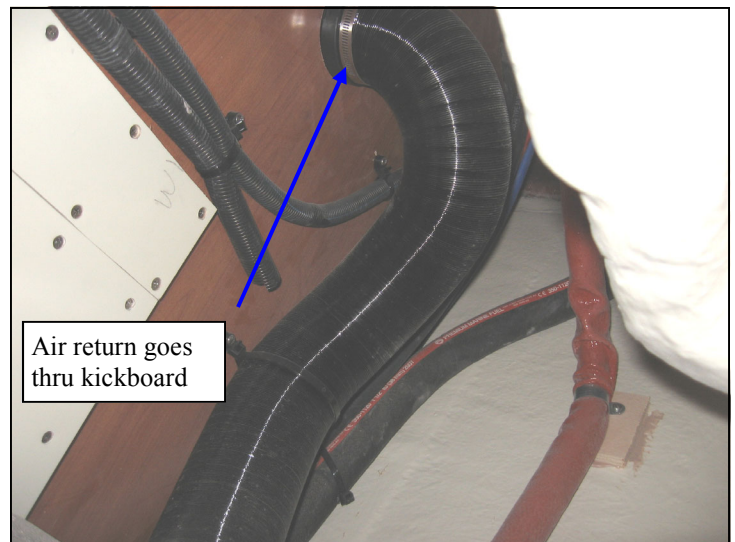
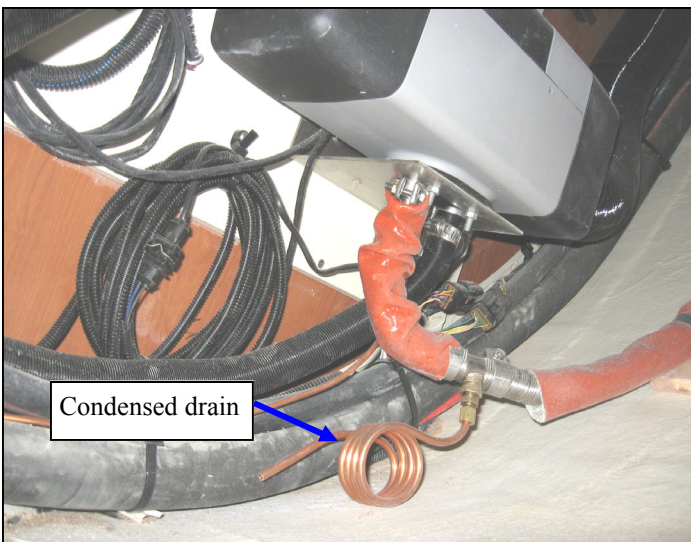


38 Webasto Diesel Heater Heater Unit (03-14-08)

1. The diesel heater for this boat should be installed on starboard side back side of kickboard bulkhead. The heater unit should be installed with air inlet facing outboard and air outlet facing inboard.
2. For heater mounting, use the pre-drilled stainless steel mounting bracket, which is provided with the kit. Install the stainless bracket on kickboard then secure the bracket using appropriate fasteners. There are six pre-drilled holes on the mounting bracket. Top 2 mounting holes of this bracket should be thru bolting. Make certain that the bracket is mounted securely to enable the heater to withstand "sea shock." In some cases it may be necessary to fiberglass a wooden pad in place at the mounting location to avoid drilling into or through the hull of the vessel. It is also preferable to position the bracket so that the heater exhaust outlet is vertical-down. This will provide optimum heater operation and allow for vessel's heel. Place the heater on the mounting bracket. Ensure the rubber gasket on the base of the heater is in place. Secure the heater using the provided hardware.



38 Webasto Diesel Heater

Fuel Lines

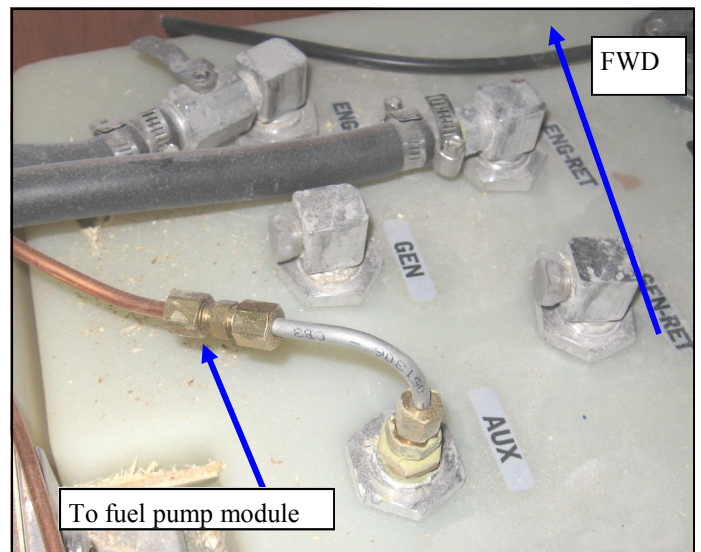
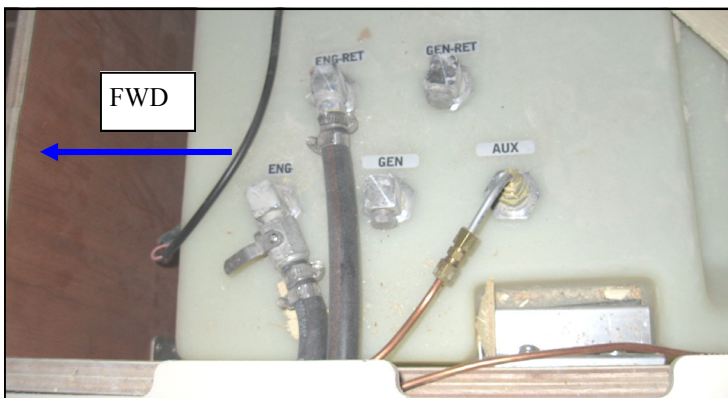
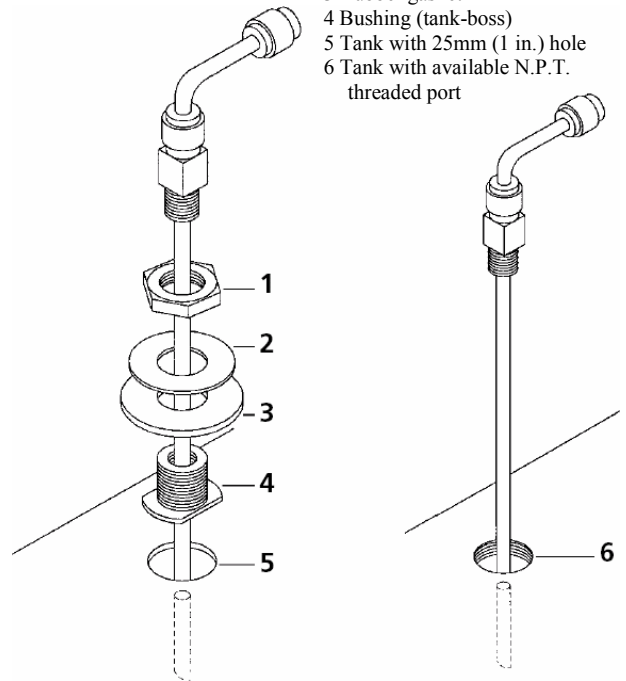
Fuel Standpipe Installation

