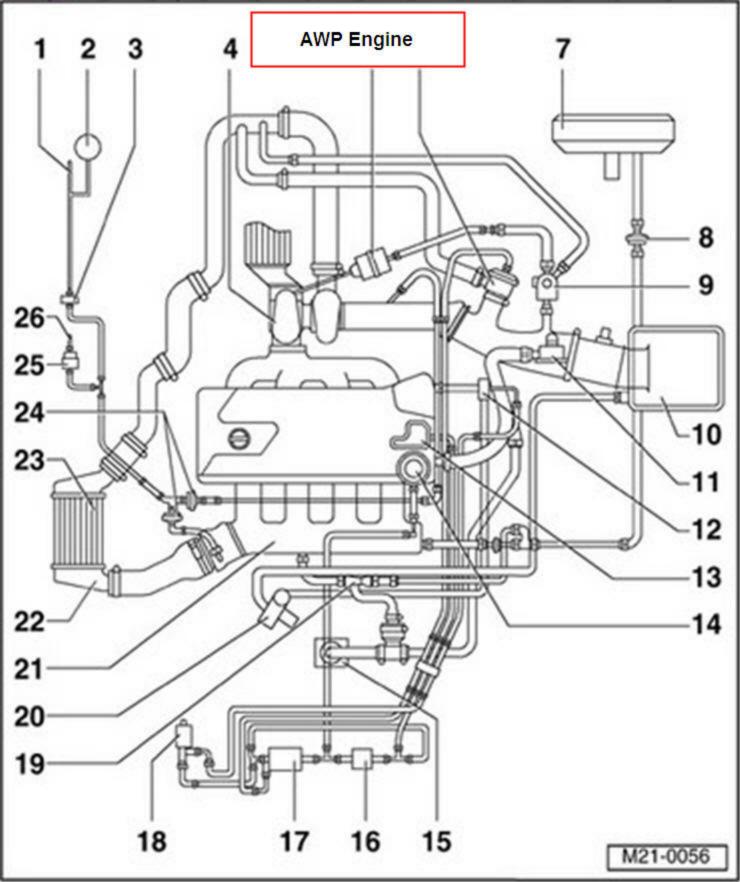
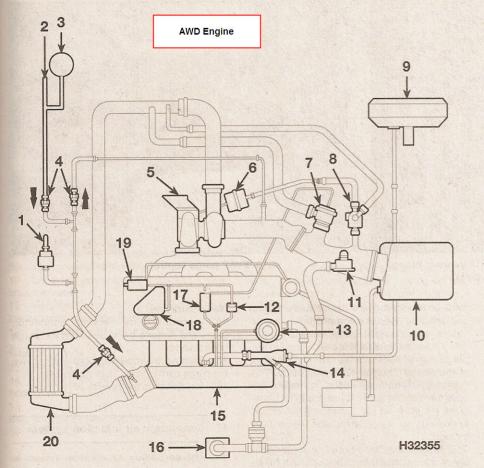
SAI, N249, PCV, EVAP Removal Kit

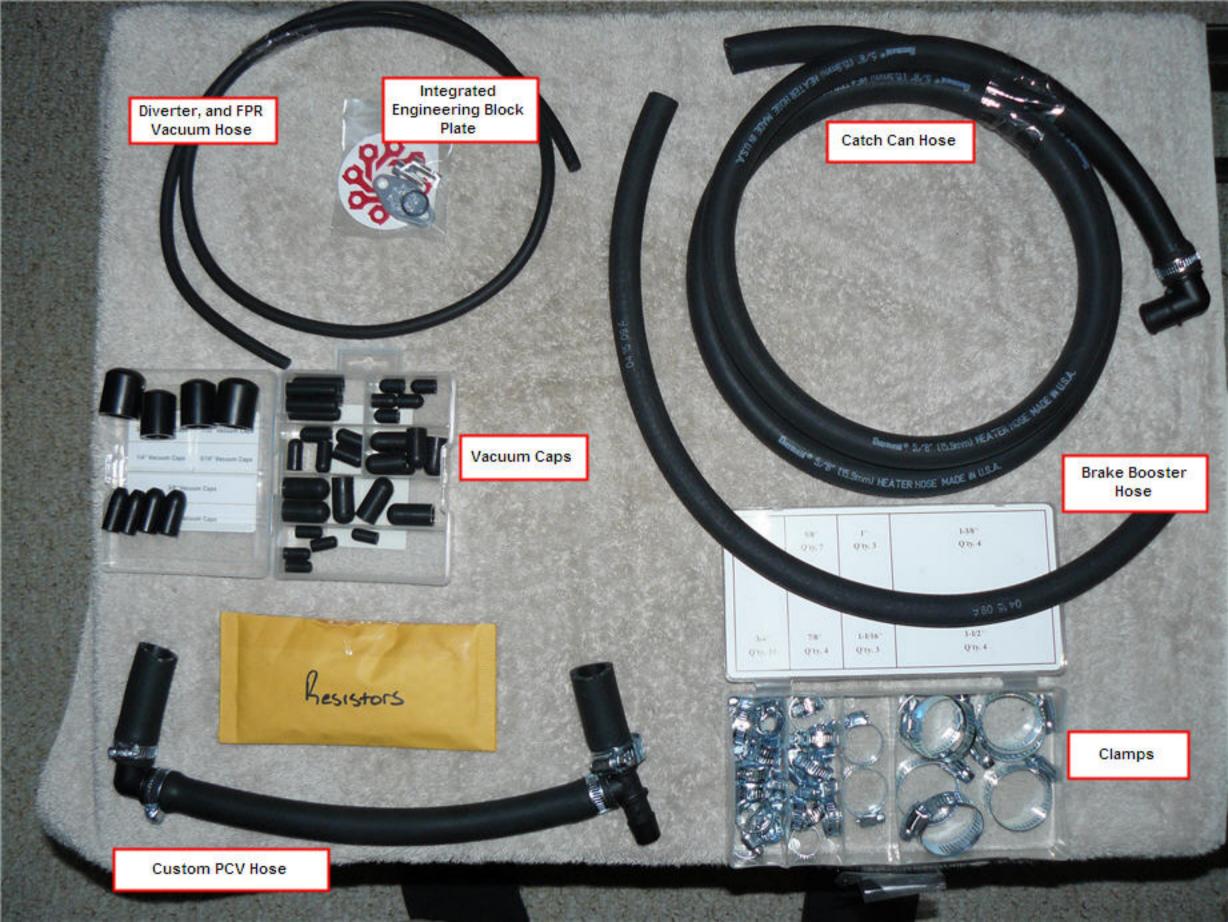
Instructions by Nathan Stevic

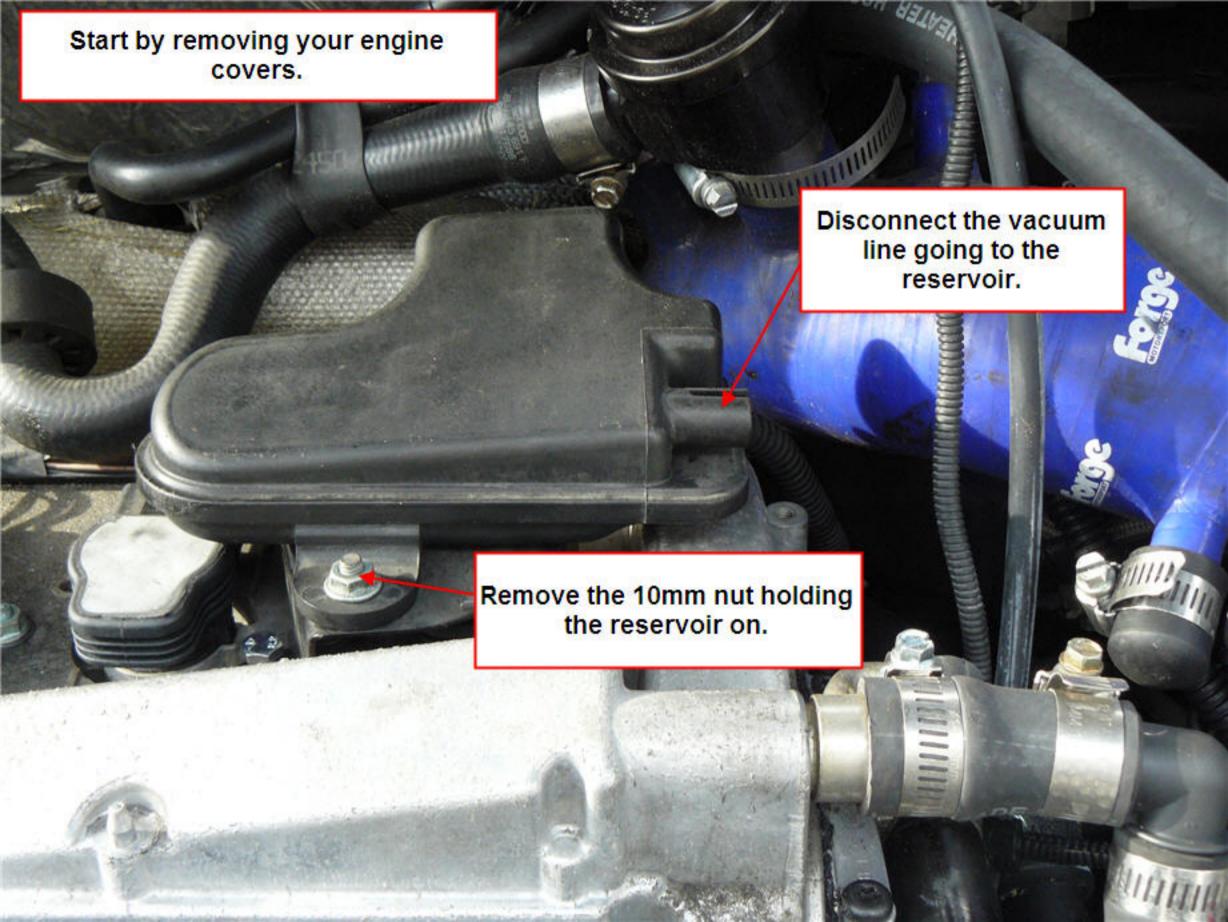
This guide will help you install the components in the kit. I have included elements of the AWD and AWP motors for the removal. In those cases you will see the page labeled specifically for the AWD or AWP.

