

Master Owner's Manual

Sewer and Fresh Water



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COMPONENTS®

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Master Owner's Manual

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Introduction

Unlike traditional hose coils that trap debris, the Waste Master® hose is designed with its helical coil on the outside, while the inside is much smoother, preventing waste from getting trapped inside the hose. The UV-protected hose features "stay put" technology that keeps it extended during use to the exact length required. The Waste Master will feature either a cam lock connection or a bayonet connection from the Waste Master hose to the unit's waste water outlet pipe.

The Waste Master optional storage box may be mounted on the chassis in proximity to the unit's waste water outlet pipe for a permanent cam lock or bayonet connection. The storage box may also be mounted elsewhere on the unit for convenient storage of the Waste Master hose and nozzle assembly.

CAUTION

Use proper personal protective equipment when operating the Waste Master system. PPE to consider could include gloves and goggles.

Operation

1. Unlock and open the Waste Master storage box door (Fig. 1A).
2. Pull the Waste Master nozzle (Fig. 1B) from the storage box and slightly open the nozzle using the lever (Fig. 2A) to allow air to enter as hose extends. "Open" (Fig. 2B) and "Close" (Fig. 2C) are marked on the nozzle.

NOTE: If your system is not permanently connected to the unit's waste water outlet pipe, remove the entire Waste Master hose from the storage box. Connect the hose to the fitting (cam lock or optional bayonet adapter) at the waste water outlet pipe.

- A. If equipped with a cam lock (Fig. 3) open the cam lock arms on the unit's waste water outlet pipe. The arms open away from the unit. Insert end of the Waste Master hose into the cam lock. Close the arms.
 - B. If equipped with bayonet fitting (Fig. 5), place the hose's bayonet fitting on the unit's waste water outlet pipe. Turn the bayonet fitting clockwise to lock into place.
3. Walk to the sewer inlet and insert the tapered end of the nozzle into the sewer inlet. Close the nozzle using the lever.
 4. Walk back to the unit and open the black tank gate valve on the unit.
 5. Open the nozzle by turning the lever. Let the black tank fully drain and then close the nozzle and the black tank gate valve on the unit.

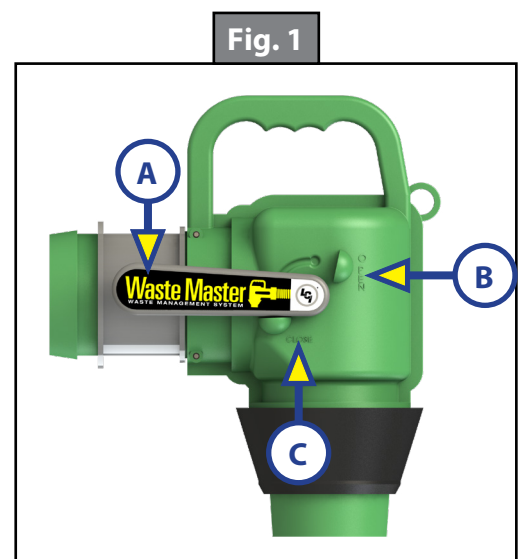
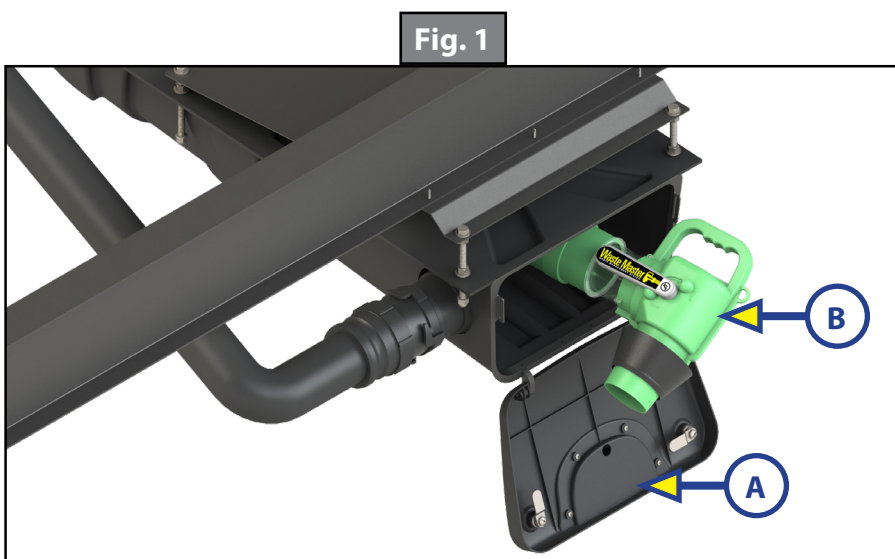
NOTE: Common industry practice is to empty the black (waste water) tank first, followed by the gray (sink and shower water) tank(s). This order allows the gray water to flush out the sewer hose and helps prevent sewage from remaining in the hose after emptying the tanks.

