

FLUSHSTAR



Made in the U.S.A.

CLEAN & GREEN

Engine Flushing Technology™

No noise, No emissions, No pollution

FS-3/4

Manual

3 or 4 Engine
Automatic Flushing
System



Tools Required

1. Pair of Dykes or Razor Knife
2. 8" Phillips Head Screwdriver
3. 2" #2 Flat Head Screwdriver
4. 8" #2 Flat Head Screwdriver
5. S.A.E. Socket and Wrench Set
6. 3/8" Power Drill
7. 1/8" Drill Bit
8. 1 1/8" Hole Saw for Single Inlet Fitting
9. Jig Saw with Wood Blade for the Multi-Inlet Fitting
10. Small Supply of Hand Cleaner and a Towel
11. Pencil
12. Tape Measure
13. Teflon Tape

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ABOUT THE SYSTEM

The FlushStar System Is the most innovative, user and environmentally friendly product ever made for the care and service of twin, triple and quad engined outboard powered craft, both domestic or Governmental.

The system uses a custom logic board designed and manufactured by FS in conjunction with plastic, alloy and stainless steel components for complete reliability and years of trouble free service. The 12 VDC system is Plug n Play, requires no additional programming, and is easily installed. The FS-3 is water resistant and can be installed in bilge spaces. NOTE: The FlushStar 4 and above is designed to be installed in a DRY SPACE to protect the electronics. Waterproof housings are available upon request.

PRECAUTIONS!

Always wear safety glasses when using power tools.

1. FlushStar should only be installed on the recommended engine system that it is designed for.
2. If you have any questions, please call FS Technical support at **334-258-5227**
3. Be sure to disconnect the dockside water source from the FlushStar system before leaving the boat. All of the FlushStar components are very highly rated, but your dock hose might not be.

INSTALLATION OVERVIEW

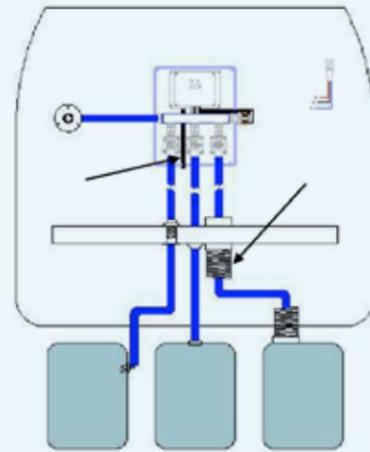
Although it is recommended that this system be installed by a professional, most do-it-yourselfers should be able to install the system.

The Installation Consists of a 5 Step Process

1. Installation of the EZ Flush Panel
2. Mounting the Unit
3. Installation of the activation Switch
4. Connecting to the on-board 12 VDC system. Routing the flush lines.
5. Testing

IMPORTANT!

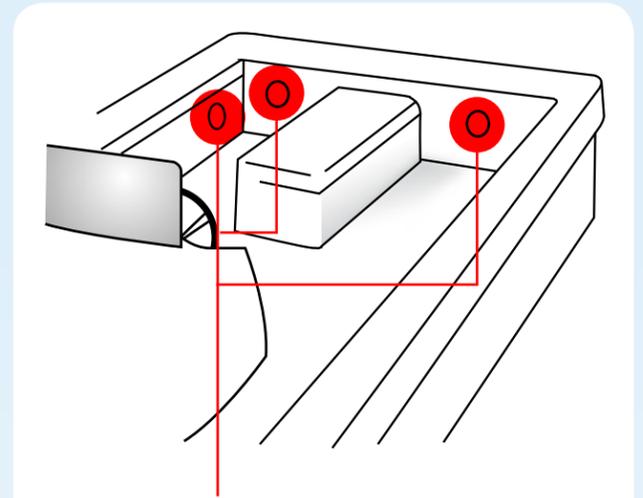
Do not begin installation of the system until you have thoroughly read through this manual. Make sure that you have all of the necessary tools to complete the project before starting. For safety, please disconnect battery, or turn battery switch off.