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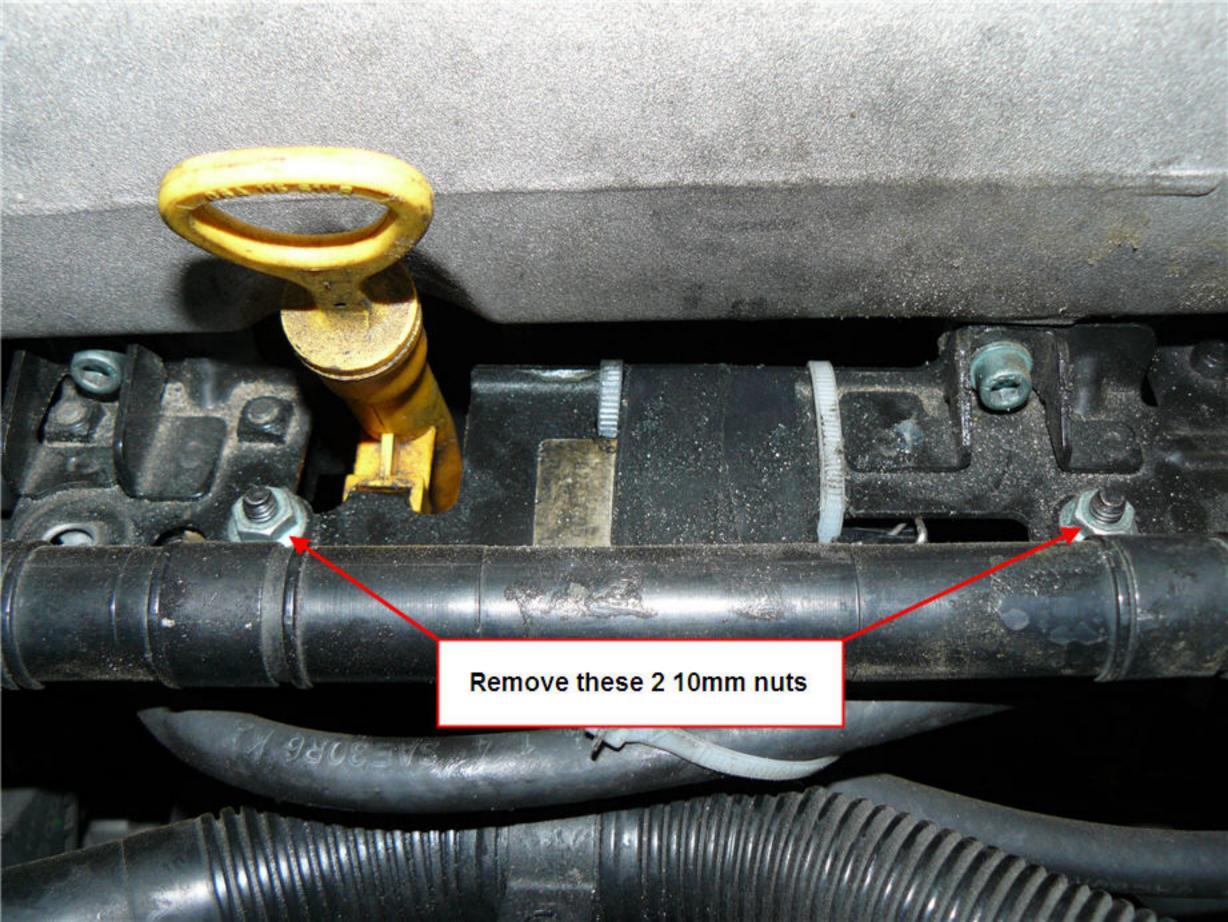