6. Open the gray tank gate valve on the unit.
7. Open the nozzle by turning the lever. Let the gray tank fully drain. Close the nozzle, but leave the gray tank gate valve on the unit open to allow air to purge as the hose retracts.
8. Once tanks are empty, hold the nozzle and walk back to the unit. Lay the nozzle on the ground, grasp hose near the storage box and begin to collapse the hose and push it back into the storage box.

NOTE: If your system is not permanently connected to the unit's waste water outlet pipe, disconnect the hose from the fitting (cam lock or bayonet) at the waste water outlet pipe:

- C. If equipped with a cam lock fitting, open the cam lock arms and disconnect the hose. The arms open away from the unit.
 - D. If equipped with a bayonet fitting, turn the fitting counterclockwise and disconnect the hose.
 - E. Collapse the hose and insert it into the storage box, if equipped.
9. Close the storage box door and the gray tank gate valve upon completion.

NOTE: The lever on the side of the nozzle must be in the closed position during storage and transportation.

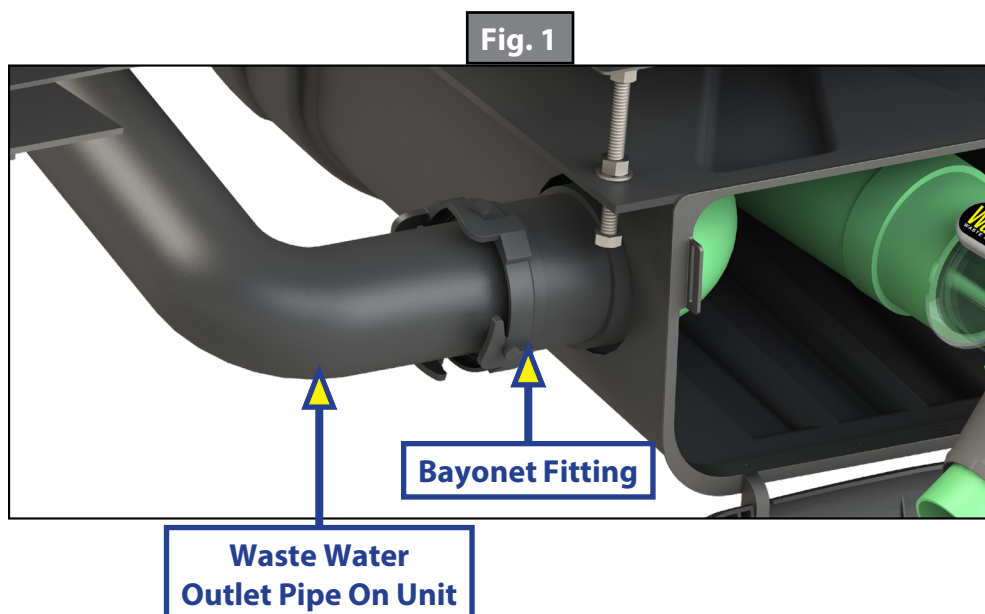
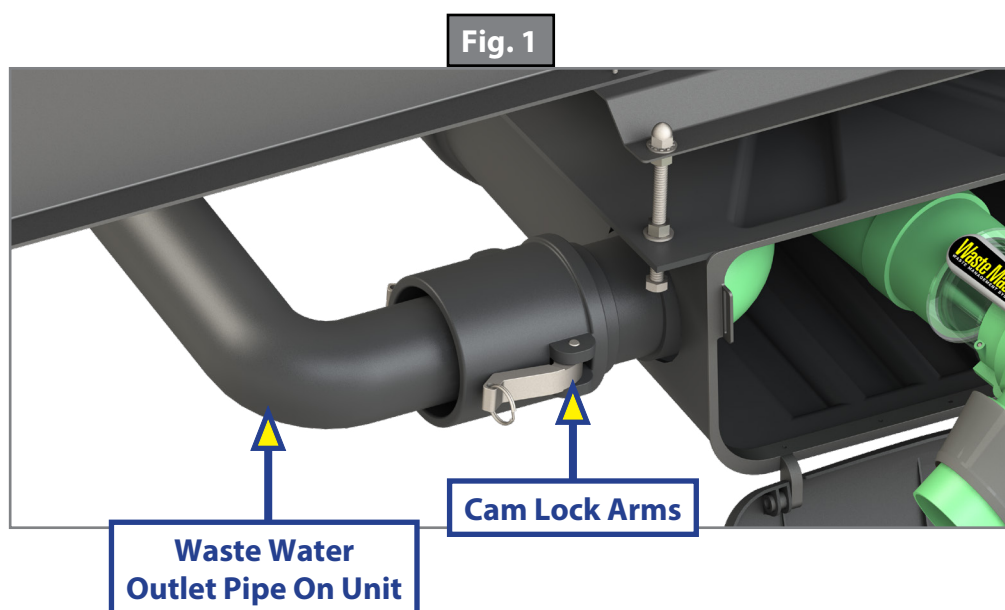