The fuel standpipe should be kept 25mm (1 in.) off the bottom of the fuel tank to prevent drawing sediment and water into the heater's fuel system. The piping starts from fuel tank, fuel pump module; fuel pump module to heater unit on back face of kickboard.

Fuel Standpipe: (see figure on the right)

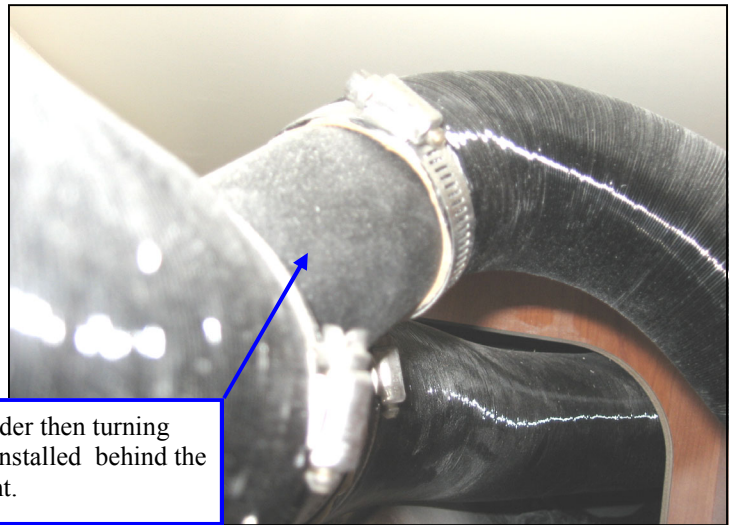
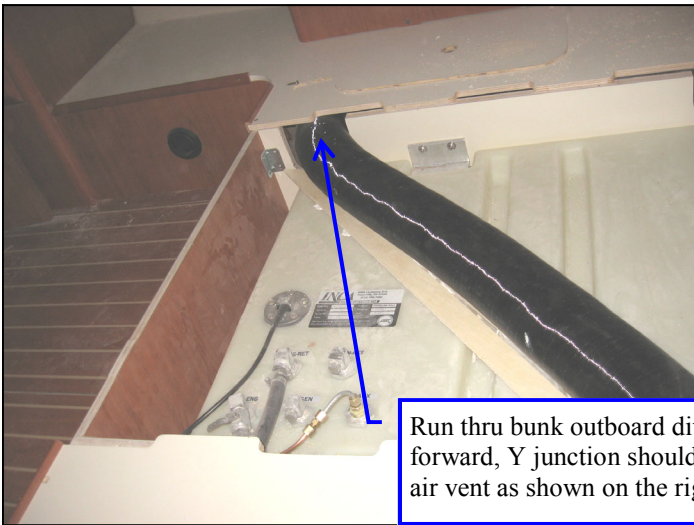
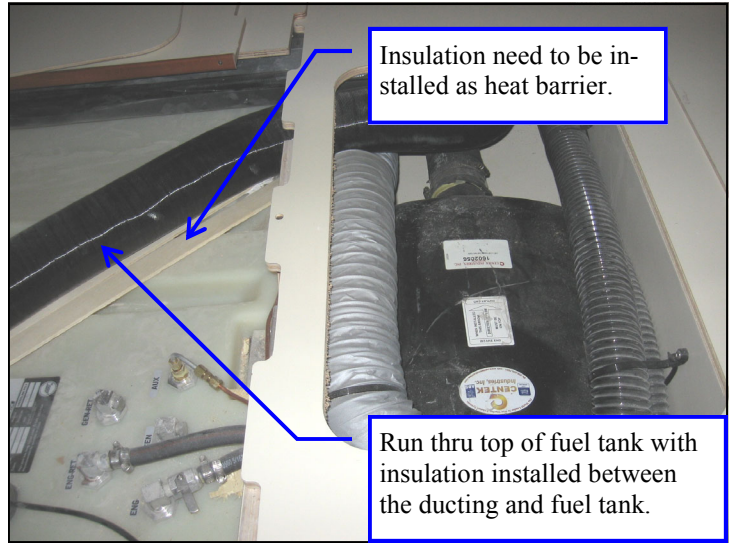
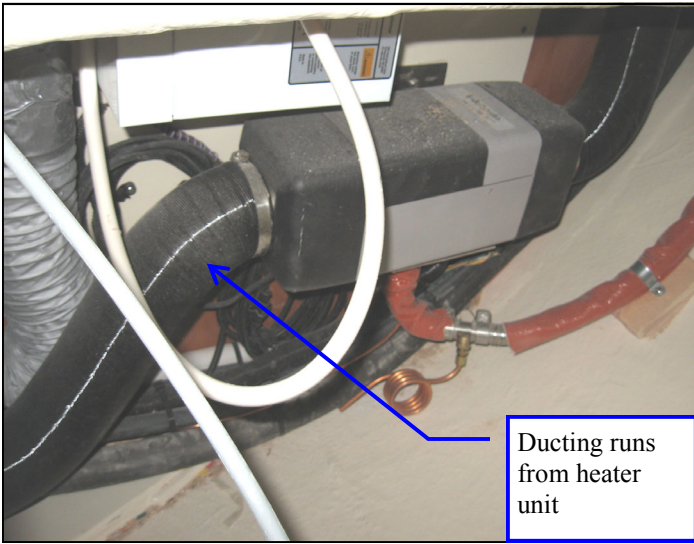
1. Cut fuel standpipe to length, approx. 25 mm (1 in.) off bottom of fuel tank. Angle the cut to prevent clogging.
2. Remove burrs from cut end. Apply thread sealant to threaded fittings to prevent fuel leaks.
3. Install fuel standpipe using one of the following methods:
 - use 1/4 or 1/2 spare port on top of fuel tank (if available) and install standpipe OR
 - drill or punch a 25 mm (1 in.) hole in a clear area on top of the fuel tank or fuel sender plate. (Before drilling hole, apply grease to drill bit to catch metal chips)
 - assemble tank-boss and fuel standpipe to form single unit.
 - install standpipe by angling unit in so that one ear of the bushing hooks under the edge of the hole.
 - repeat with the other ear in the same fashion.
4. Center in hole and clamp in place by tightening nut down until gasket begins to squeeze out slightly.