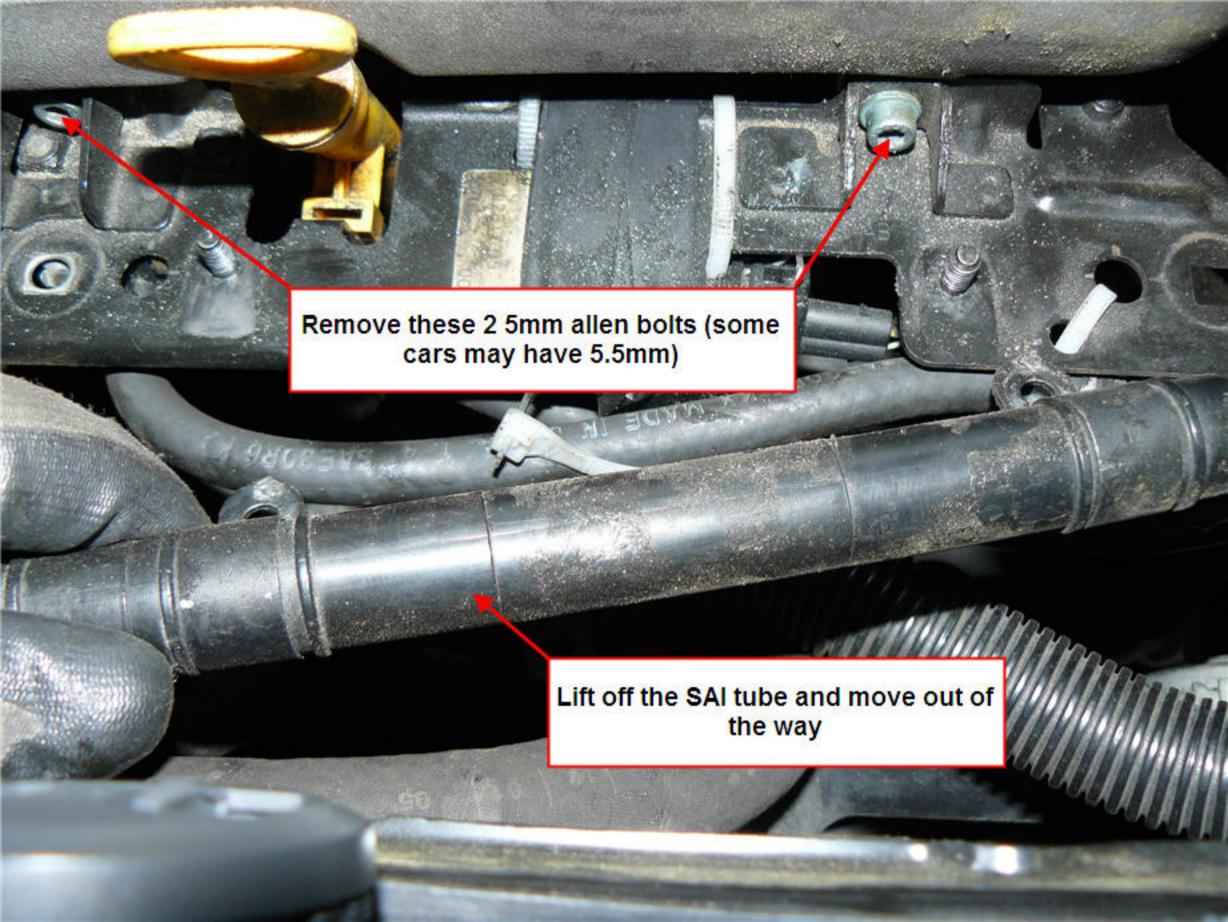


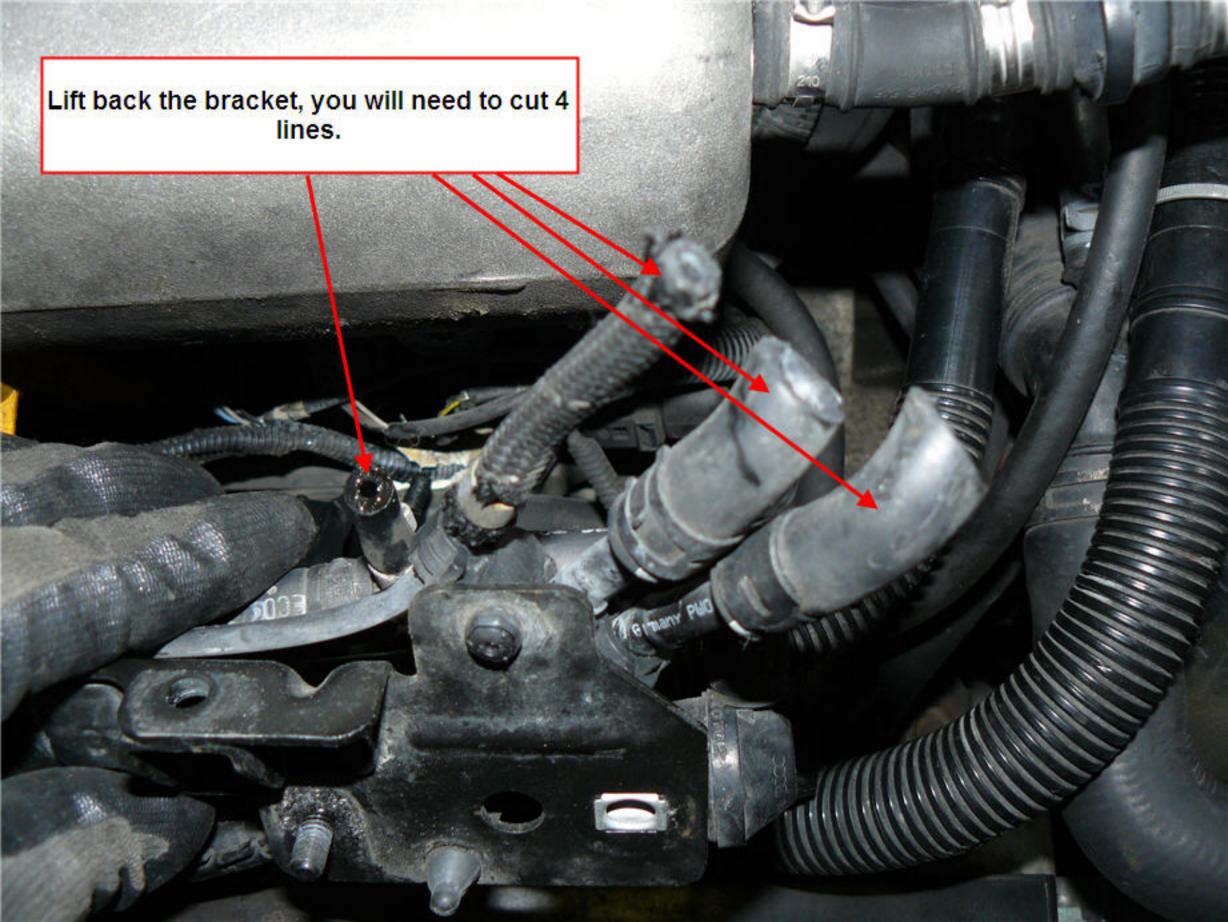


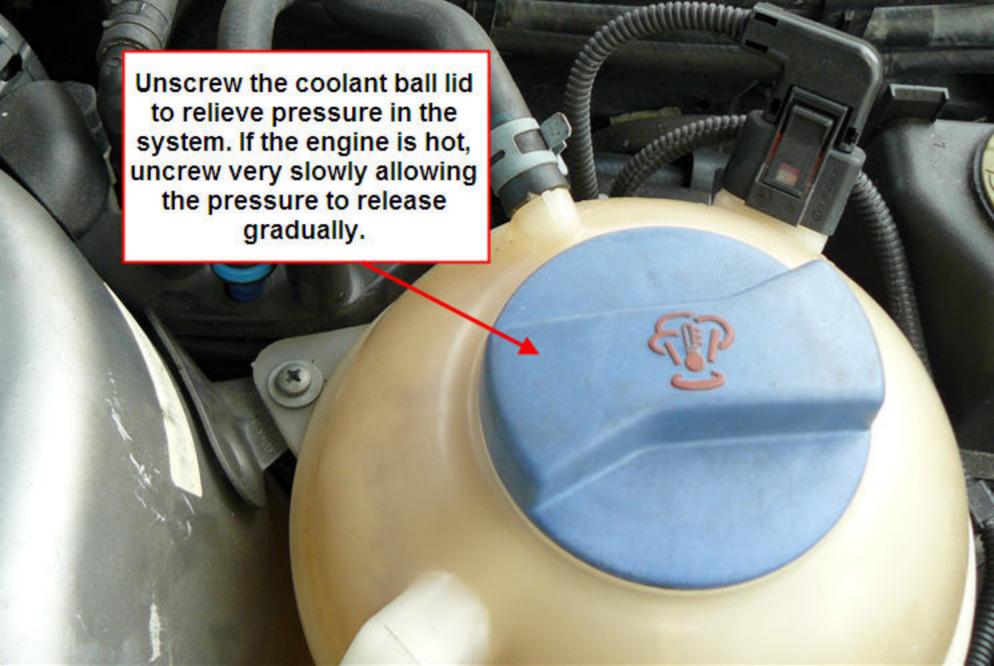