Troubleshooting

Hose Removal (If System Has Permanent Connection to Unit)

1. The unit's waste water outlet pipe will be fitted with either a Waste Master cam lock or Waste Master optional bayonet adapter. To remove the hose assembly from the waste water outlet:
 - F. If equipped with cam lock (Fig. 3): Release the two secure cam lock arms from the female section of the Waste Master (arms open toward the Waste Master box). Once both arms are opened, the hose section should separate from the waste water outlet.
 - G. If equipped with the optional bayonet adapter kit (Fig. 5): Turn the bayonet fitting counter-clockwise to separate hose section from the waste water outlet.
2. Remove the entire length of hose from the box.
3. If equipped with cam lock, insert the provided cam lock cap (Fig. 4A) into the cam lock to insure that no waste water drips from the terminal end of the plumbing.

NOTE: The cam lock cap is required during storage and transportation of the unit if the male cam lock fitting on the hose is not locked into the female cam lock fitting at the unit.



Nozzle Replacement

Resources Required

- Waste Master Ball Valve Kit - PN 349521 (Fig. 6)
- Waste Master Seal Replacement Kit - PN 360807 (Fig. 7)
- 1/8" Punch
- Hammer

1. At the nozzle, drive the two pins (Fig. 8A) out with a 1/8" punch and hammer.

NOTE: Drive pins out toward operating lever.

2. Remove nozzle from hose.
3. Before installing new nozzle, make sure new end seal (Fig. 8B) is in place in the bottom of the nozzle (flat end of seal in groove in nozzle).
4. Coat the seal with Dow Corning 111 lubricant (included in kit).
5. Install new nozzle on hose.
6. Drive pins back into place.

NOTE: Install new pins from operating lever side, smooth end first.

Fig. 1



Fig. 1

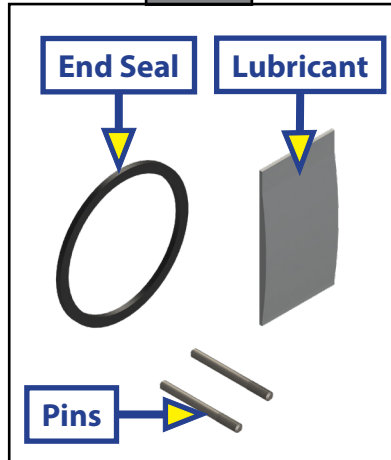
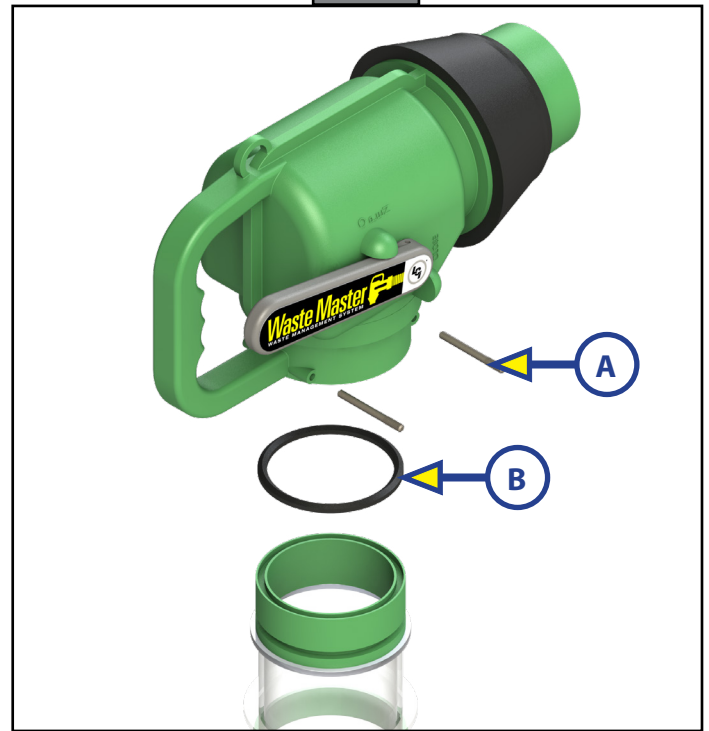