- 1 Nut
- 2 Washer
- 3 Rubber gasket
- 4 Bushing (tank-boss)
- 5 Tank with 25mm (1 in.) hole
- 6 Tank with available N.P.T. threaded port



Fuel pump module box locates on back side of bunk face.

38 Webasto Diesel Heater Aft Cabin Ducting



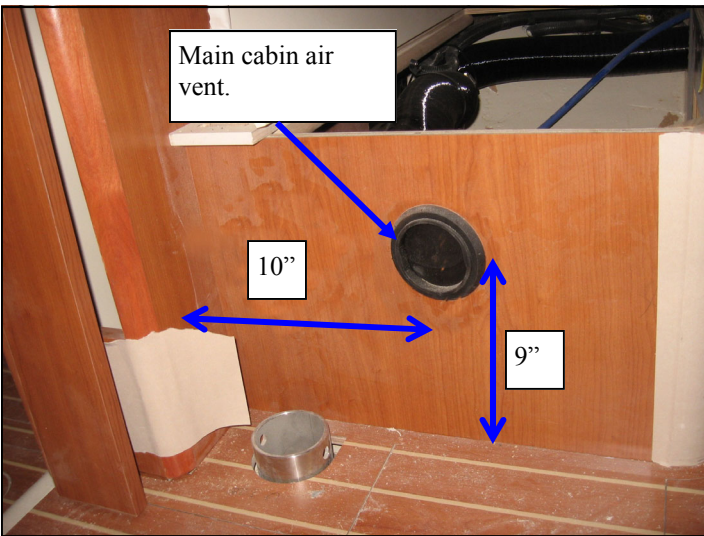
38 Webasto Diesel Heater Main Cabin Ducting



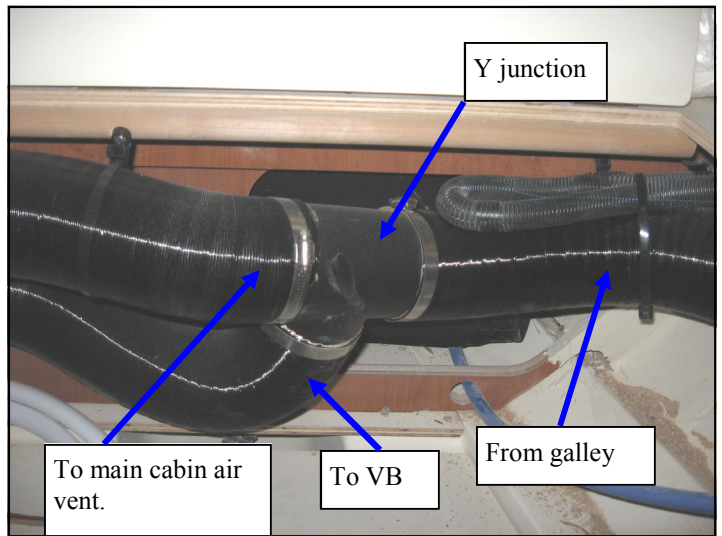
ø3.54" ducting comes out from galley area thru divider forward to fwd bunk



The picture shows ø3.54" ducting layout locates in fwd bunk which distributed for main cabin and V berth cabin.