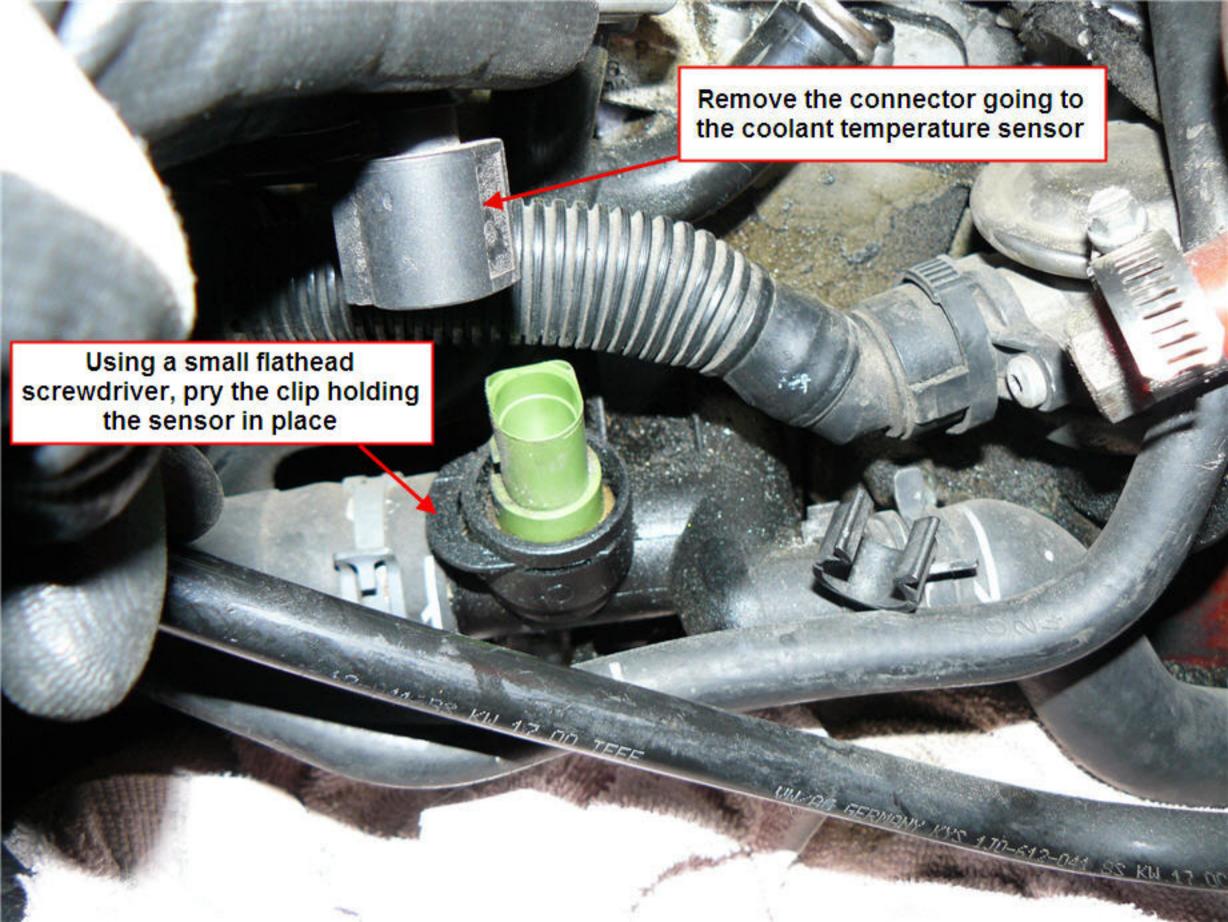




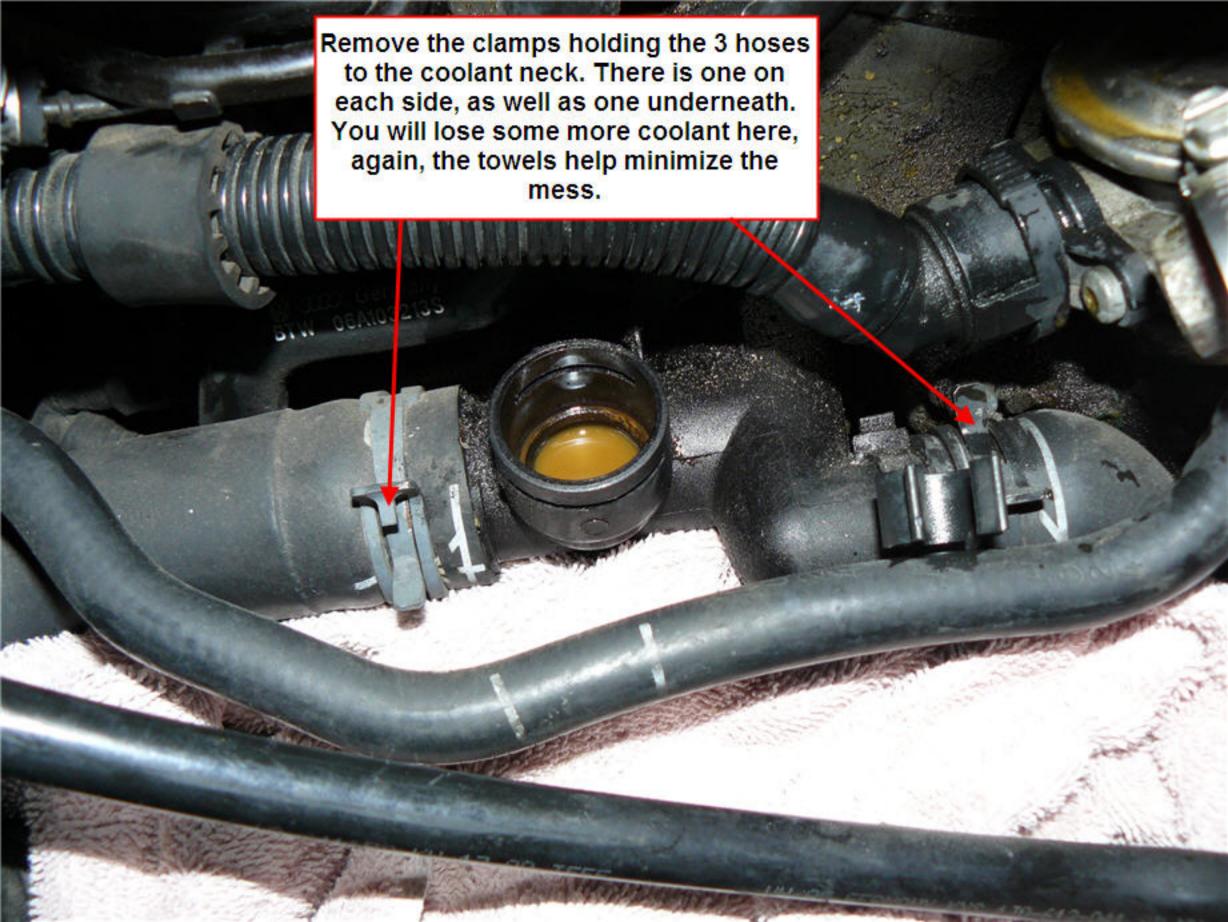


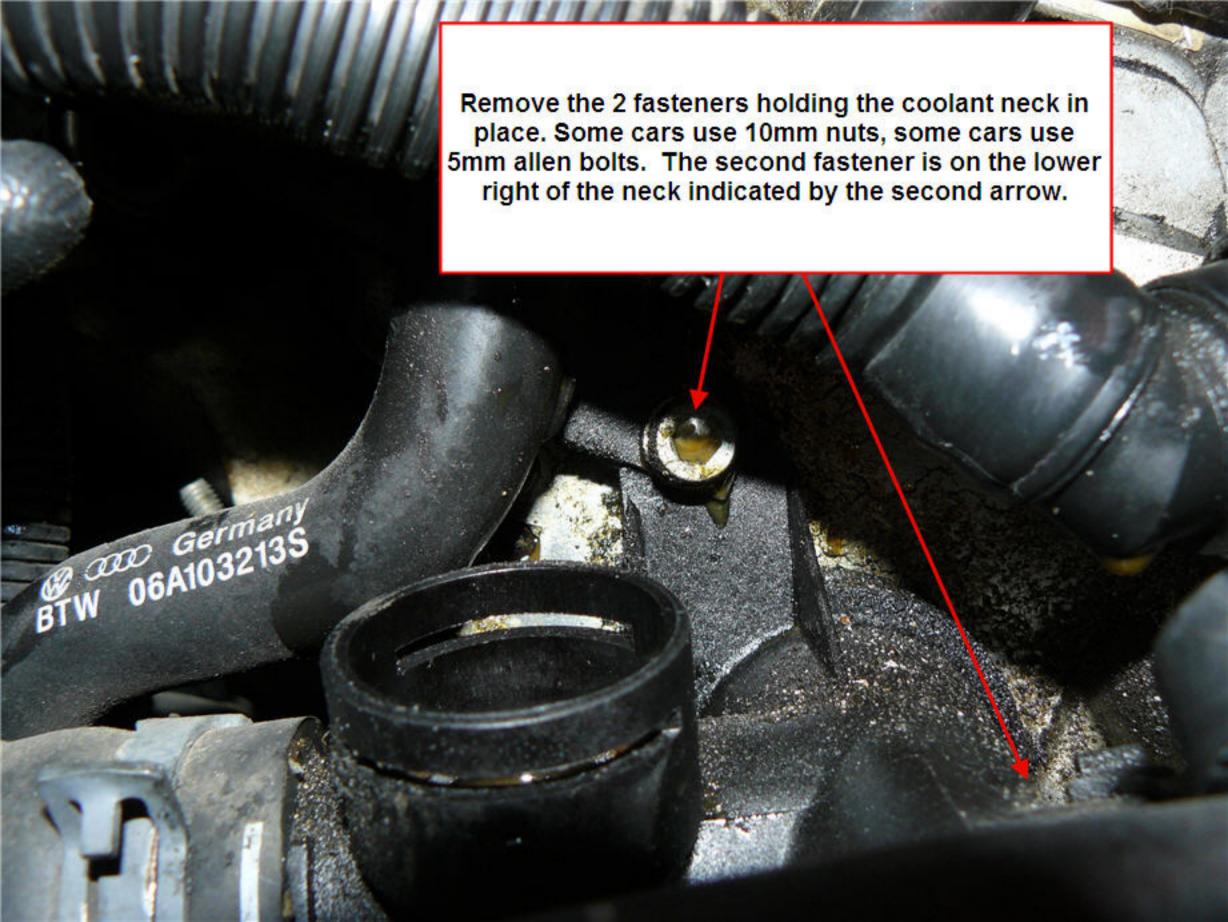




