



SUMP PUMP SYSTEM
OEM INSTALLATION MANUAL

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System and Safety Information

The Sump Pump System (LCI Model Number: 699926) is a 12V DC system designed for 600 GPH flow. The cover snaps on to allow quick installation, and also to permit easy filter removal for cleaning.

A gasket seals the sump box against overflow, and the sump box has an air vent to prevent air locks. Multiple inlets can be hooked up to more than one drain with different hose size options.

The specifications for the sump pump system include 3.2 feet of wire lead and 2.6 pounds net weight and 3.8 pounds gross weight. Pressure head is 2.5 meters/8 feet/3.5 psi.

WARNING

The “WARNING” symbol above is a sign that an installation procedure has a safety risk involved and may cause death or serious injury if not performed safely and within the parameters set forth in this manual. Always wear eye protection when performing this installation procedure. Other safety equipment to consider would be hearing protection, gloves and possibly a full face shield, depending on the nature of the installation procedure.

CAUTION

The sump pump system may be used only for water/bilge water and not for any other liquid. The pump should not be run dry.

CAUTION

Moving parts can pinch, crush or cut. Keep clear and use caution.

Preparation

Resources Required

- Cordless or Electric Drill or Screw Gun
- Appropriate Drill and Drive Bits
- Hose Clamps
- Wire Connectors
- Hacksaw
- Step Drill Bit (Optional for Drilling Hole in Plastic)
- File
- Phillips Screwdriver
- Wire Cutter/Stripper
- Four Screws for Mounting Brackets
- 5 Amp Fuse
- 10 Amp Switch (Optional)
- Marine Sealant

Installation

Plumbing

1. Determine location for the sump pump system, making sure system is lower than the drains.

NOTE: For correct operation of the automatic float switch, the sump box should be mounted horizontally and level.

2. Drill four pilot holes for the mounting brackets located on both sides of the box (Fig. 1).
3. Install four screws in the mounting brackets to secure the sump box.
4. Determine the size of the hose from the drain(s).
5. Saw off or drill out the end of the appropriately-sized port(s) to be used for the inlet hose(s).