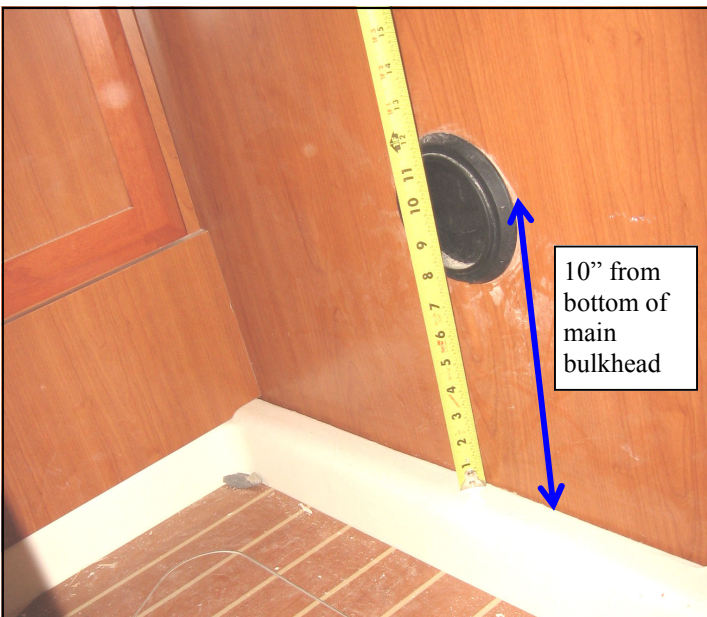


The picture shows the location of main cabin air vent. Do not install the air vent right next to compression post

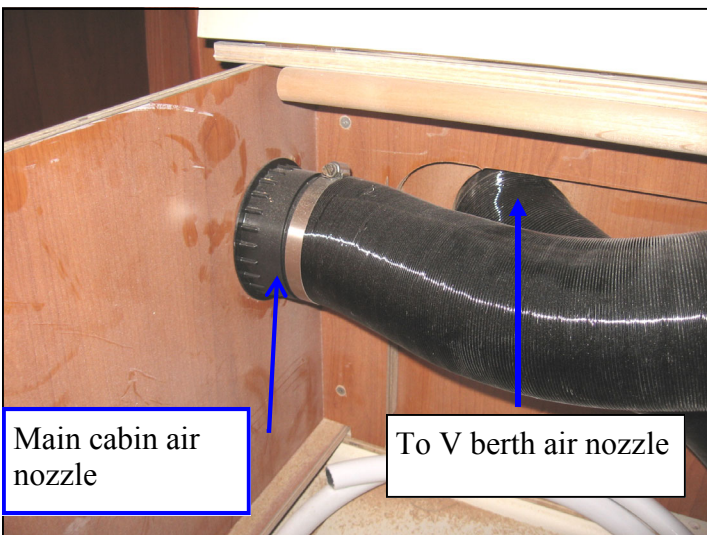


The picture shows the air duct distributed in main cabin where the Y junction (3.54"x 3.54" x 2.36") ducting is for main cabin air vent, and V berth air vent.

38 Webasto Diesel Heater V Berth Air Vent

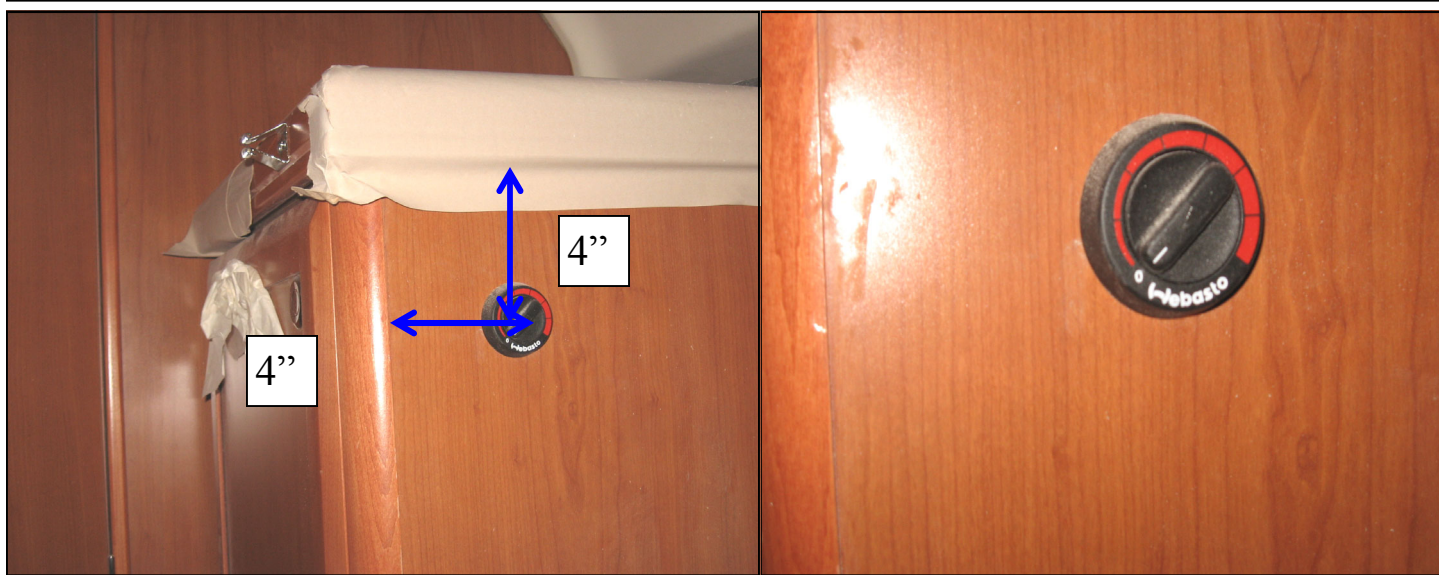


V berth air vent locates on fwd face lower end of main bulkhead, the heater air vent's mounting location is shown in the pictures as indicated.