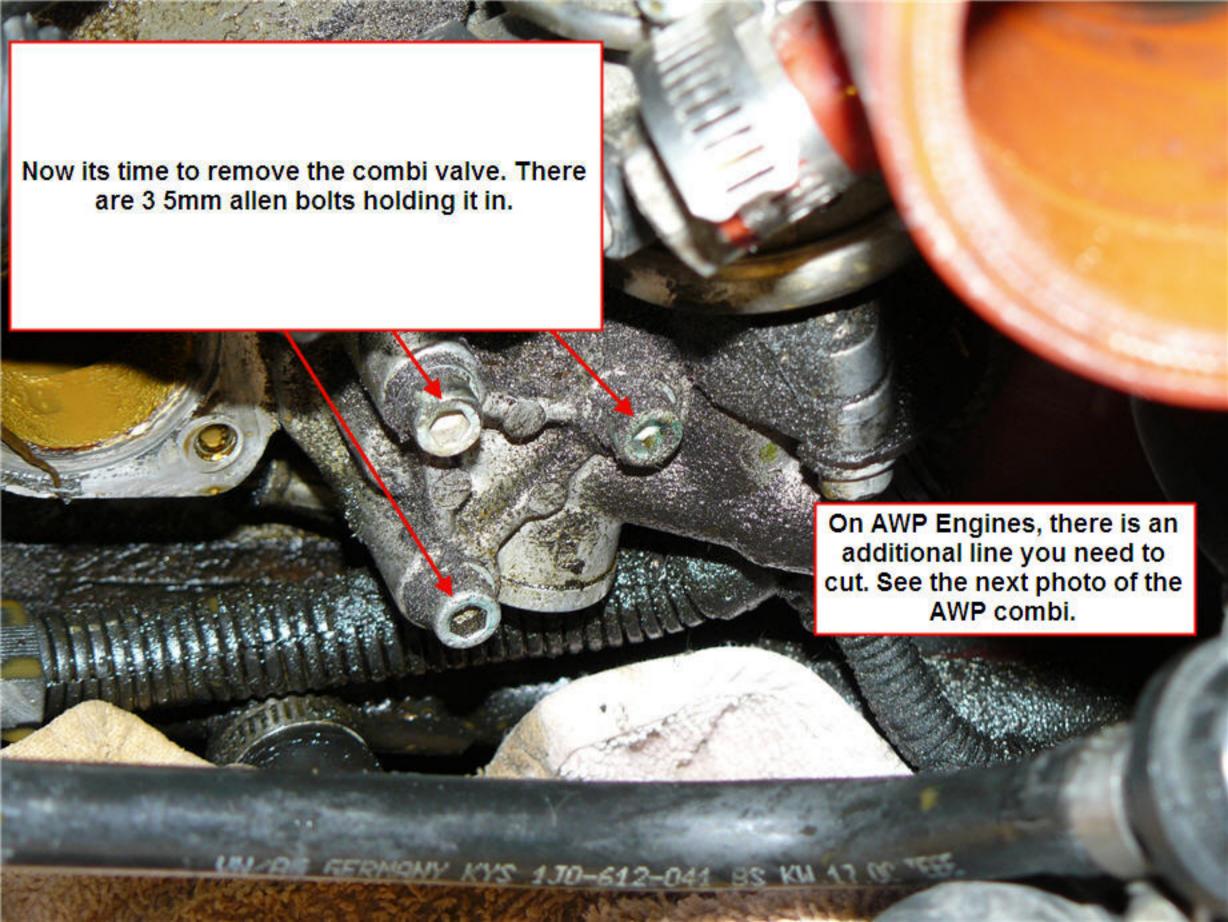


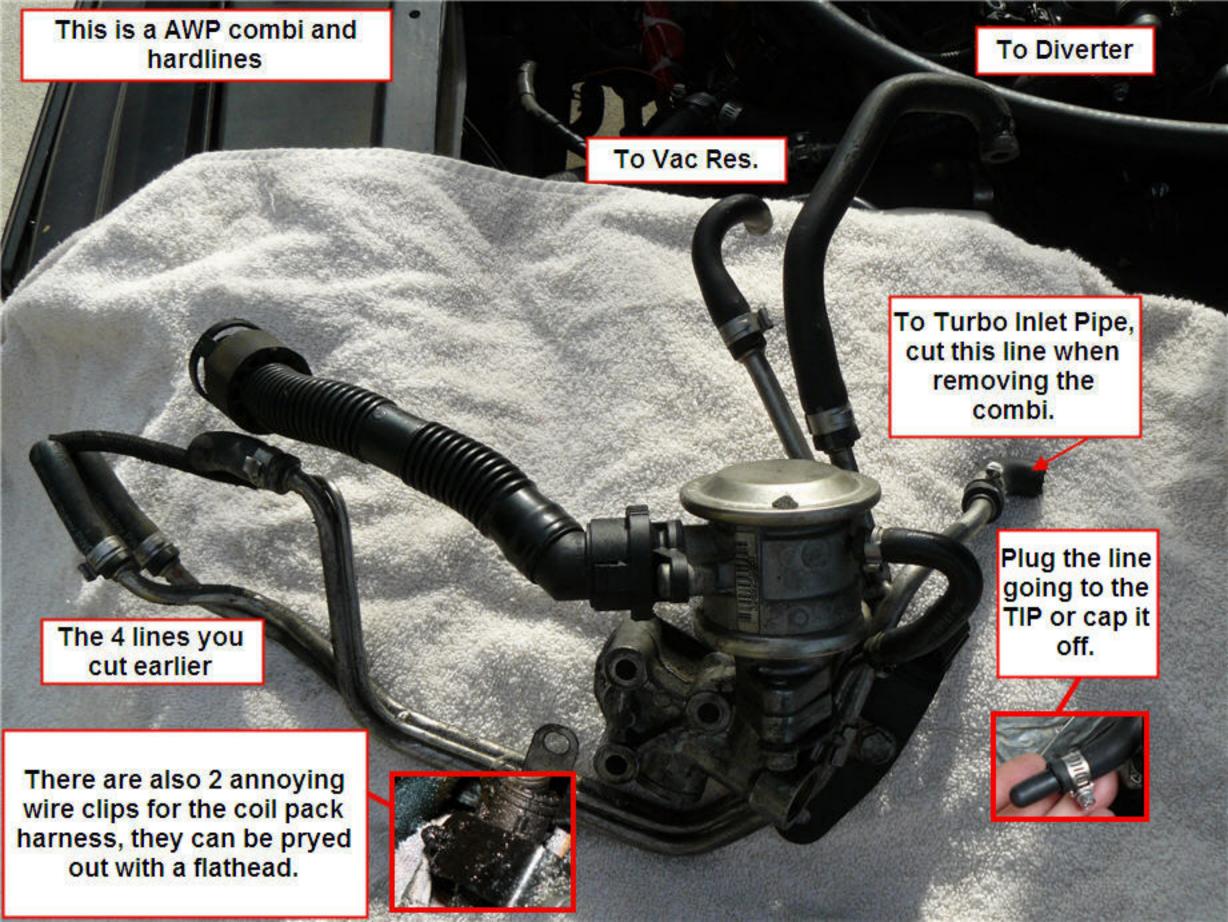


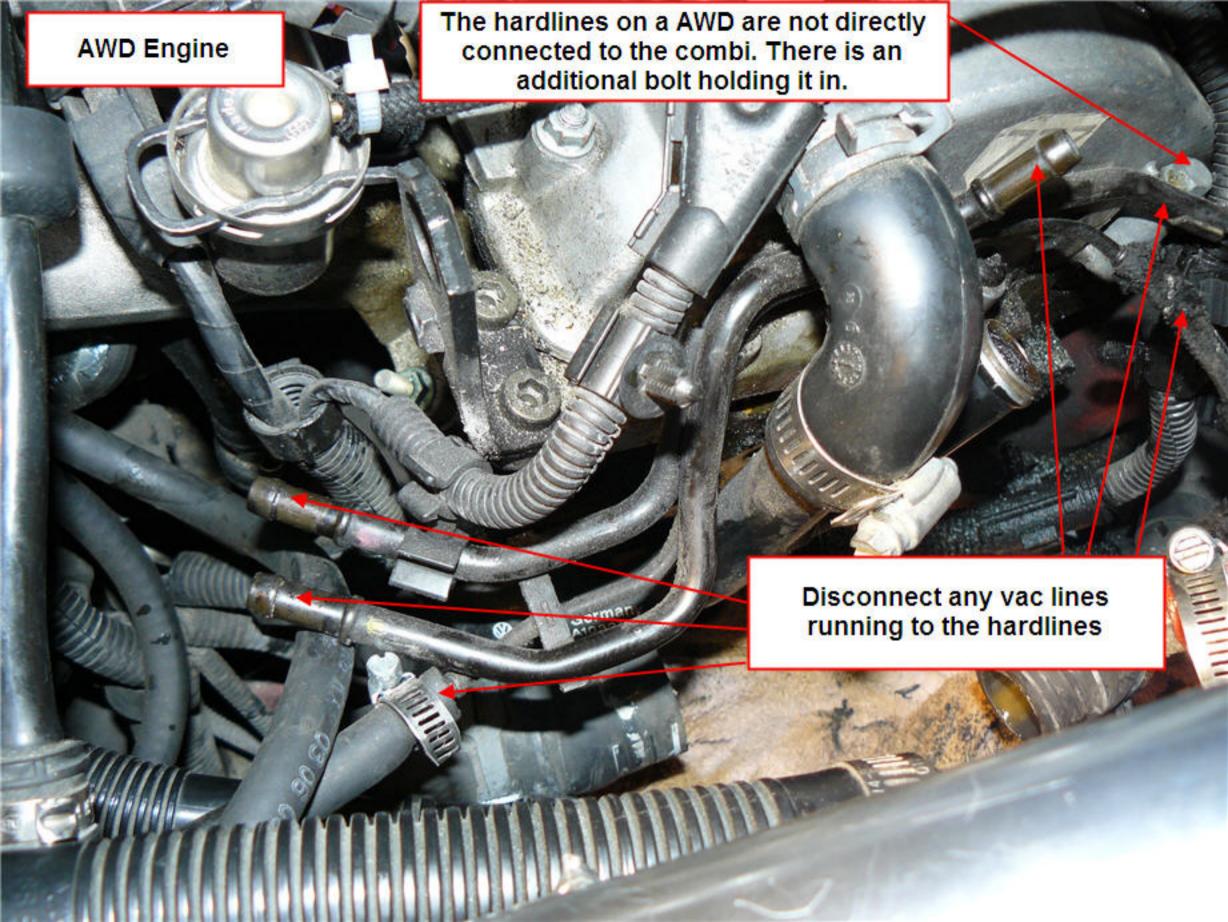




