



**SUMP PUMP SYSTEM
OWNER'S MANUAL**

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System and Safety Information

The Sump Pump System by Duraself (Model Number: DS-600GSP-M) 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, 2.6 pounds net weight and 3.8 pounds gross weight. Pressure head is 2.5 meters/8 feet/3.5 psi.

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.

Operation

When the drain water rises and reaches the second detector cell at about 1 ½" to 2" deep, 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 constructed with a check valve on the outlet port that will close to prevent the backflow of water into the box.

Maintenance

It is recommended to periodically clean the plastic mesh screen filter (Fig. 1) for improved performance.

NOTE: The motor and float switch assembly (Fig. 1) can be pulled out to aid in removal of hair or debris.

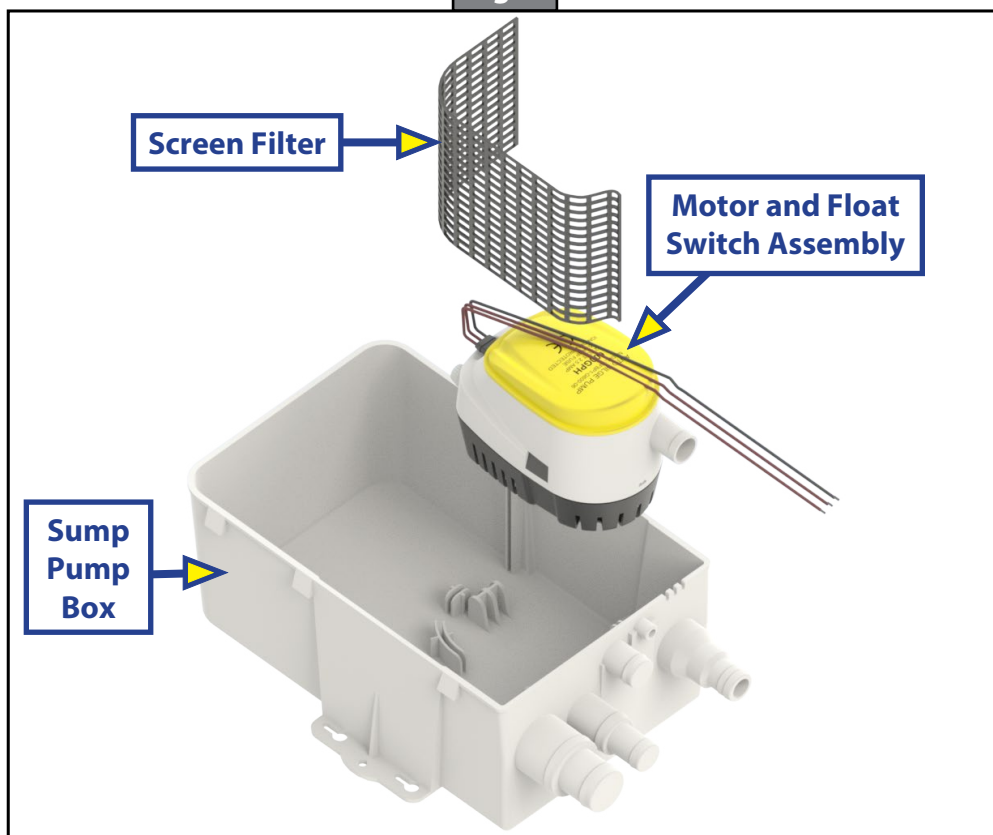
1. Remove the cover and slip out the screen filter (Fig. 1).
2. Use only mild soap and water to clean the screen filter, wipe off the pump and clean out the sump box (Fig.1).
3. When finished cleaning, reinstall pump (if removed) and screen filter and replace cover.

The sump pump box should be drained during the winter months.

1. Disconnect and drain all lines to the box.
2. Remove mounting screws and empty the box.

NOTE: If it is impractical to drain the system, a non-toxic RV/marine antifreeze can be added to the drain and circulated through the system.

Fig. 1



Troubleshooting

What Is Happening?	Why?	What Should Be Done?
Pump will not turn on	Line clogged	Check if line is plugged or broken.
	No power	Check if the fuse is blown and manual switch is on.
	Incomplete circuit	Check for loose or broken wires.
	Float switch off	Check if the float switch is jammed in the "off" position.
Pump will not turn off	Incomplete circuit	Check for loose or broken wires.
	Float switch on	Check if the float switch is jammed in the "on" position.
	Mounting not level	Determine if the box is level.
Pump output is low	Wires reversed	Determine if system's electrical connections are reversed.
	Line clogged	Check if line is plugged or restricted.
System is leaking at inlet/outlet connection	Clamp missing	Check if hose clamp is missing.
	Loose hose	Determine if hose clamp or pipe connection is loose.
Pump turns on but does not pump	Line clogged	Check if line is plugged.
Water returns to sump from outlet hose	Check valve problem	Determine if check valve is plugged or damaged.



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