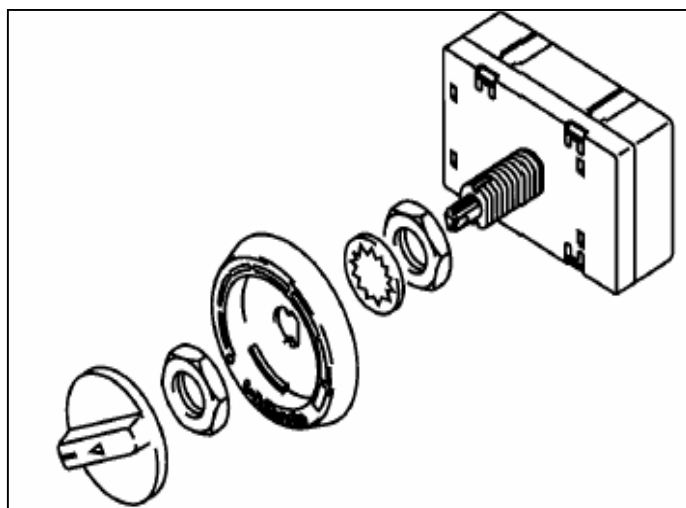
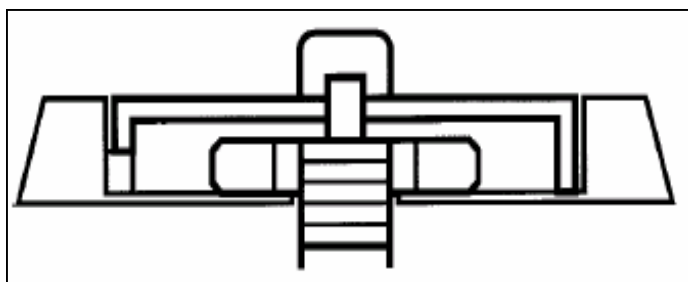


The picture shows the air duct distributed in main cabin fwd bunk inboard side as 3.54" ducting is for main cabin air vent, and the ducting for V berth air outlet goes thru main bulkhead cutout with the air vent installed on the VB side on main bulkhead.

38 Webasto Diesel Heater Thermostat



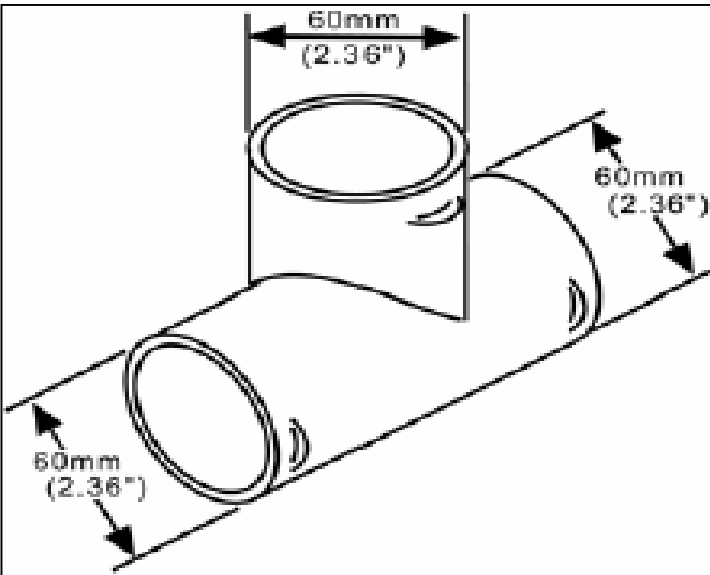
The thermostat control knob locates on NAV station electrical panel, the exact location as arrow indicated in the figures. Make sure the thermostat switch installed properly.



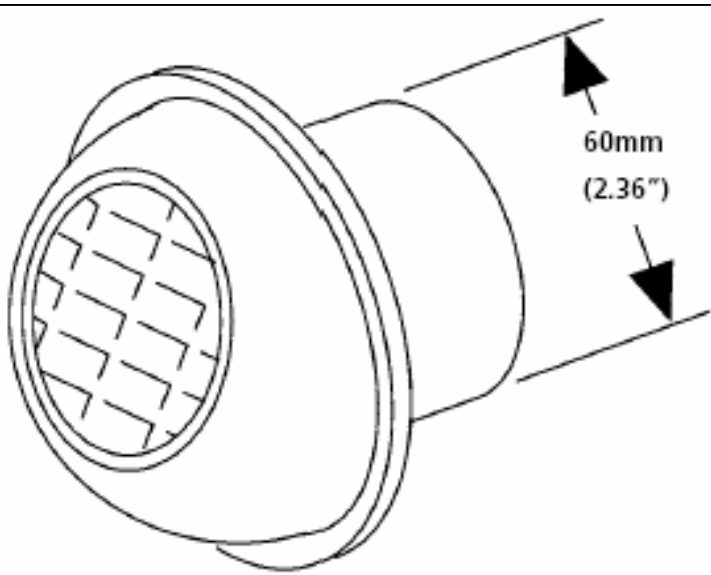
Control Element (Rheostat) Installation

1. The thermostat locates on aft cabin hanging locker aft face upper inboard corner. Install control element in a appropriate location as figures shown above. allowing enough slack in the harness so that it is not stretched taut. The shaft will require a 12.5 mm (1/2 in.) hole for mounting. See the figures on the right for installation reference. Plug harness connector into receptacle on rear of control element.
2. Thread shaft of the temperature control knob. Keep the end of this shaft flush with nut when you secure the control unit to aft galley bulkhead. So the knob can be installed onto shaft properly.