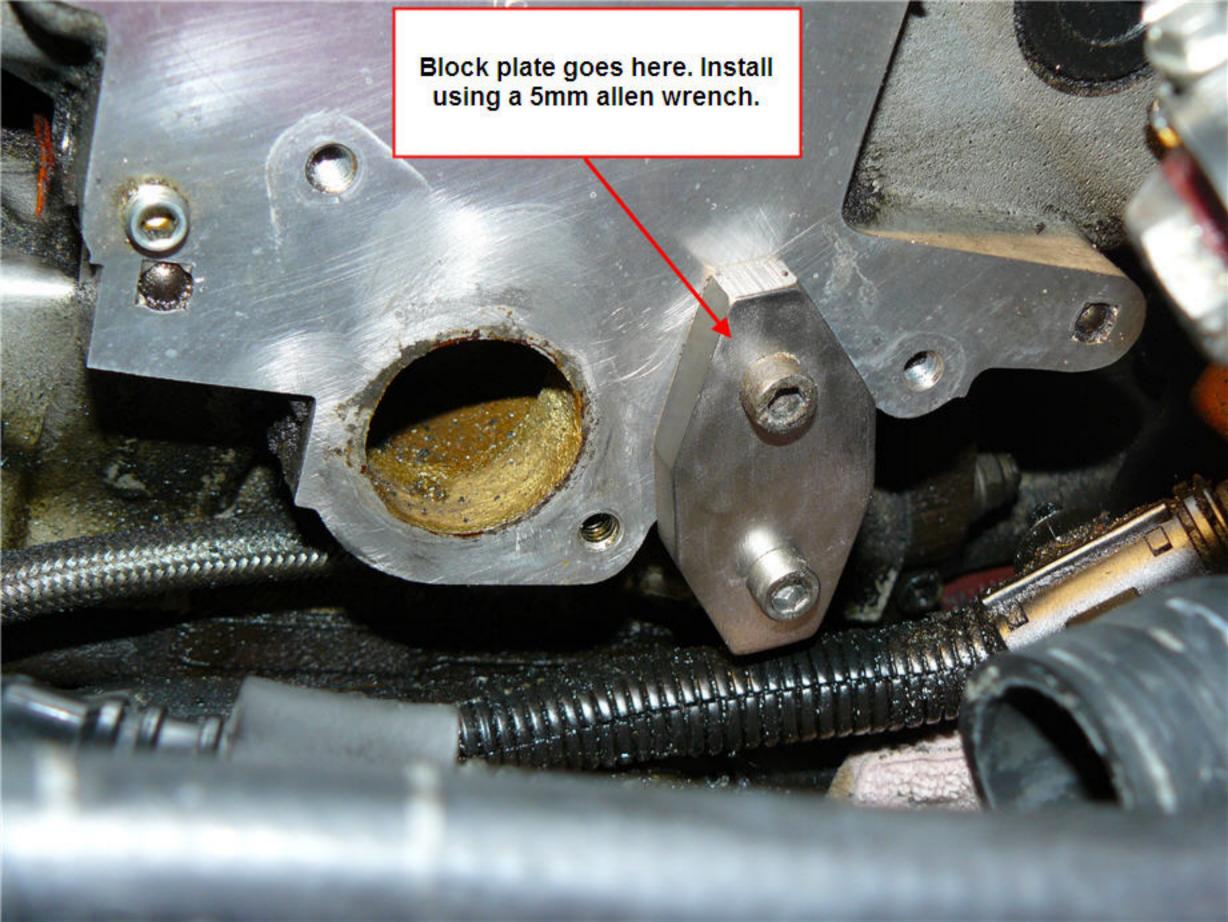


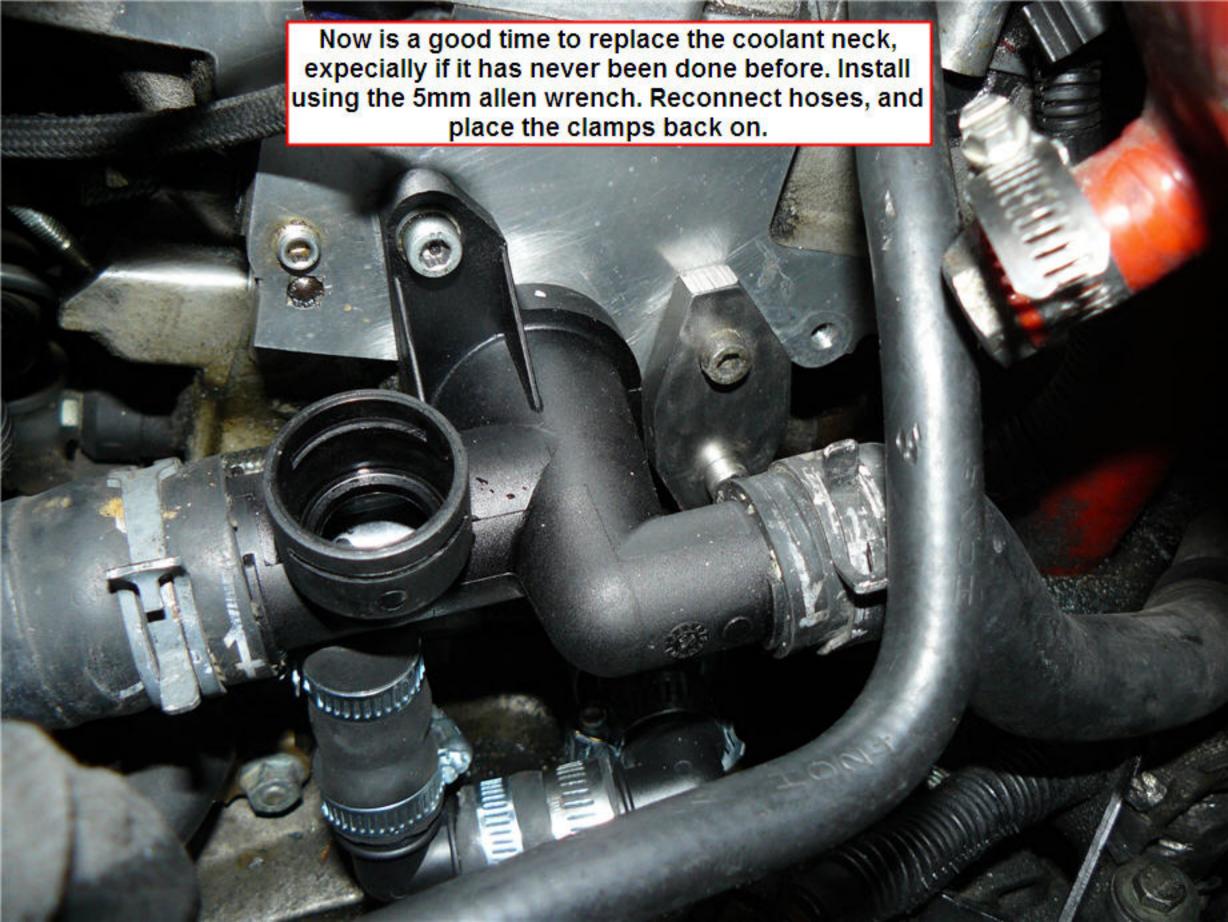




