

# SCOUT Projects: *Additional Holding Tank Vent*

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*m/v SCOUT (Great Harbour N37)*

*Ray Henry*

## Description

An additional 1-1/2" vent line to the holding tank, using an existing (plugged) tank fitting.

## Parts Ordered

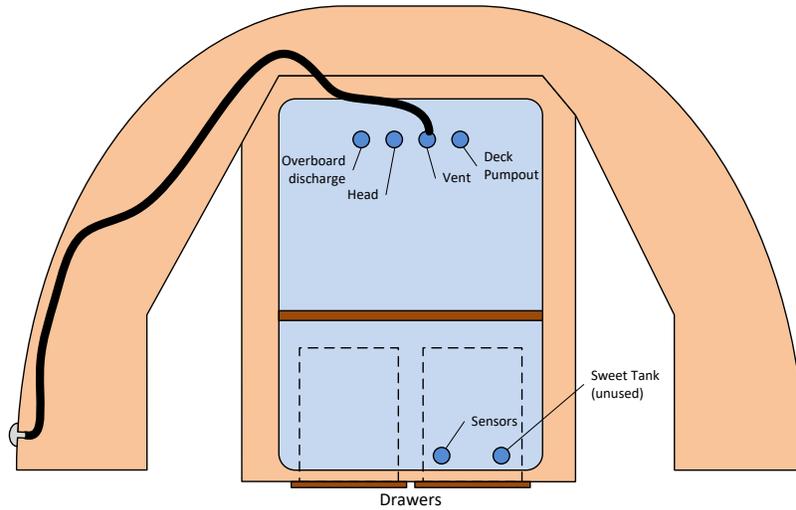
1. Big Box Store - 1-1/2" PVC pipe and fittings
2. Marine Sanitation and Supply (<https://www.marinesan.com/>) - #600342806T Tight Elbow, 1.5", #307341513 Custom Hose Adapter, 1.5"
3. West Marine (price match) – GROCO 1 1/2" Thru-Hull Fitting with Nut
4. Various 1-1/2" hose clamps, thru-hull sealant

## Assembly

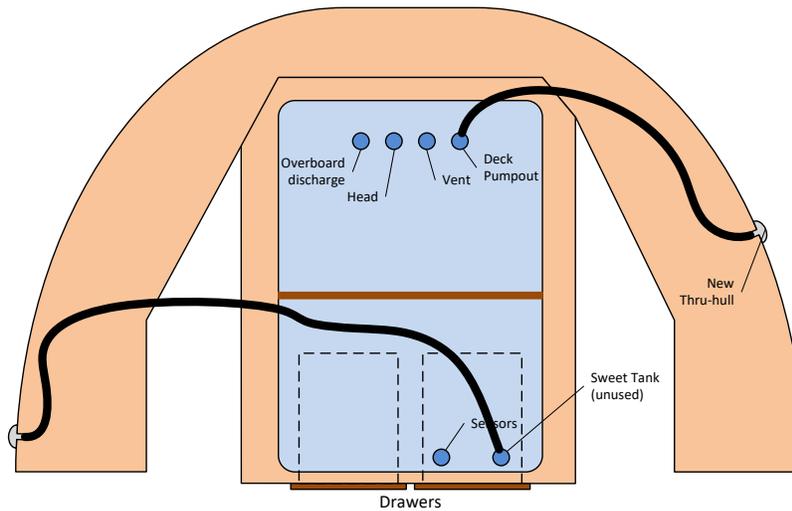
There are some ports on the holding tank underneath the aft end of the bed. Removing the drawers gave pretty good access. I noticed that the since-removed Sweet Tank fitting had a dummy plug in it, I could probably get a skinny elbow fitting to go into the 1-1/2" threaded insert and still clear the drawer bottom. This would eliminate having to cut a new opening in the top of the tank for the vent.



The plan was to re-route the existing forward tank vent fitting to a newly cut in starboard bow thru-hull, and then to connect this aft-end sweet tank fitting to the existing port site thru-hull. Here is what the original state of the vents was:



And the plan was to change it to this:



I didn't want to use the \$7/ft hose for the new connections because a)it is expensive, and b)they invariably get low spots in them and collect "things". Where I could, I used the PVC pipe with gentle slopes and joined it to the Trident hose at the end sections for flexibility.

Here is what the area under the drawers looks like. The “tight elbow” was a life saver and prevented having to change the drawer arrangement. I used hose for flexibility, then transitioned to the PVC.



The PVC continued through the side wall of the bed riser. Across the floor space (more on that later). And then into the portside closet area. There is a very gradual slope across the floor, down into the drawer cavity under the bed.



Once again, the “last mile” was a connection with flexible hose to prevent any problems with the rigidly-mounted PVC pipe. This is the existing port side vent thru-hull in the closet on the port side.



On the starboard side, a new vent was cut in behind the tall drawer stack. I re-used the hose from the portside vent run (it was only 3 years old) to go from the forward tank fitting to this new thru-hull.

## Completion

Well, it's not quite complete – I still have to cover up the PVC that crosses the sole with some riser steps that I had planned on making anyway. I will also need to cut the cabinet doors off shorter to accommodate the step. Starboard side version of a step shown below (Photo courtesy of *Tanuki*).