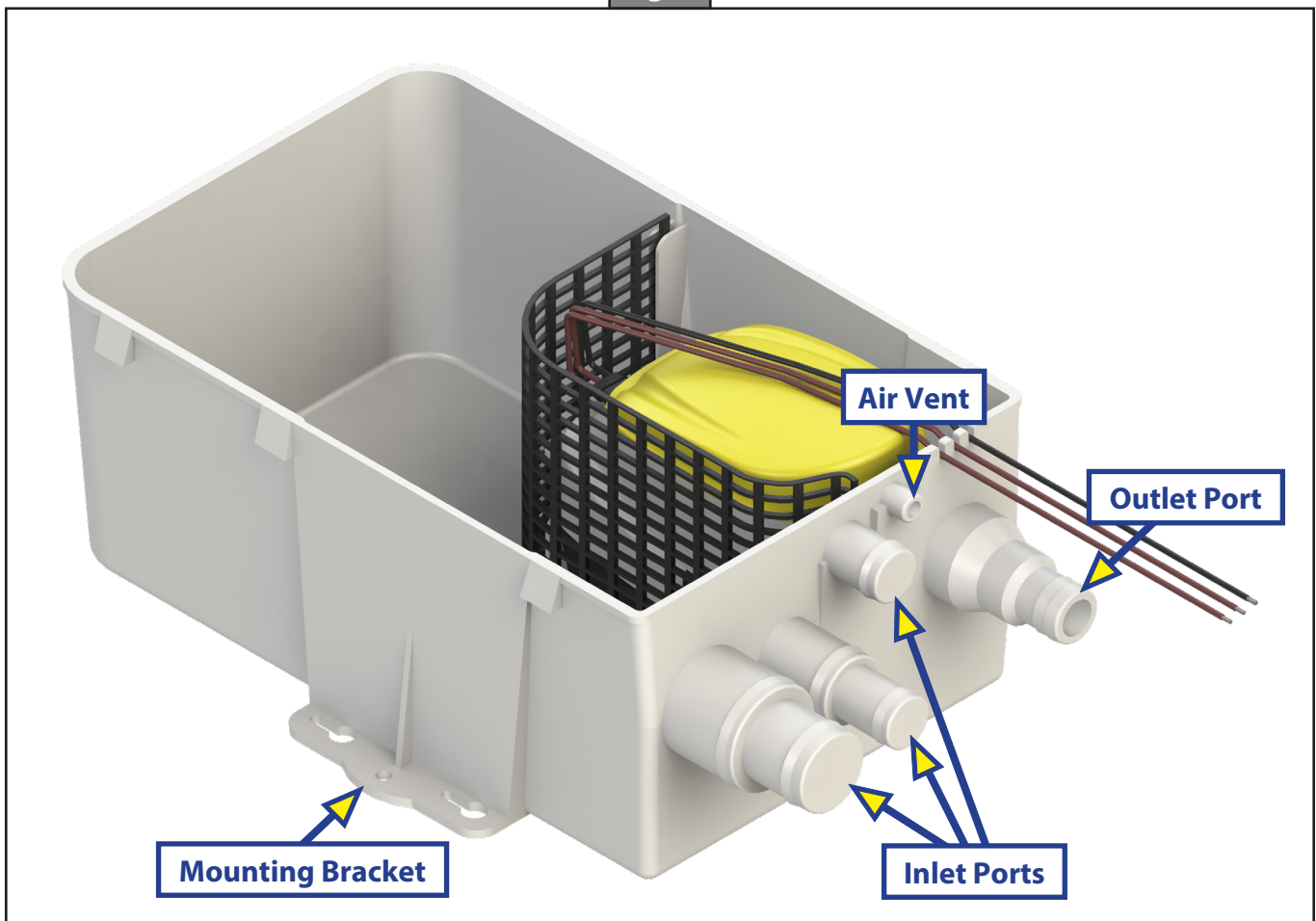
NOTE: There are three closed ports of various diameters from which to select an inlet port, and two of the ports have two different diameter options. The inlet port sizes include: 1 x $\frac{3}{4}$ "; 1 x $\frac{3}{4}$ " or 1 x 1"; and 1 x 1 $\frac{1}{8}$ " or 1 x 1 $\frac{1}{2}$ ". The outlet port is open (Fig. 1).

6. File the cut end of the port(s) to remove burrs and rough edges.
7. Connect a $\frac{3}{4}$ " inner diameter discharge hose to the outlet port and secure with a hose clamp.

NOTE: A dip in the discharge hose can trap water and air inside the system.

8. Connect the inlet hose from the drain(s) and secure with a hose clamp(s).

Fig. 1



⚠ CAUTION

Use of 12V DC power is required. Higher DC voltage or AC voltage may cause damage or personal injury. The circuit for the sump pump system must also be properly fused to prevent potential fire hazard or damage if the pump is jammed.

1. Extend the three wires from the pump through the slots in the top of the box, which are located above the outlet port (Fig. 2).
2. For automatic float function, connect the positive lead (brown/white wire) (Fig. 2) to the positive terminal of the battery.

NOTE: A 5 amp fuse is also required per applicable codes.

3. Connect the negative ground wire (black wire) (Fig. 2) to the negative terminal of the battery.

NOTE: A 10 amp OEM-supplied ignition-protected switch may be installed with the pump.

If using a switch, utilize the brown wire (Fig. 2) instead of the brown/white wire and connect the brown wire to the switch. Then a second positive wire of the same size should be extended from the switch and connected to the positive terminal of the battery. The switch will operate the pump independently of the float switch, and will manually turn the pump on and off.

NOTE: All electrical wiring must be clamped with the connections well above bilge water level. Do not remove more insulation than necessary. All wiring connections and unused wiring should be sealed with a marine sealant to prevent oxidation.

4. Test the pump connections by turning the test knob clockwise. The knob is located at the back of the pump under the wire harness (Fig. 3).
5. Snap on the cover, making sure the gasket seals (Fig.3).
6. The sump pump system is ready for use.