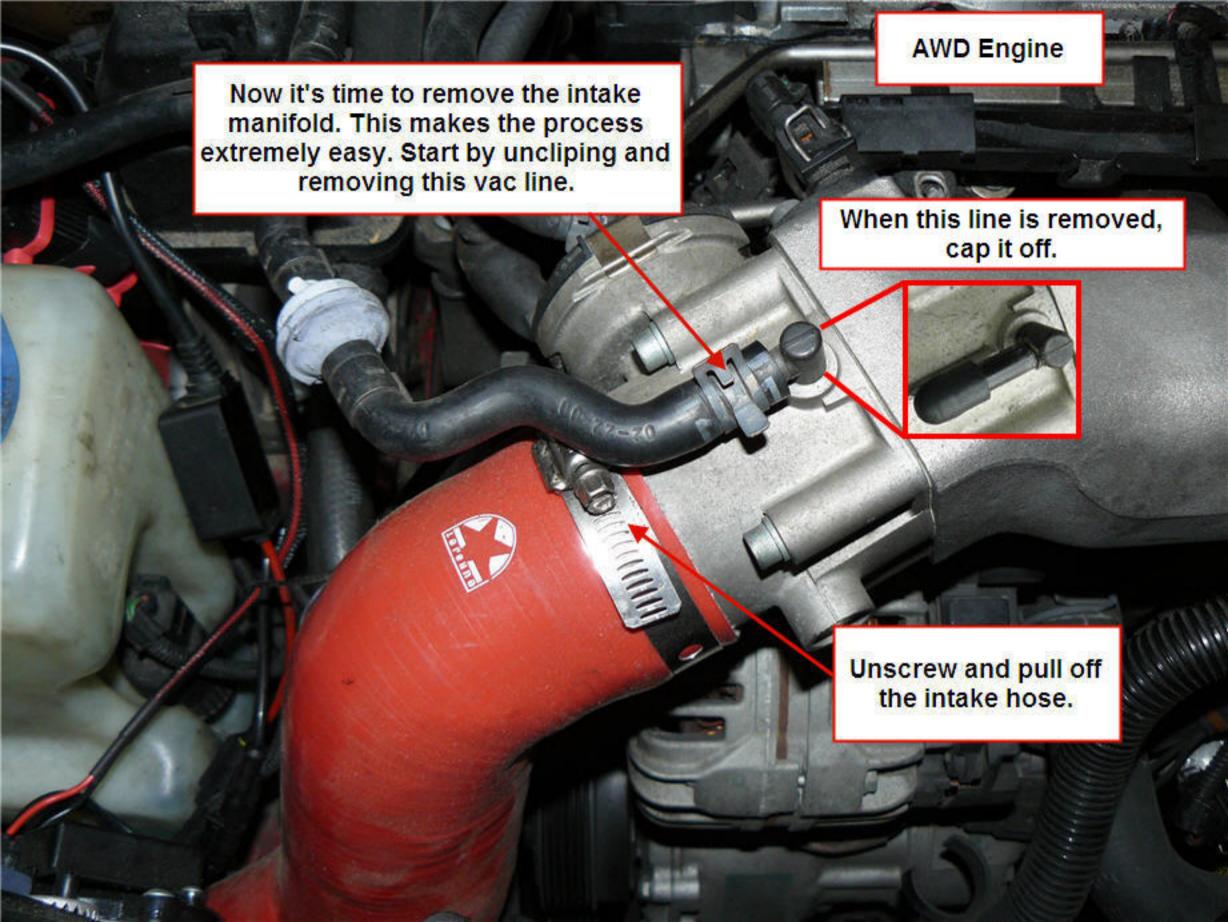


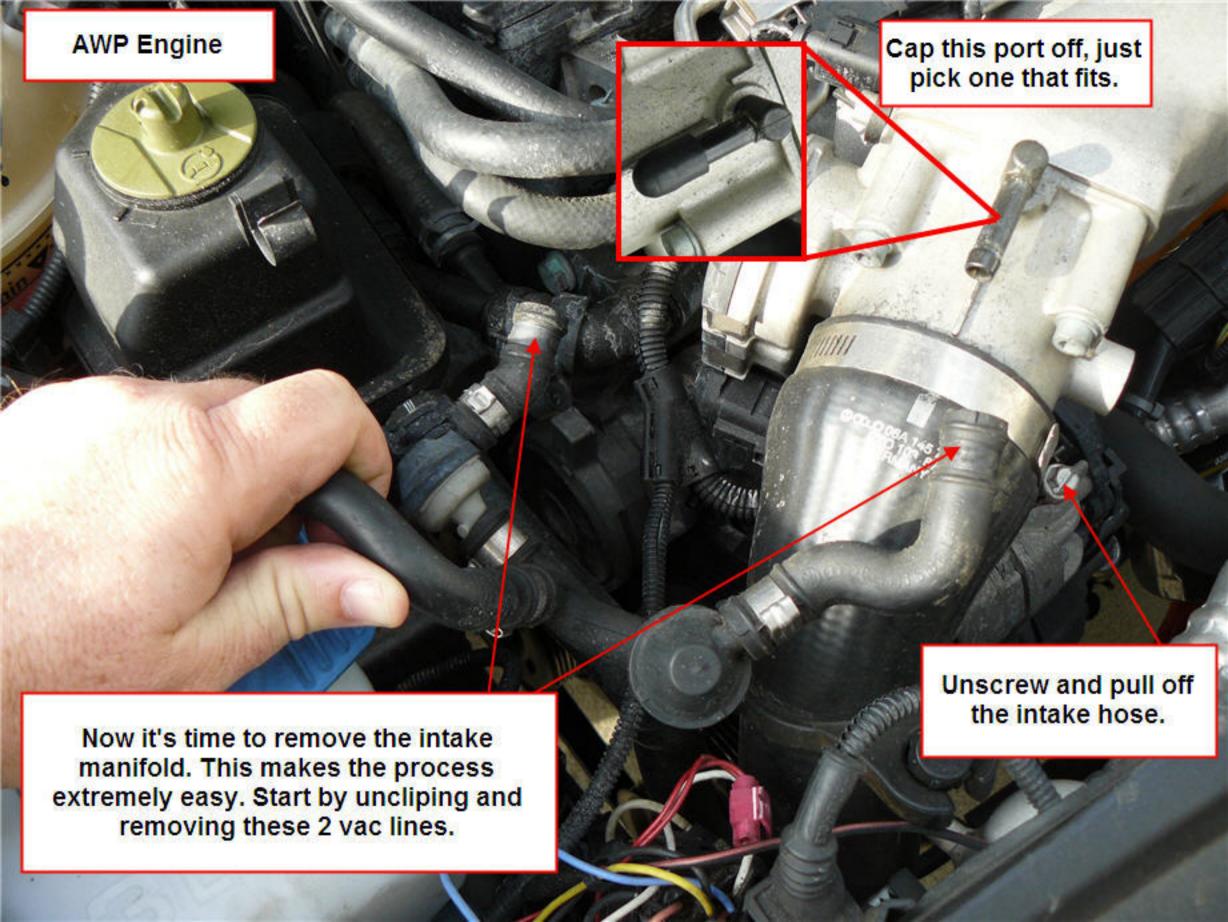


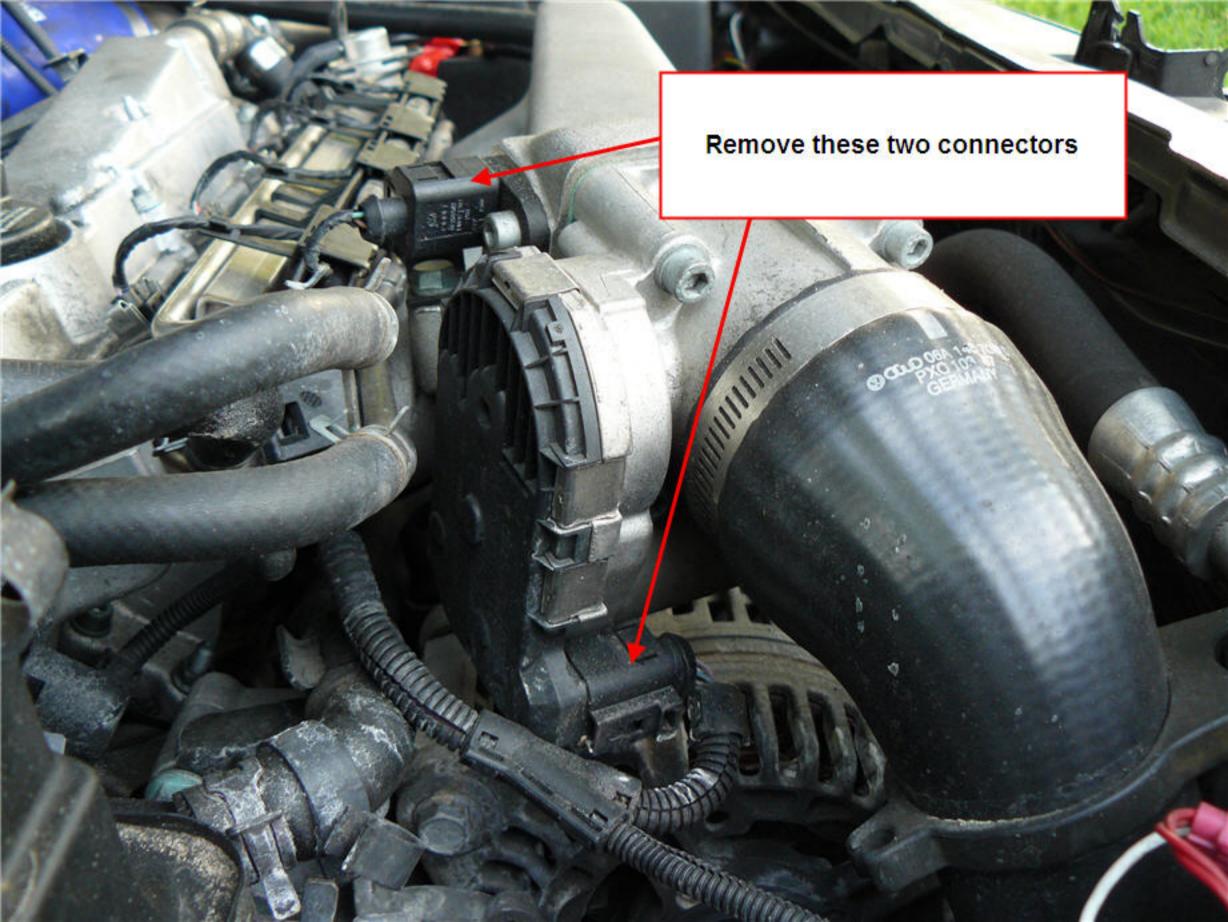