Fig. 1



SUMP PUMP SYSTEM

SEWER AND FRESH WATER

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 1/2" 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.

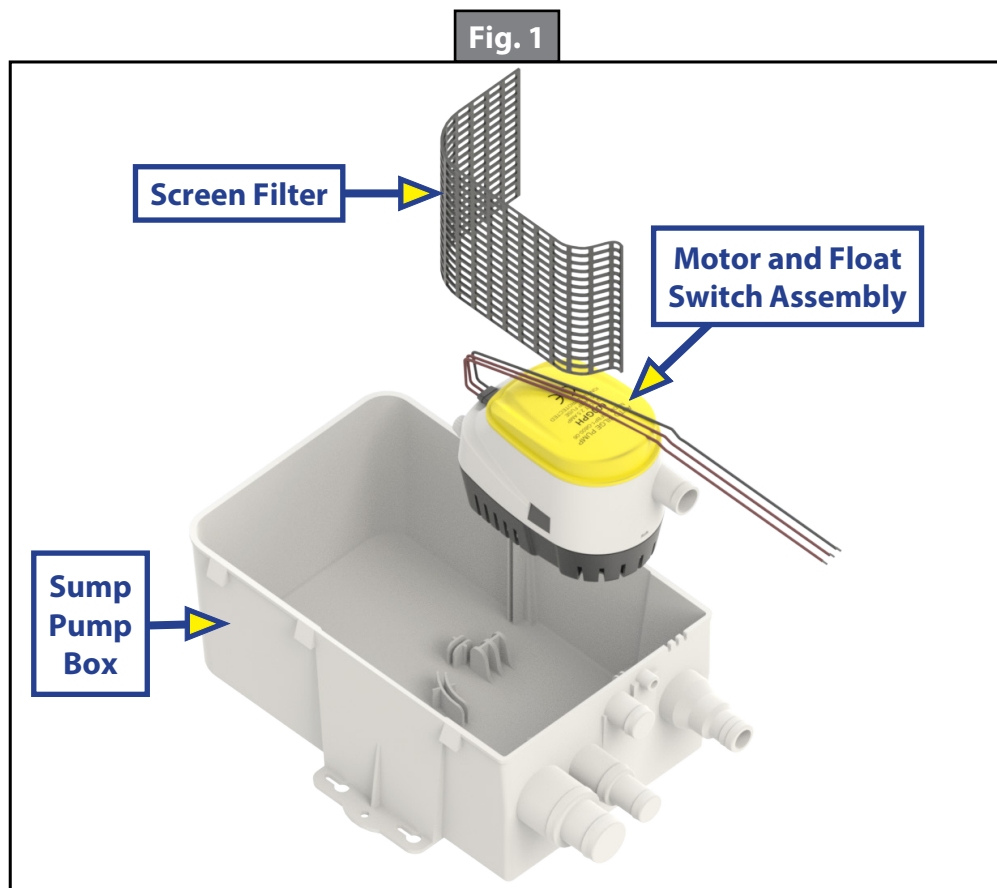
NOTE: The motor and float switch assembly (Fig. 1) can be pulled out to aid in removal of hair or debris.

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.



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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