

# SERVICE BULLETIN

DATE: 6 May 1982 BULLETIN NUMBER: 114  
MODEL: All Marine Propulsion Engines  
SUBJECT: Domestic Water Heater Installation Using Westerbeke FLOWCONTROLLER

Principle: There are two 7/8" hose connections at the end of the manifold which provide a parallel flow of engine cooling water to and from the heater. These connections are part of the FLOWCONTROLLER which assures a flow of hot water through the heater at all times and yet precludes excessive restriction of engine cooling water flow caused by the heater - all simply and automatically.

Installation: Remove the return bend which normally connects the 7/8" hose spuds on engines as shipped from the factory. Connect these spuds to the heater with 7/8" ID wire inserted hose. The spud marked "out" indicates the flow from the engine and the spud marked "in" indicates the flow returning to the engine.

Hoses should rise continuously from their low point at the heater and to the engine so that trapped air will rise naturally from the heater to the engine. If trapped air can rise to the heater, then an air bleed petcock must be installed at the higher fitting at the heater for bleeding the air while filling the system. Avoid loops in hose runs which will trap air.

If any portion of the engine cooling water circuit to or from the heater rises above the engine's own pressure cap, then the pressurized remote expansion tank must be installed in the circuit to be the highest point. The tank kit Part Number is 24177. Install the remote expansion tank in a convenient location such as a sail locker for ease of checking fresh water coolant level.

The cap on the engine mounted expansion tank/manifold should not be opened once the system is installed and filled.