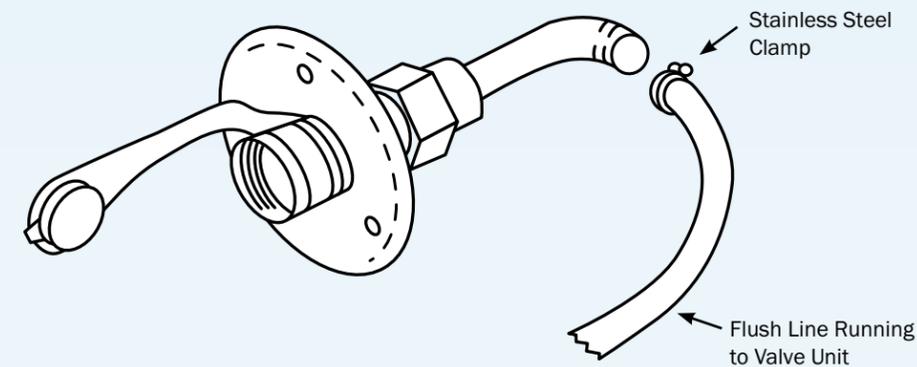
INSTALLING THE EZ FLUSH PANEL

The hose connection access panel (EZ Flush) can be mounted on any aft surface including outside of the hull.

1. Choose location carefully.
2. To install the single inlet fitting, simply place drill in desired location and drill one, 1/8" hole as pilot, then drill a 1 - 1/4" hole.
3. Insert access panel and mark holes for other screws.
4. Remove panel and drill three 1/8" holes.
5. Insert hose onto hose barb and clamp hose to the hose barb on the access panel and secure access panel with S.S. Screws provided.
6. Route the inlet line connected to access panel down to the engine.



The aft area of the boat makes for an excellent location for the installation of the fresh water Hose connection access panel. The above picture show possible locations for the placement of the panel.



Extruded Panel comes standard with each single engine kit. For installation, you will need a 1 - 1/4 hole saw.



Example of Outside The hull Connection

INSTALLING THE FS-3

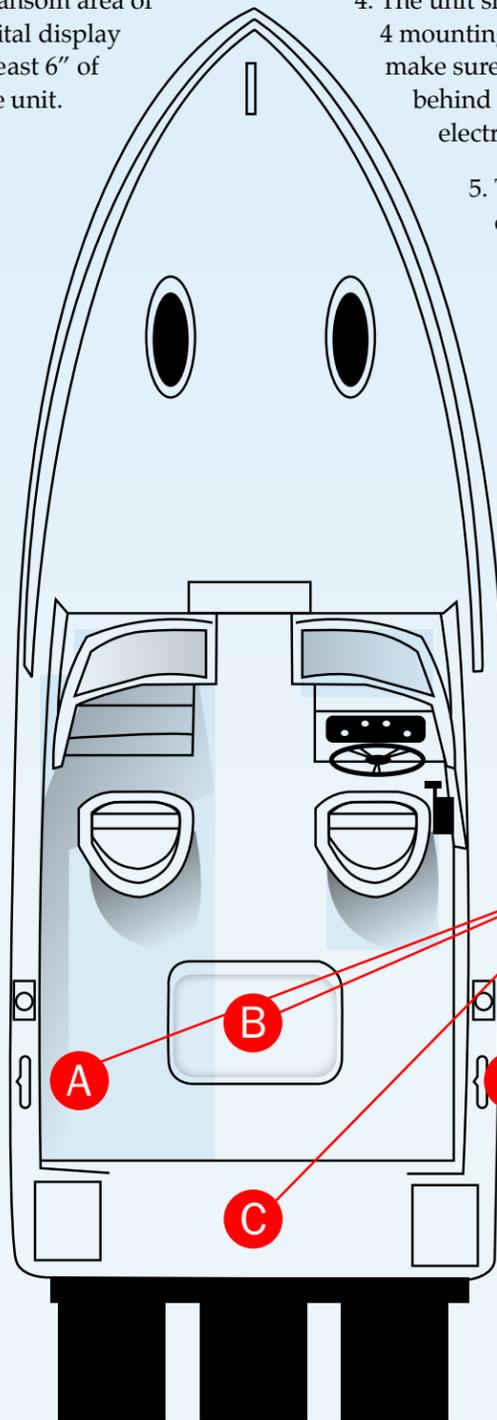


1. Find a suitable location in the transom area of the boat. Make sure that the digital display is viewable and that there is at least 6" of clearance from the bottom of the unit.

2. Suggested mounting points are indicated in the graphic below.

- A** Port aft side.
- B** Aft center storage locker.
- C** Aft transom access area.
- D** Starboard aft side.

