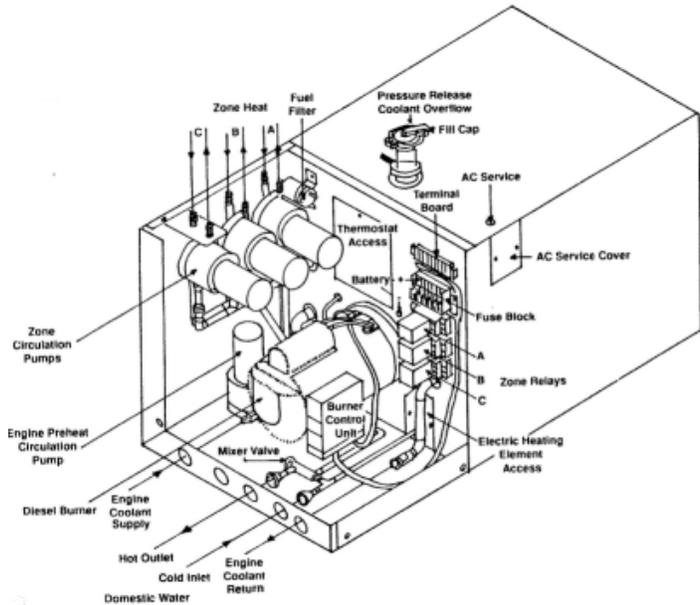
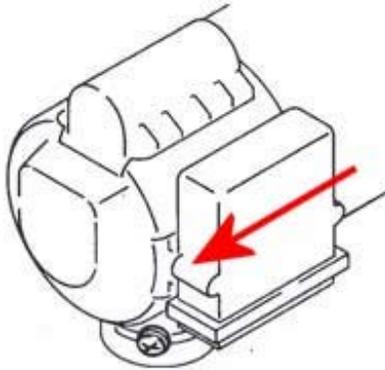


# How To Swap out Webasto Burner. Aqua-Hot

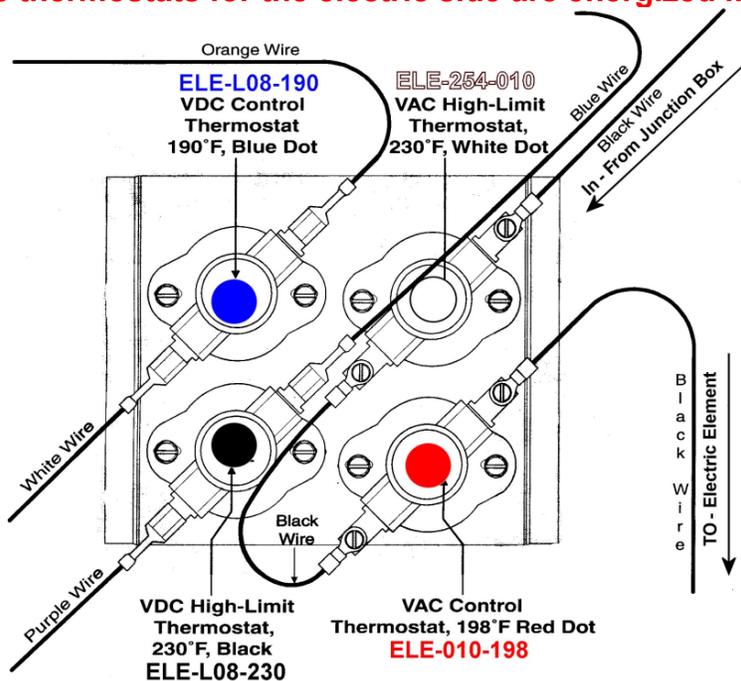
Make sure Aqua-Hot is turned off. Unplug electrical connections from Webasto silver control box.

Slide control box as shown and remove from Webasto unit. Handle this unit very carefully as it is very expensive.



Disconnect thermostat wires that are under the "Thermostat Access" cover.

**CAUTION: Make sure that Aqua-Hot electrical is turned off at the circuit breaker. The thermostats for the electric side are energized if the power is on.**



Loosen “J” bolts that hold Webasto unit in place. There are two bolts. One is shown in photo and one 180 degrees opposed to bolt shown. No need to remove bolts. Just loosen enough to rotate them out of the way. The bottom one will drop out of the way. The top one has to be lifted up (against the hose) so that the Webasto unit can be pulled way. Use 10mm deep socket on about 10 inch extension.



*This photo is a Hydro-Hot unit. Aqua-Hots do not have the plastic plug shown in photo.*

Slightly lift up on the Webasto unit and pull gently away from the housing. Watch out, for wiring it can get tangled as you remove. Don't force it. When the unit is loose, rotate it upside down so you can remove the fuel hoses.