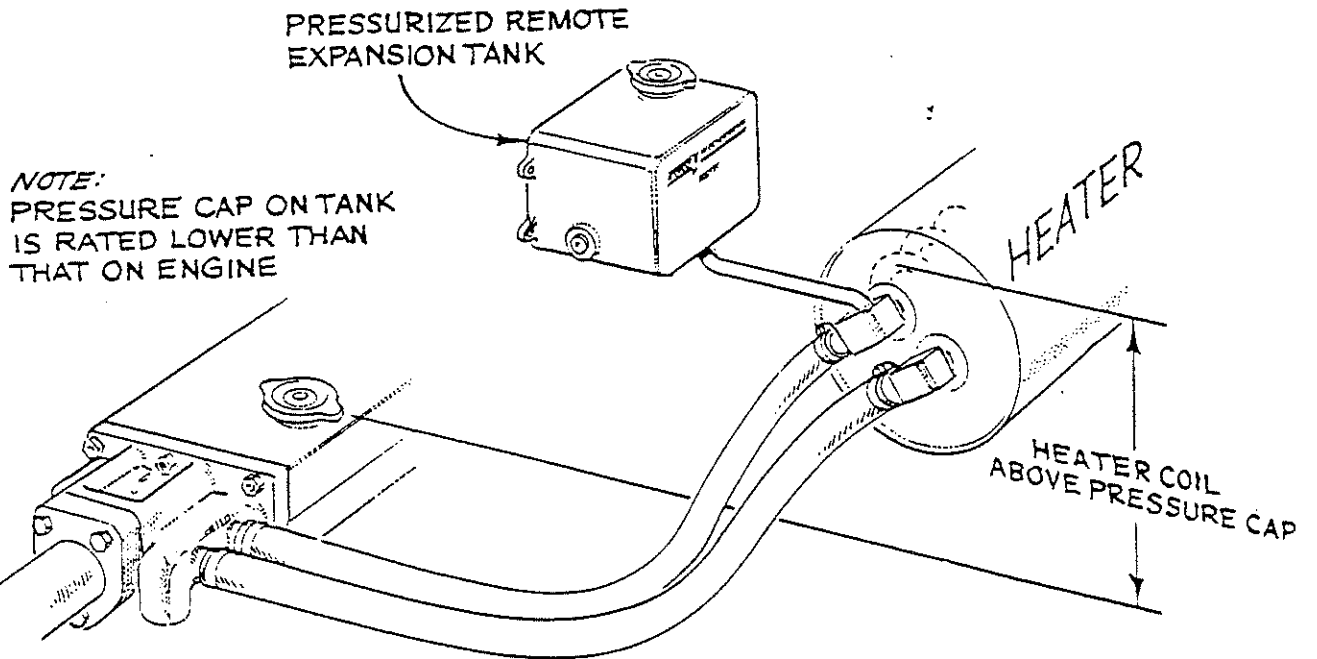
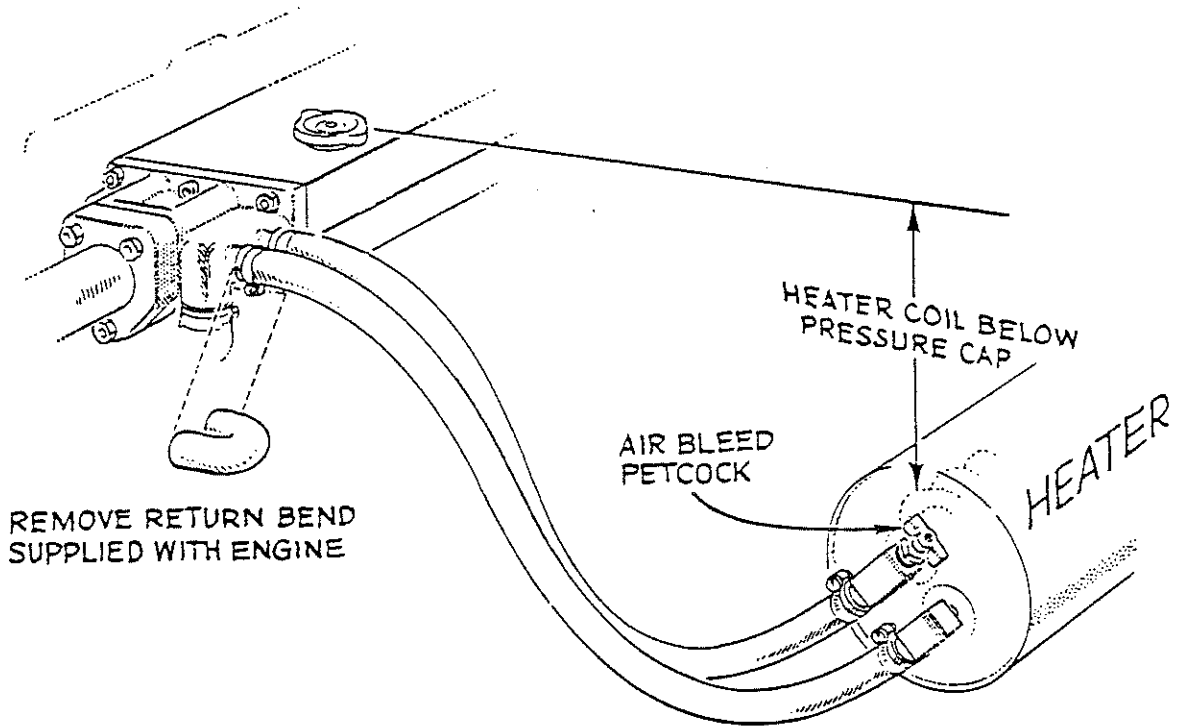
The hose connection from the heater to the remote expansion tank should be routed and supported so as to rise continuously from the heater to the tank enabling any air in the system to rise.

FLOWCONTROLLER kits are available for retro-fit to late 1980, 1981 and 1982 Westerbeke marine engines which employ the "two-pass" exhaust manifold. The kit numbers are:

Kit #32276 for engines whose exhaust manifold is on the left side of cylinder head (W21, RD60, W27, RD80, W33).

Kit #32274 for W13 and Kit #32275 for W52 and W58 engines whose exhaust manifold is on the right side of the cylinder head.

# HEATER BELOW ENGINE



# HEATER ABOVE ENGINE