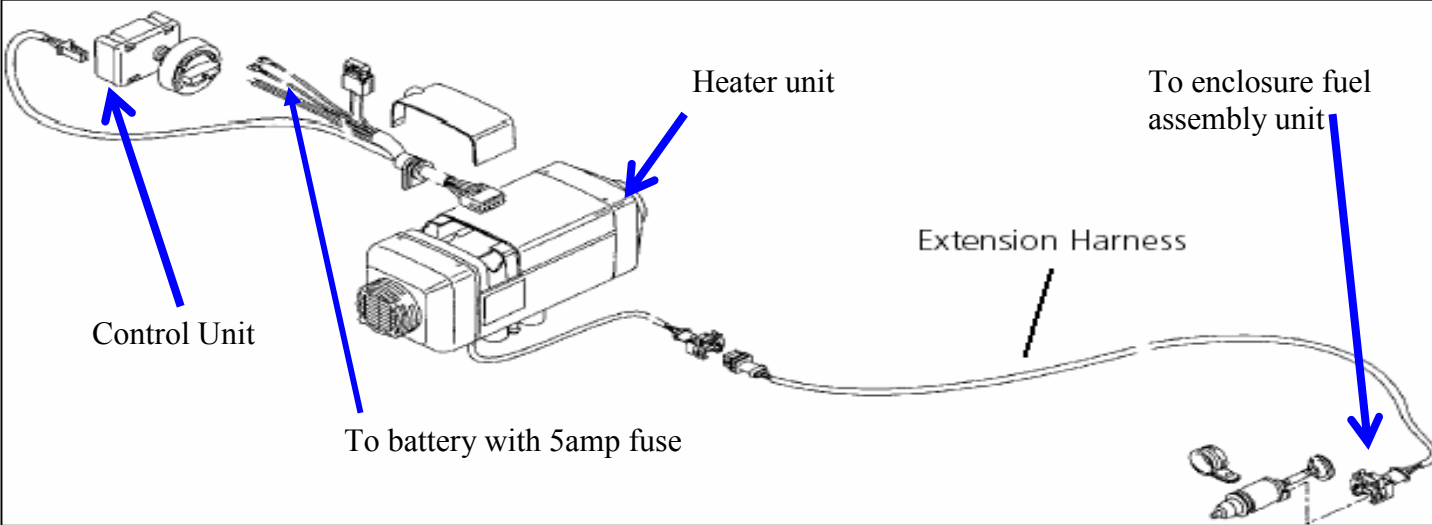
Webasto Diesel Heater Information



Dimension for T junction that goes inside the boat



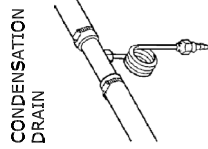
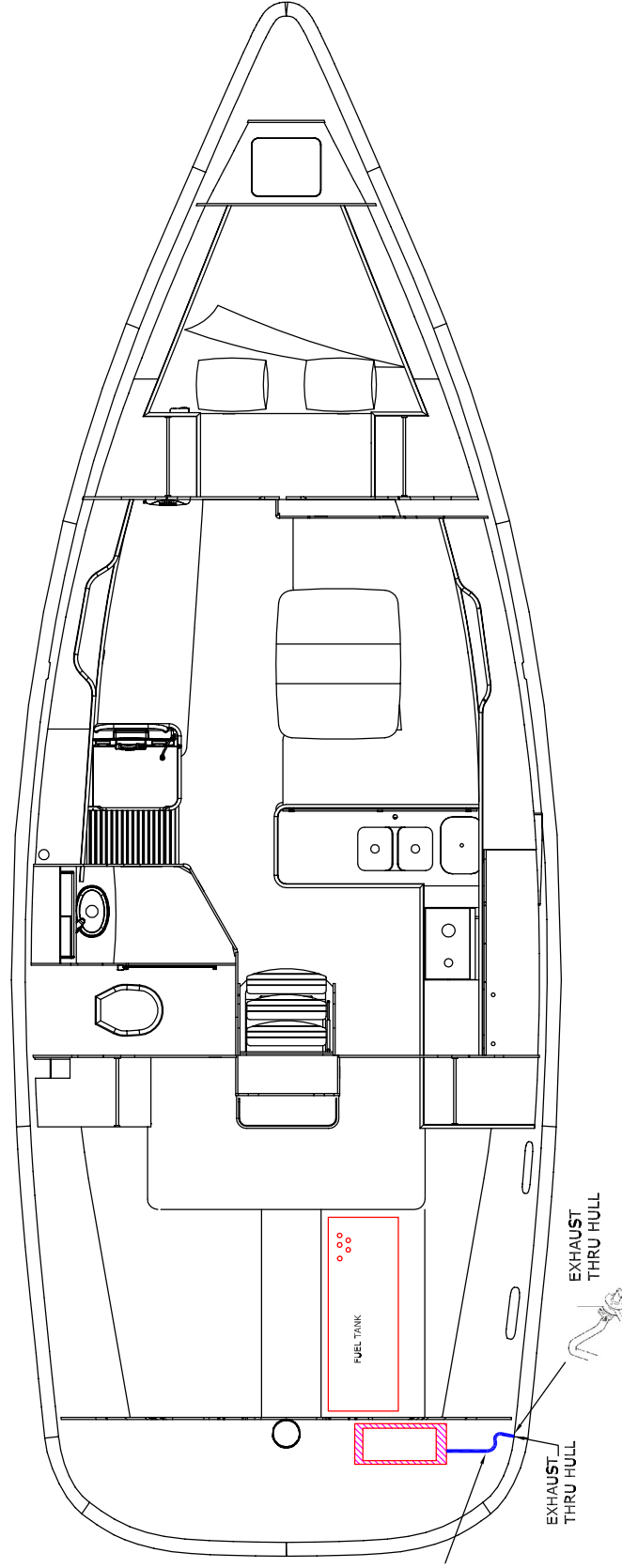
Dimension for outlet air nozzle that goes in the boat