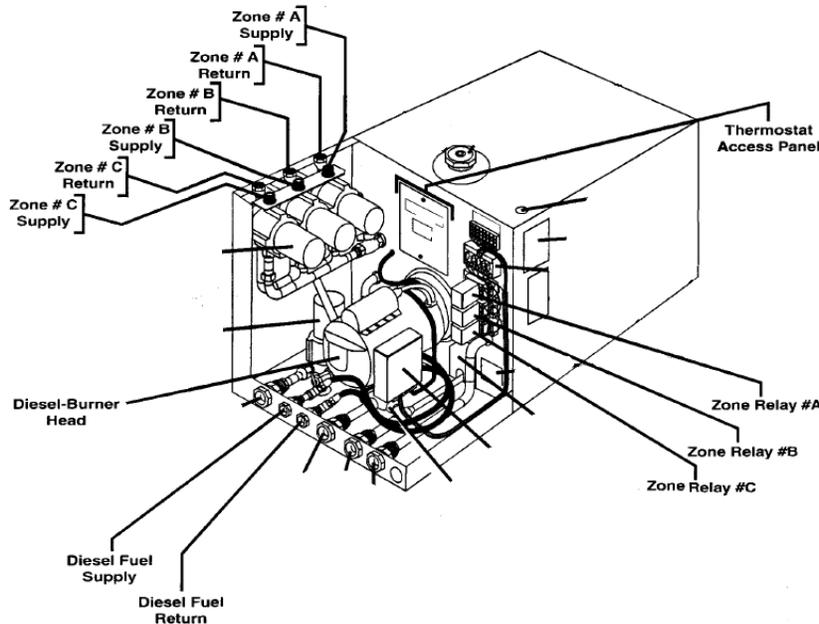
Use 12 mm open-end wrench on hose side and 14mm wrench on nut shown in photo left. The fuel hoses have been removed in this photo. Normally there will only be a couple of tablespoons of diesel fuel that will leak out when you remove the hoses. Have a towel handy. If fuel continues to drip, then either tie the hoses upright, or clamp them off with fuel pinch off pliers.

Note that the fuel supply (S) line goes on the left side and the fuel return (R) is on the right side.

The Webasto unit should now be free. Handle it carefully and do not touch the nozzle or bend the electrodes.

To reinstall the unit reverse the removal directions. Fuel lines, install burner, reconnect thermostat wires and install silver box.

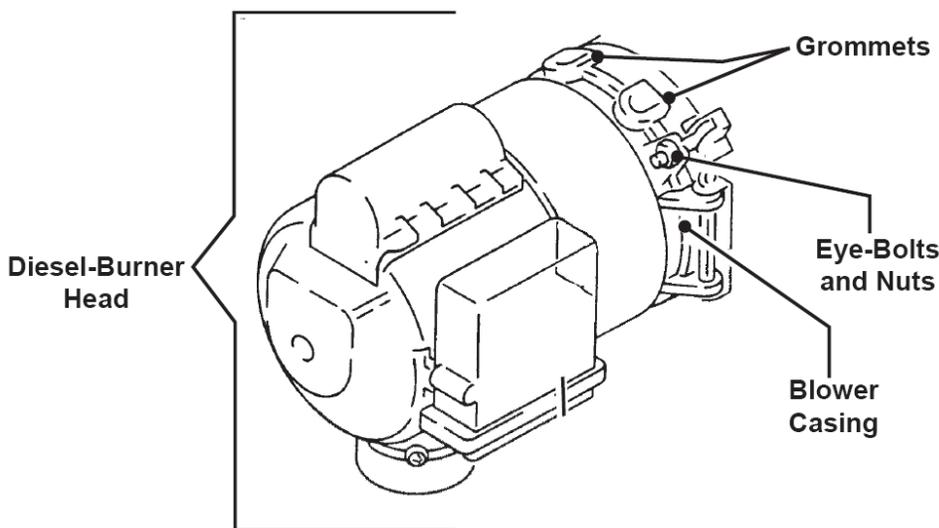
When you install the fuel lines make sure that you have connected the fuel supply and return lines in the correct places. Refer to photo above for burner connections and the one left to identify the lines.



If you connect the fuel lines backward, you will damage the fuel pump.