3. Samples of actual installation are shown in the photographs (1) and (2).



4. The unit should be firmly mounted using all 4 mounting bolts or screws. If using screws, make sure there is adequate clearance behind the panel or bulkhead and no electrical or fluid lines in the way.

5. The unit should be mounted as close as practical to the transom.

6. Make sure there is access to the fresh water hose connection and a route to the transom for the flush lines.

7. Route and connect the inlet hose and secure with stainless steel clamps provided.



FS-3 Wiring Schematic

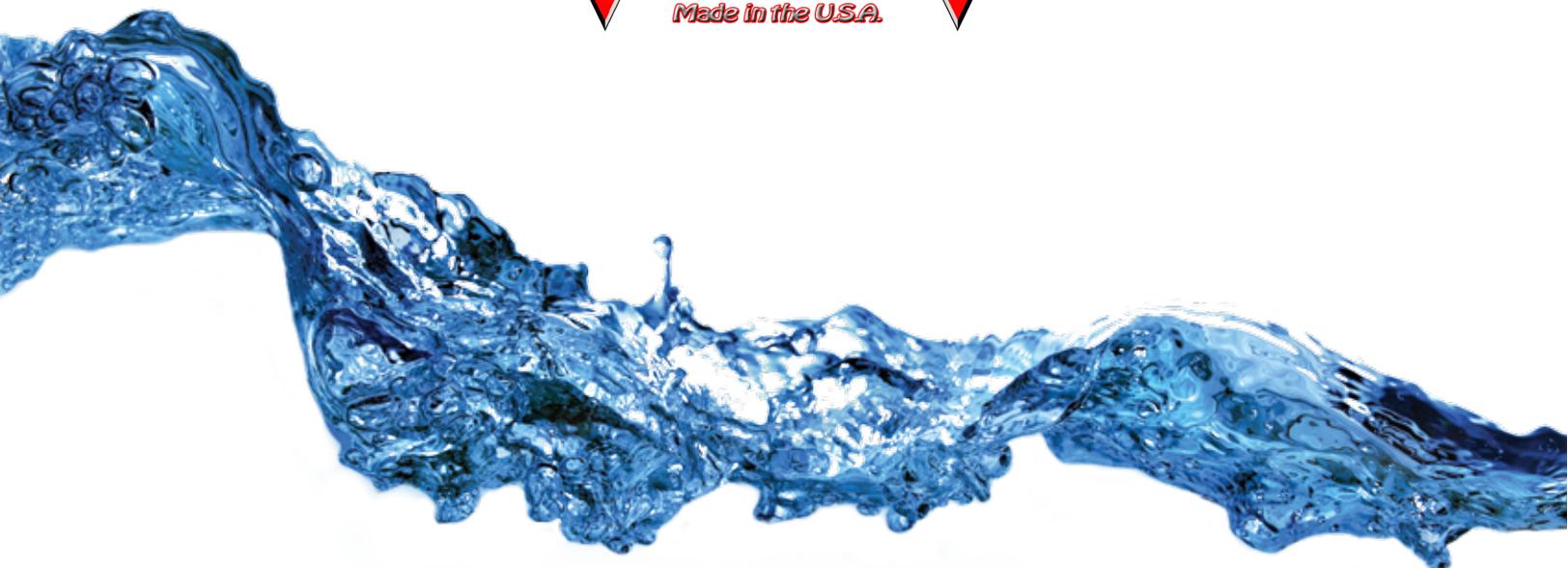


Make sure the main battery switch is in the off position or the lead disconnected before beginning this phase.

1. Route the power leads to the activation switch site. Preferred locations are in the transom area or at the operator console.
2. Following the schematic above, make all the connections specified.
3. **BE SURE** to use either a 10 amp circuit breaker or fuse.
4. Turn on or reconnect the battery.
5. Push the activation switch. You should see a blue glow from the switch assembly. If not turn off battery and recheck connections.
6. If you have power to the switch, Look at the LED readout on the FS-3.



FLUSHSTAR



- **Hassle-Free Flushing**
- **Saves Time**
- **Unattended Flushing**

STATE-OF-THE-ART marine engine flushing and corrosion control system designed for outboard motors, sterndrive, and inboard engines.

CLEAN & GREEN
Engine Flushing Technology™
No noise, No emissions, No pollution

FlushStar is a green solution: Works with a garden hose without the engine running - Works in or out of the water.



Protect your engine and your lifestyle

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