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A B C D E F G H I J K L

38 WEBASTO DIESEL HEATER EXHAUST SYSTEM LAYOUT 03-11-08



CONDENSATION DRAIN

EXHAUST THRU HULL

EXHAUST THRU HULL

FUEL TANK

REVISIONS			
ZONE	REV	DESCRIPTION	DATE

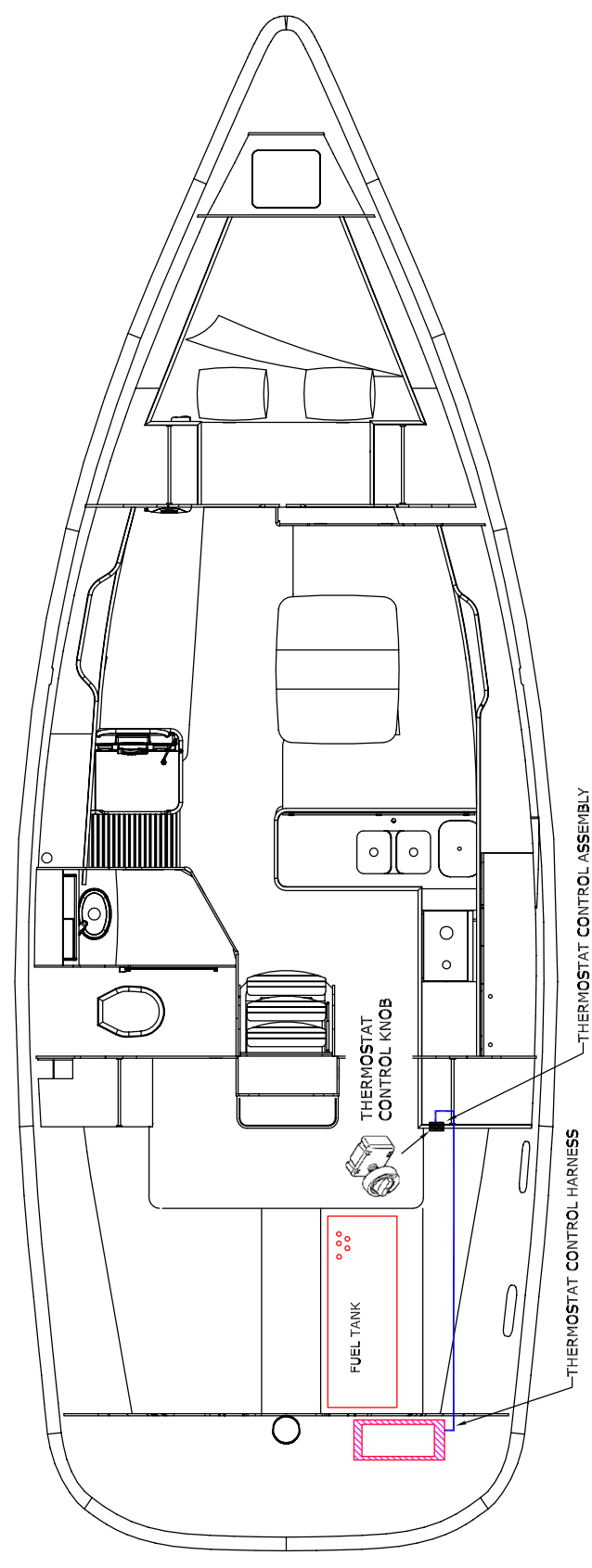
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ATTACH TO Dwg: _____	DATE: _____
SCALE: N/A (FORM IN **)	DWG NO: _____
	REV: _____
	SHEET: 3 OF 4

