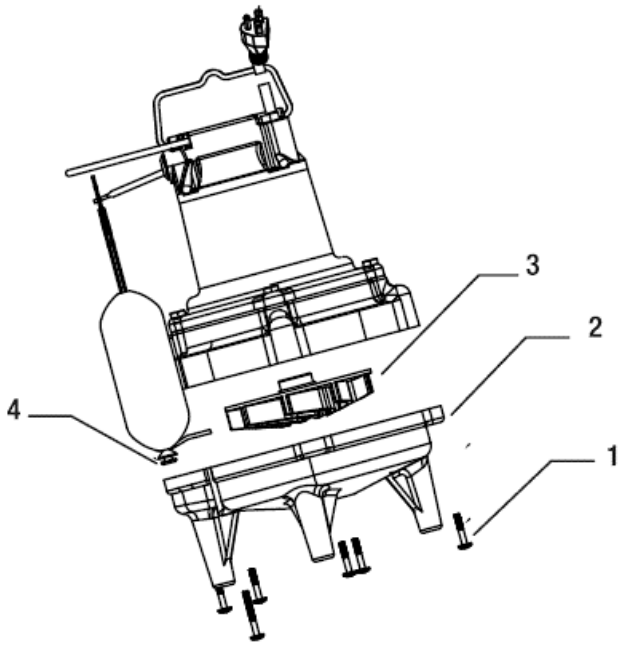
Care and Cleaning

To clear a pump that is clogged with debris:

- Unplug the pump to disconnect the electrical power.
- Unscrew the six screws (1) on the pump body and take the rubber belt (4) down from the volute (2).
- Remove the volute (2).
- Remove debris from around the impeller (3).
- Reassemble the pump.

ADDITIONAL MAINTENANCE GUIDELINES

- This unit is permanently lubricated. Oiling is not required. Do not, in any case, open the sealed portion of the unit or remove the housing screws.
- Periodic cleaning of the pump parts will prolong the LIFE and EFFICIENCY of the pump. Refer to the assembly and disassembly of the pumping head.
- Ensure the power cord is in good condition and contains no nicks or cuts.



Troubleshooting

CAUTION: Call an electrician when in doubt. The pump should be connected to a separate 15 A circuit breaker or 15 A fuse block. Note that plugging into existing outlets may cause low voltage at the motor. This could cause blown fuses tripping of motor overload, or a burned-out motor.

WARNING: Before servicing a pump, always shut off the main breaker and unplug the pump. Under flooded conditions, make sure you are not standing in water and that you are wearing insulated protective sole shoes. Contact your electric company or a qualified licensed electrician for disconnecting electrical service prior to pump removal.

Problem	Probable Causes and Solutions
The pump does not run and makes a humming sound.	□ The line circuit breaker is off, or the fuse is blown or loose. □ The water level in the basin has not reached turn-on level as indicated in the Installation Requirements drawing. □ The pump cord is not making contact in the receptacle. □ The float is stuck. It should operate freely in the basin. □ If all of the above are OK, then the motor could be malfunctioning.
The pump runs but does not deliver water.	□ Check if the check valve is installed backwards. The arrow on the check valve should point in the direction of flow. □ The gate valve (if used) may be closed. □ The impeller or volute openings are fully or partially clogged. Remove the pump and clean. □ The pump is air-locked. Start and stop several times by plugging and unplugging the cord. Check for clogged vent hole in the pump case or discharge pipe and/or no vent hole in the pump case or discharge pipe. □ The inlet holes in the pump base are clogged. Remove the pump and clean the openings. □ The vertical pumping distance is too high. Reduce the distance or change the discharge fittings of the pump.
The pump runs and pumps out sump, but does not stop.	□ The float is stuck in the up position. Be sure the float operates freely in the basin. □ The float switch is defective. Replace the float switch.
The pump runs but only delivers a small amount of water.	□ The pump is air-locked. Start and stop several times by plugging in and unplugging the cord. Check for a clogged vent hole in the pump case. □ The vertical pumping distance is too high. Reduce the distance or change the discharge fitting of the pump. □ Inlet holes in the pump base are clogged. Remove the pump and clean the strainer and openings. □ The impeller or volute openings are fully or partially clogged. Remove the pump and clean.
The fuse blows or circuit breaker trips when the pump starts.	□ The pump impeller is partially clogged, causing the motor to run slowly and overload. Remove the pump and clean. □ The motor stator may be defective. □ The fuse size or circuit breaker may be too small (must be 15 A). □ The impeller or volute openings are fully or partially clogged. Remove the pump and clean.
The motor runs for a short time and then stops.	□ The inlet holes in the pump base are clogged. Remove the pump and clean the openings. □ The pump impeller is partially clogged, causing the motor to run slowly and overload. Remove the pump and clean. □ The motor stator may be defective. □ The impeller or volute openings are fully or partially clogged. Remove the pump and clean. Also clean the strainer if one is installed.

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Retain this manual for future use.