



SERVICE BULLETIN

BULLETIN: 07-06

DATE: 8/29/2006

SUBJECT: 33C AFT BILGE PUMP ADDITION

HULL #s: STNAU101E607 through STNAU109F607

The original design of the Silverton 33 Convertible did not incorporate a bilge pump in the aft section of the bilge. Due to recent testing, Silverton has elected to add in another pump in the aft section of the bilge, in order to evacuate any bilge water while the boat is underway. This Service Bulletin covers the installation of a new, automatic (no manual override) aft bilge pump and all necessary accompanying components in the boats hull numbers listed above.

Parts List

- ∞ Bilge Pump Mounting Board- 6" x 10" x 3/4" Treated Plywood, with 45° Beveled Edges, QTY 1
- ∞ Bilge Pump- Rule 2000 gph capacity, 12V, 1-1/8" OD Outlet, SMC # 1000662, QTY 1
- ∞ Float Switch- Rule Rule-A-Matic Plus, Non- Mercury Filled, SMC# 1000706, QTY 1
- ∞ 1-18" Hose Barbed Stainless Steel thru hull, SMC# 1003492
- ∞ Hose Clamps, Stainless Steel, #20, SMC# 1000184 QTY 4
- ∞ 1-1/8" ID PVC Bilge-Vac Hose, SMC# 1004498, QTY 14 feet
- ∞ Large Screw-Eye Cable Ties, SMC# 1014008, QTY 25
- ∞ #10 x 3/4" Stainless Steel Screw, Phillips Pan Head, SMC#1000403, QTY 25
- ∞ #8 x 1-1/4" Stainless Steel screw, Phillips Pan Head, SMC# 1000436, QTY 2
- ∞ #8 x " Stainless Steel Screw, Phillips Pan Head SMC#1000442, QTY 5
- ∞ Inline Fuse Holder, SMC# 1002384, QTY 1
- ∞ Fuse- Two Blade, Automotive Type, 15 A, SMC# 1014015, QTY 1
- ∞ Electrical Terminal, 10-12 Gauge Yellow, 3/8 Ring, SMC# 1002363, QTY 2
- ∞ Electrical Terminal, Butt Splice, 12-10 GA Heat Shrink, SMC# 1000106, QTY 2
- ∞ Electrical Terminal, Butt Splice, 16-14 Ga to 12-10 GA, SMC #1000108, QTY 2
- ∞ Electrical Terminal, Butt Splice, 16-14 GA, SMC# 1002372, QTY 1
- ∞ Wire- 12 GA Yellow SMC# 1001181 QTY 20 FT
- ∞ Wire- 12 GA Red SMC# 1001803 QTY 20 FT
- ∞ Composite materials (resin, putty, gelcoat, etc.)- AS NEEDED

Included Documentation

- ∞ 33C_AFT_BILGE_PUMP_SB, Sheets 1 Through 6
- ∞ 33C Aft Bilge Pump Wiring Schematic

Hull Mounting Block Installation

- 1) Remove any standing bilge water in the aft section, and clean the aft centerline section with acetone (See Sheet #5)
- 2) Bed mounting block in bonding putty, and fillet all corners and edges, in location shown (See Sheet #5).
- 3) Apply two layers of fiberglass and resin to secure mounting block to hull bottom.
- 4) Once resin has set, apply gelcoat to the raw resin, to help blend the block addition into hull and protect the resin.

Thru Hull Installation

- 1) On the starboard hull side, mark a center point in the location shown (Sheet # 6)
- 2) Drill a 1-3/4" hole the hull.
- 3) Apply a bead of urethane caulk to the underside of the flange on the 1-1/8" stainless steel thru hull, and install the thru hull in the 1-3/4' hole.
- 4) Inside the hull, install and tighten nut.
- 5) Clean any excess caulk from the hull side and around the exterior flange on the thru hull.

Pump and Switch Installation

- 1) Once the gelcoat applied to the mounting block is cured, remove the mounting basket from the bilge pump, and fasten basket to the mounting block using the #8 x Phillips pan head screws, in the location shown (See Sheet #3)
- 2) Install the pump body in the basket, with the pump outlet facing outboard on the port side
- 3) Install the float switch to the mounting block, in front of the bilge pump, using the #8 x 1-1/4 stainless screws. (See Sheet #3)
- 4) Install the supplied 1-1/8" ID Bilge-Vac hose, running from the bilge pump out to the installed thru hull on the port hull side. Use care to create a trap in the hose, as shown, to collect any back flow when the pump is shut off. This will help prevent any fumes from entering the bilge through the pump hose. Run the hose along the forward edge of the rudder shelf, going outboard to the port side, using the supplied cable ties to secure the hose to the stringers and rudder shelf.
- 5) At the thru hull, run a small loop prior to attaching the hose to the thru hull. A cable tie will help hold this loop.

Wiring for Pump and Float Switch

NOTE: This pump will be wired directly to the port engine battery, with the float switch controlling whether the pump is on or off. There is no manual override for this pump. A schematic for wiring the pump is included below (Please 33C Aft Bilge Pump Wiring Schematic)

- 1) Connect one of the wires coming from the float switch to the positive wire on the bilge pump, using the supplied 16-14 heat shrink butt connector. The wires on the pump and the float switch can be trimmed prior to connecting the butt connector, for a cleaner installation.

- 2) Run the yellow 12 ga wire from the negative post on the battery back to the bilge pump. Attach the wire to the negative wire on the bilge pump, using a pair of crimp one of the supplied 16-14 ga to 12-10 ga heat shrink butt connectors. Secure the wire to the stringers over the entire wire run, using some of the supplied cable ties and screws. Once the length required to reach the battery from the pump has been established, trim the excess and attach a 12 ga, 3/8 eye crimp connector to this end of the wire, and connect it to the negative battery terminal.
- 3) Run the included 12 ga red wire from the port side battery back to the float switch area, securing the wire along the run with cable ties to the stringers. Attach the red wire to the wire other wire on the float switch, using a 16-14 ga to 10-12 ga butt connector.
- 4) Place the supplied 15 amp fuse in the supplied fuse holder.
- 5) Attach one end lead from the fuse holder to the red wire coming from the float switch, using a 10-12 ga butt connector. Connect the remaining 10-12 ga, 3/8 eye ring terminal to the other lead of the fuse holder.
- 6) Using a heat gun, ensure that all of the butt connectors have been fully shrunk around the wires, and ensure that all connections between wires and terminals are good.
- 7) Connect the ring terminal lead from the fuse holder to the positive terminal on the battery.
- 8) Manually turn the float on the float switch into the up position, to ensure pump operation.

Silverton will provide 4 hours labor for completion of this Service Bulletin