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A B C D E F G H I J K L

38 WEBASTO DIESEL HEATER TEMPERATURE CONTROL 03-11-08

REVISIONS			
ZONE	REV	DESCRIPTION	DATE



THERMOSTAT CONTROL ASSEMBLY

THERMOSTAT CONTROL HARNESS

THERMOSTAT CONTROL KNOB

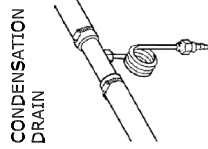
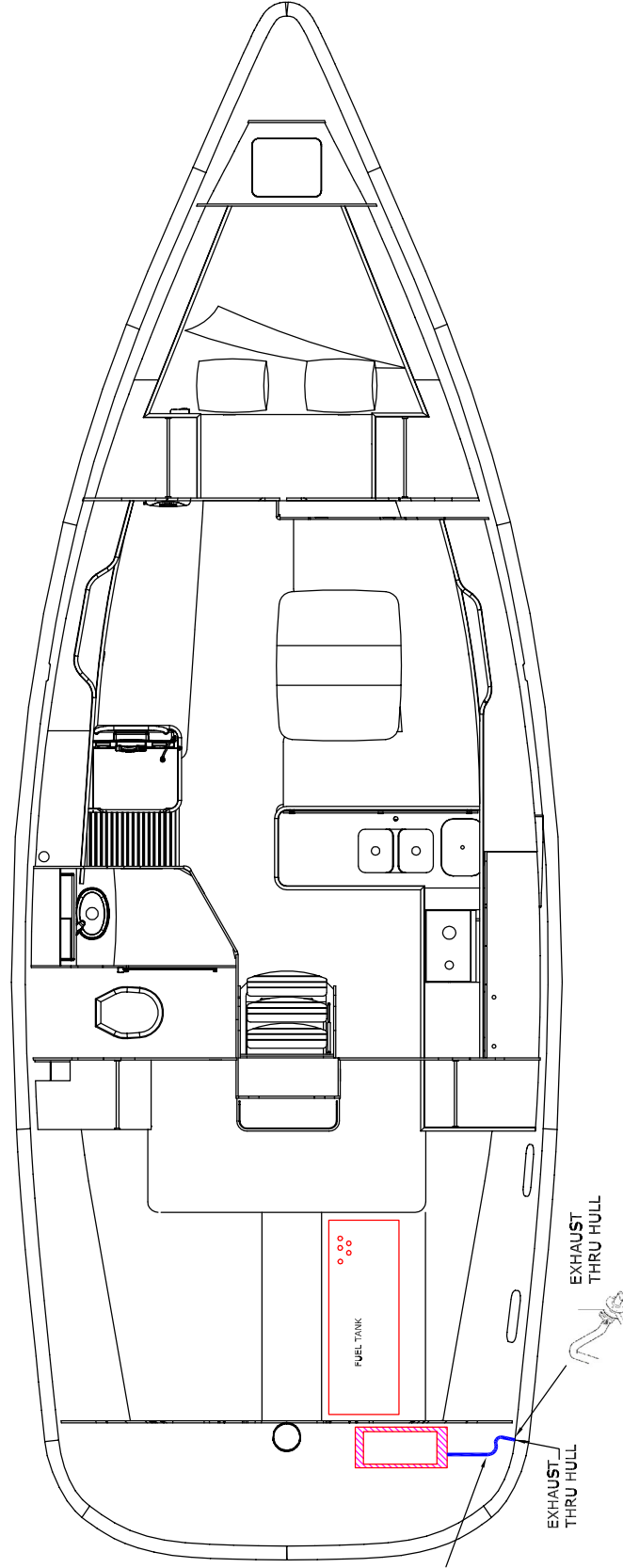
FUEL TANK

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ATTACH TO COG: ---	SIZE: ---
	DATE: ---
	**
	DWG NO. ---
	SCALE: N/A DRAWING P# **
	REV: ---
	SHEET 4 OF 4

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A B C D E F G H I J K L

38 WEBASTO DIESEL HEATER EXHAUST SYSTEM LAYOUT 03-11-08



REVISIONS			
ZONE	REV	DESCRIPTION	DATE

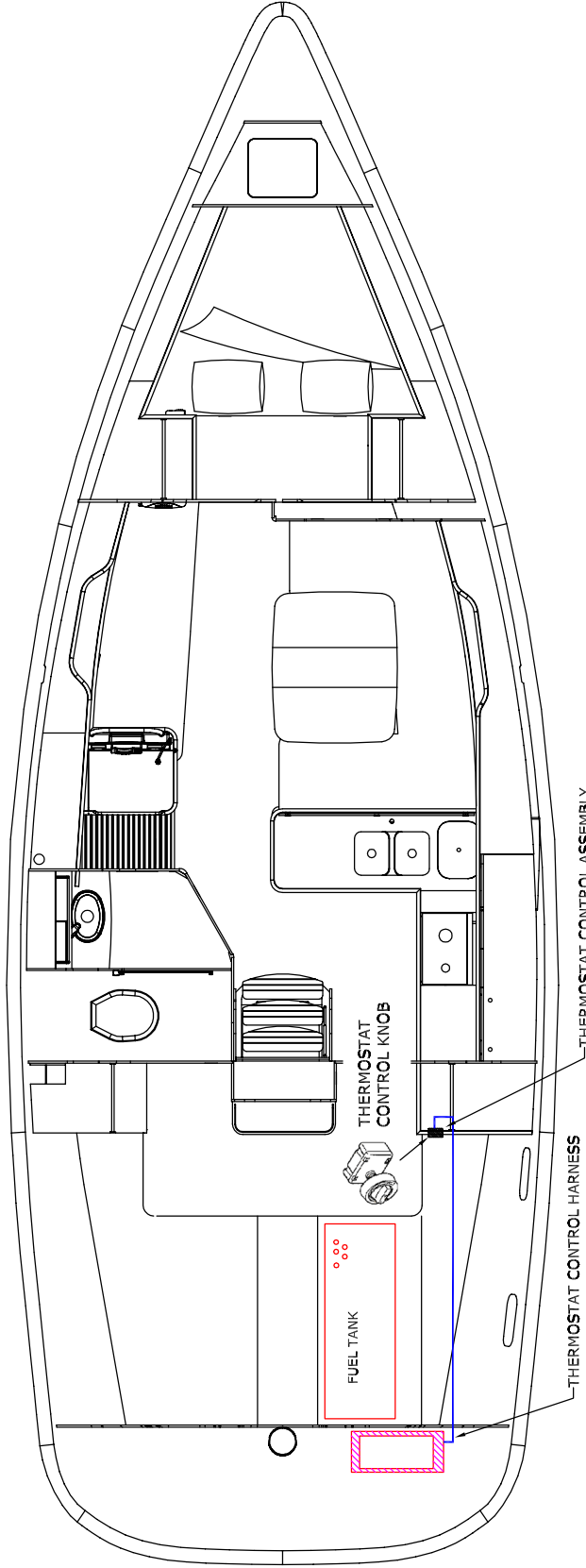
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	REV: I
	SHEET: 3 OF 4

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A B C D E F G H I J K L

38 WEBASTO DIESEL HEATER TEMPERATURE CONTROL 03-11-08

REVISIONS			
ZONE	REV	DESCRIPTION	DATE



FUEL TANK

THERMOSTAT CONTROL KNOB

THERMOSTAT CONTROL HARNESS

THERMOSTAT CONTROL ASSEMBLY

STAGE: **	TITLE: _____
ATTACH TO DWG: _____	DATE: _____
SCALE: N/A	DWG NO. _____
	REV: _____
	SHEET 4 OF 4