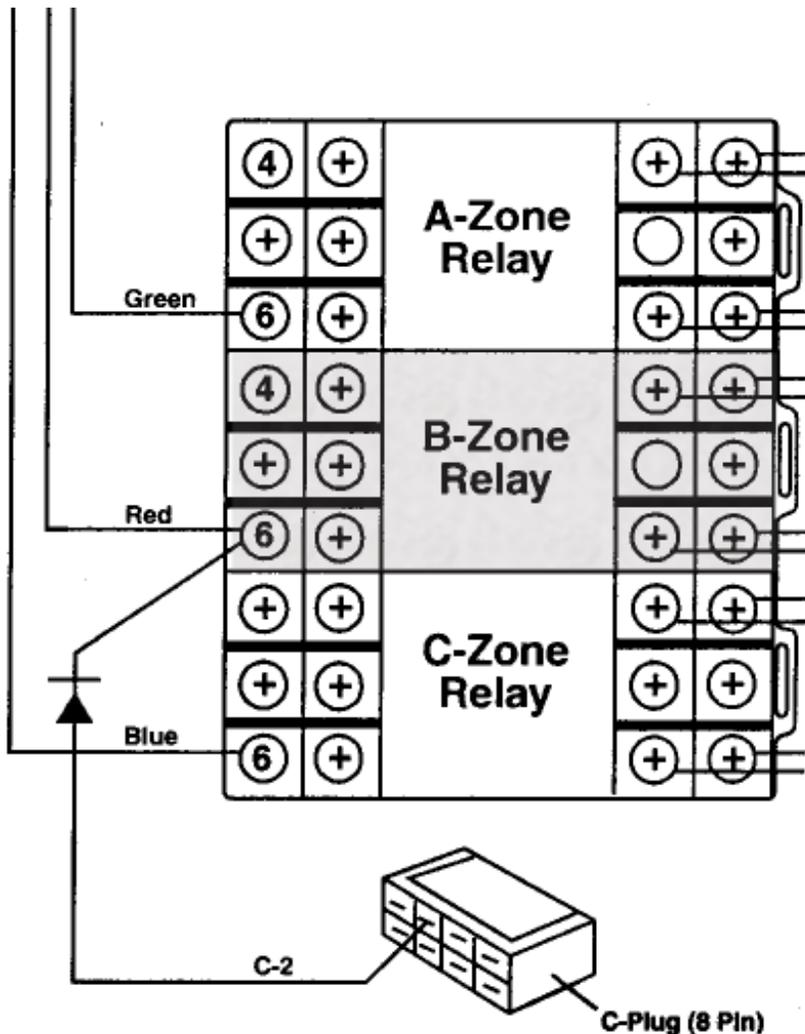
When you are ready to reinstall the Webasto unit in it housing pick up the unit, rotate it into position making very sure that

there are no wires or hoses in the way. Make sure you do not bump or bend the electrodes. Lift up the upper "J" bolt out of the way and carefully slide the unit into its proper position. I usually try to line up the ears on the blower casing between the ears on the other side.



Check to make sure that the grommets are in the proper position, there are no wires pinched and the "J" bolts fit. If the "J" bolts will not go into proper position, then the burner is not in the correct position. DO NOT FORCE IT! Tighten the nuts on the "J" bolts evenly, and then make them snug. The bolts should be tightened to 30-40 inch pounds of torque (which is not much). If you do not have torque wrench, tighten the bolts snug, NOT TIGHT or you will break the mounting ears off.

On the Aqua-Hot units without electronic control board there is one more wire that needs to be connected. You will need to connect the diode wire that comes off the "C" plug to the #6 terminal of the "B" zone relay as shown in drawing below.



Plug back in thermostat wires, install silver box, check to see verify that everything is reassembled, then turn on unit and test for proper operation.

Copyright – Roger Berke 11/2009.

*These directions will help you remove the Webasto unit from your Aqua-Hot. It has been written by Roger Berke, a factory-certified Aqua-Hot technician.*

*This is information on how to do advanced repairs. Since I have no idea of your capabilities, I provide this information without being able to judge whether or not you should actually try this repair. Only you can judge if this is a repair that you should attempt. If you are not comfortable with this repair you should seek out someone to do it for you. Proceed at your own risk.*

*Roger Berke makes no express or implied warranty or guarantee in connection with the information contained, including the accuracy, correctness, value, sufficiency, or completeness of the data, methods and other information contained in and provided through these directions.*

*Roger Berke makes no express or implied warranty of merchantability or fitness for a particular purpose with regard to the service.*

*Roger Berke shall have no liability to any user of the service or to any third party for any loss, expense, or damage, including consequential, incidental, special or punitive damages, including lost profits or lost revenue, caused directly or indirectly by any error or omission, or arising out of, or in connection with, the information contained in or provided through these directions. In no event will Roger Berke be liable.*

N:\Hydronic-RV-Heating-Yahoo\How To Swap out Webasto Burner - Aqua-Hot.doc