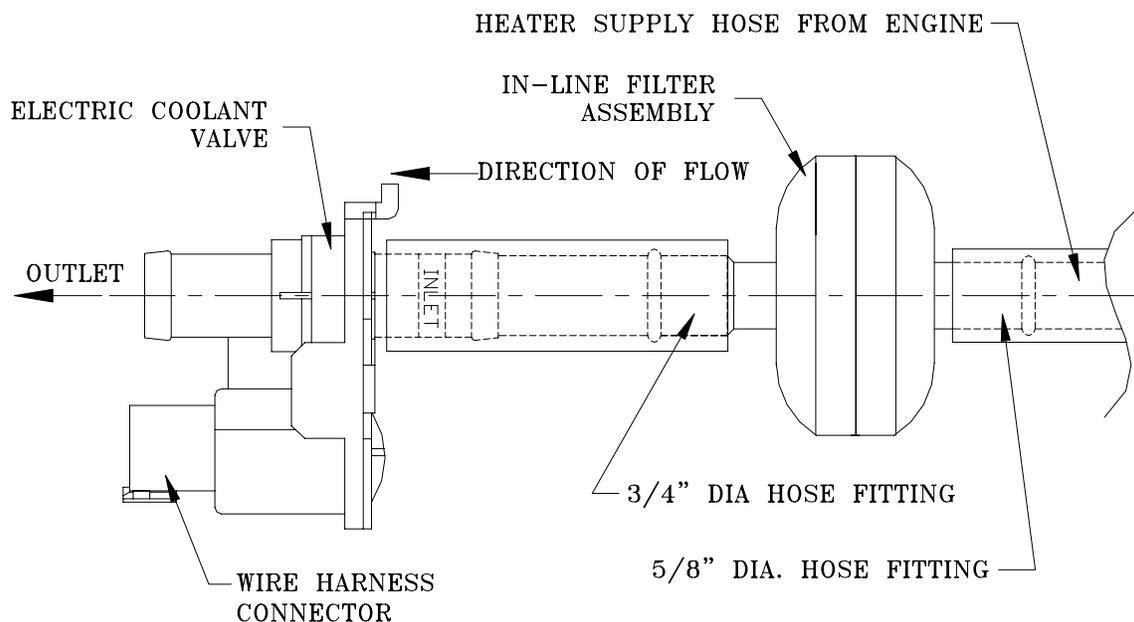


**COOLANT IN-LINE FILTER KIT**  
**INSTALLATION AND SERVICING INSTRUCTIONS**

**1. INSTALLATION:**

Determine which hose attached to the valve is the supply hose from the engine. The supply hose is connected to the valve on the opposite side of the valve from the wire harness connector (see illustration below).



CLAMPS NOT SHOWN ON COMPONENTS FOR CLARITY

Place a clamping device on the inlet side of the reducer fitting that connects the 5/8" supply hose to the 3/4" hose on the inlet side of the valve (clamp on 5/8" hose). Place a second clamping device between the coolant valve and base unit (clamp 3/4" hose on outlet side of valve). Remove the reducer fitting, capturing the coolant in a pan. Remove the short section of 3/4" hose attached to the inlet side of the valve.

**CAUTION:** The engine should be cold and the vehicle turned off before attempting to remove the reducer fitting. Opening coolant lines on systems that are hot can result in burns and/or serious injury due to extremely hot coolant escaping under pressure.

Install the 4" section of 3/4" hose (supplied) on the inlet side of the valve. The In-Line Filter Assembly is supplied with a 5/8" hose fitting on the inlet side of the assembly and a 3/4" hose fitting on the outlet side. Place two (2) clamps over the new section of 3/4" hose and insert the In-Line Filter Assembly into the coolant line with the 3/4" fitting into the 3/4" hose (the large fitting on the filter should be closest to the valve) as shown above. Place one (1) clamp over the end of the 5/8" supply line hose, then connect it to the 5/8" fitting on the filter assembly. Tighten the clamps on the valve and the In-Line Filter Assembly (clamps are not shown in the drawing).

The filter assembly and coolant valve should be supported in the heater compartment and not allowed to "float" on the coolant lines. Tie-wraps or strap type of clamps can be placed around the body of the filter assembly and attached to the fire wall to support the filter. The coolant valve has mounting holes in it that allow it to be bolted to a bracket or clamped in place.

**NOTE: THE VALVE AND FILTER ASSEMBLY MUST BE INSTALLED IN A HORIZONTAL PLANE AS SHOWN IN THE DRAWING.**

## 2. FILTER SERVICING:

**CAUTION: The engine should be cold and the vehicle turned off before attempting to remove and service the filter assembly. Opening coolant lines on systems that are hot can result in burns and/or serious injury due to extremely hot coolant escaping under pressure.**

Should the ability of your HVAC system to produce heat deteriorate, it may be necessary to check the In-line Filter for debris. This is done by placing a clamping device on both sides of the filter assembly to block the loss of coolant and then removing the filter assembly from the coolant lines. Be prepared to capture any coolant in a clean container.

The filter assembly can now be flushed to remove any debris by pouring water through the large (3/4") port and allowing it to drain out the smaller (5/8") port. The water used to flush the filter should be captured and examined for debris. Before reinstalling the filter assembly, a small amount of coolant should be flushed out of the inlet line to clear it of any debris. Be sure all connections are secure and no leaks are evident.

NOTE: Should an excessive amount of debris be evident in the filter, or if the filter is repeatedly blocked by debris, it is strongly recommended that the entire coolant system be drained, flushed thoroughly, and refilled with new coolant, per the vehicle manufacturer's specifications.