Fig. 2

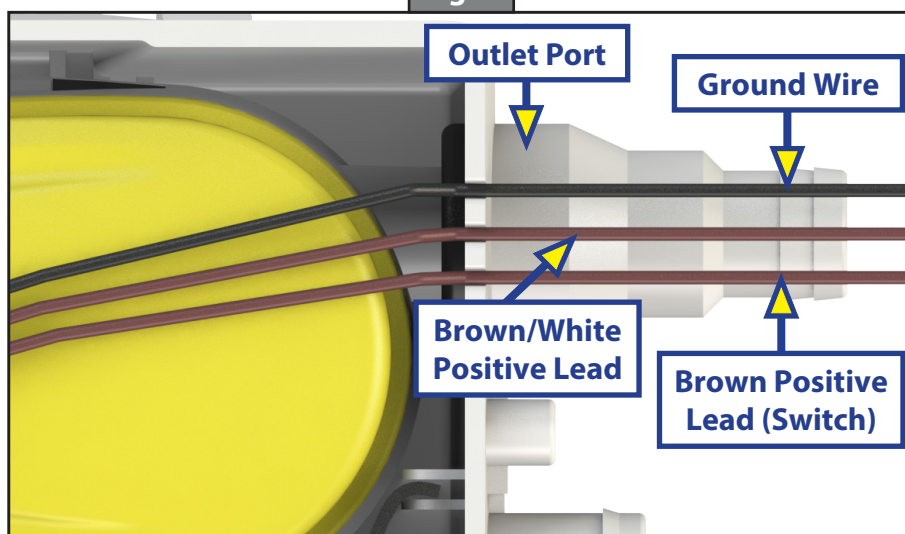
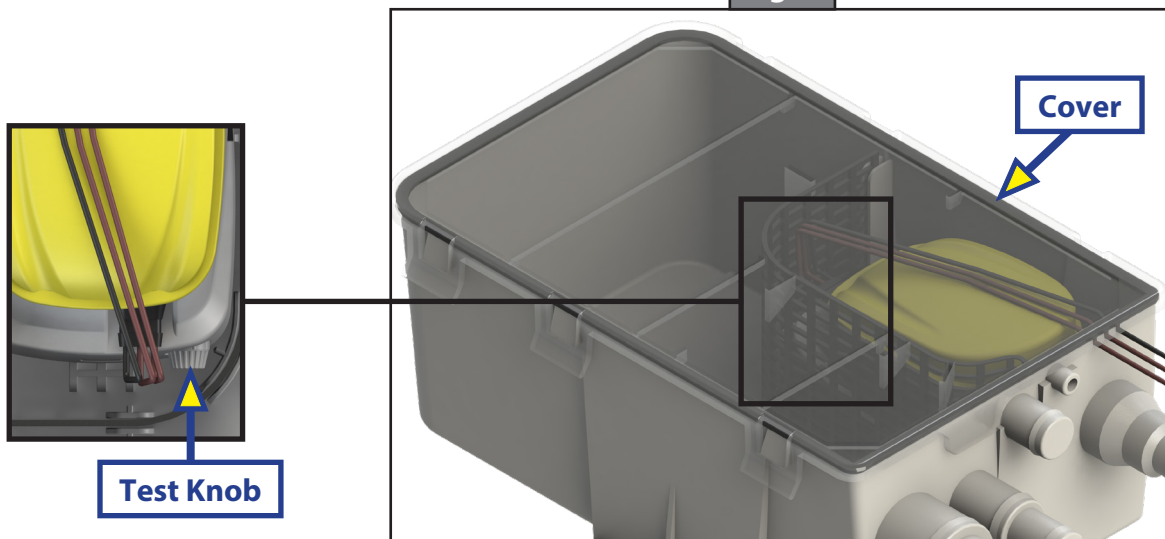


Fig. 3



Operation

When the drain water rises and reaches the second detector cell at about 1 ½" to 2" depth, the automatic float switch will start the pump. When the water level has sunk to about an inch and the first detector cell is above the water level, the pump will stop.

The system is also constructed with a valve on the outlet port that will close to prevent the backflow of water into the box.



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