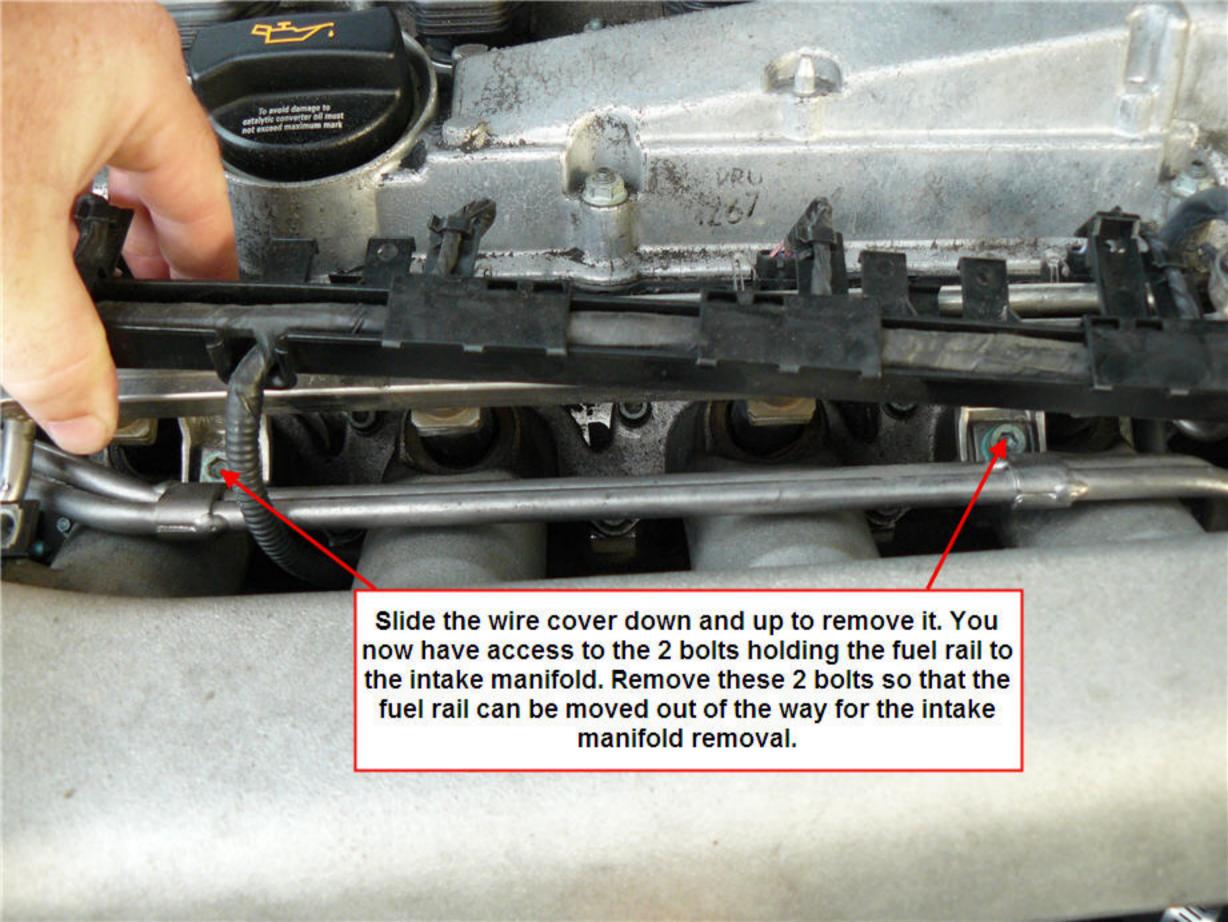


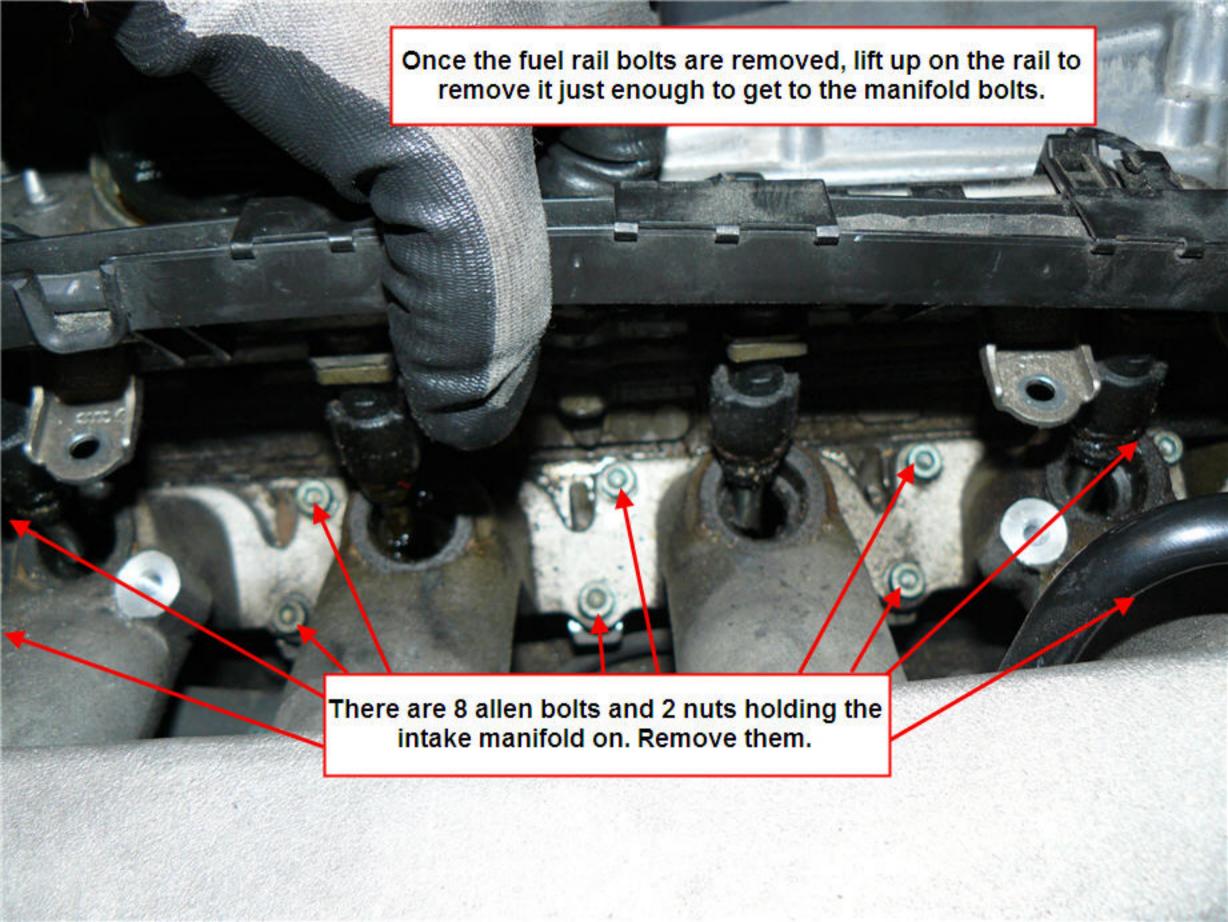




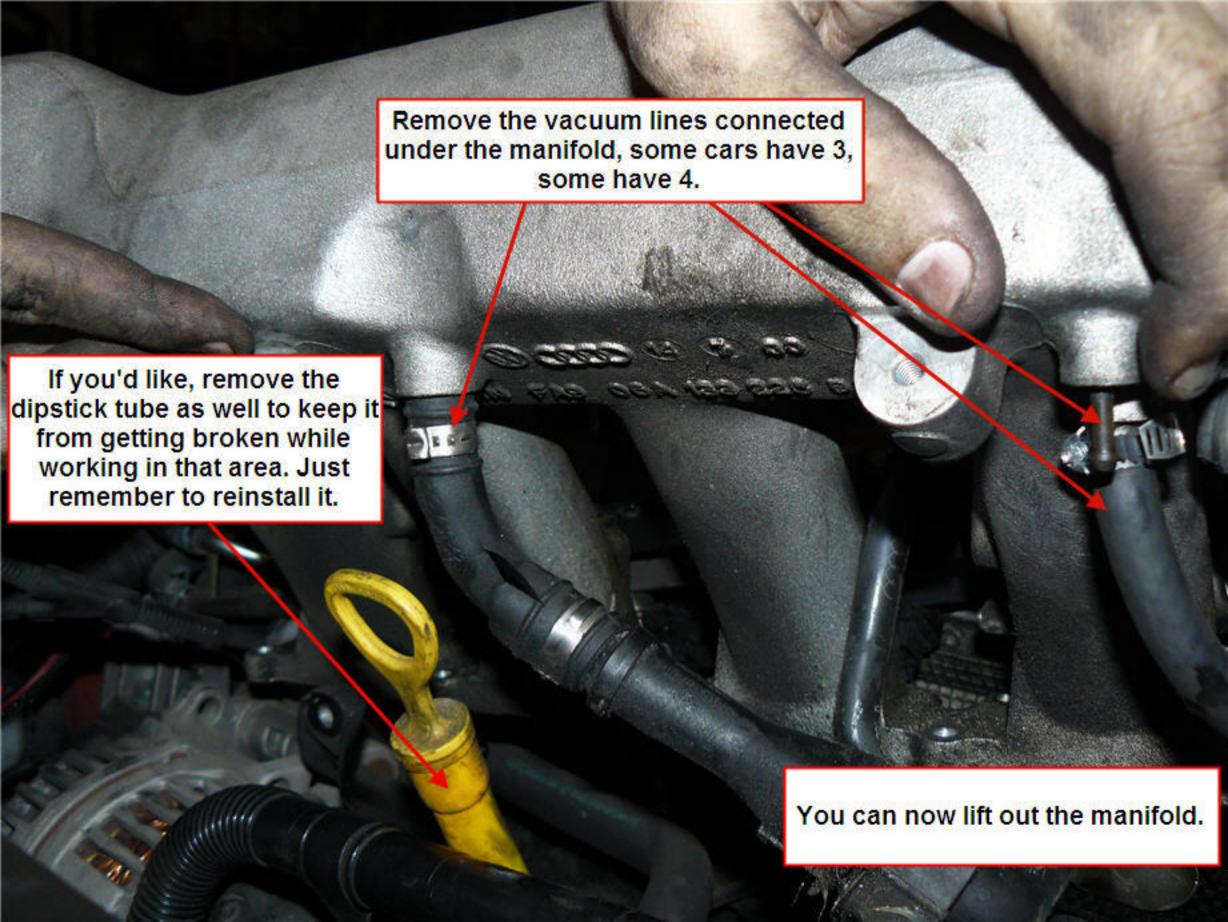


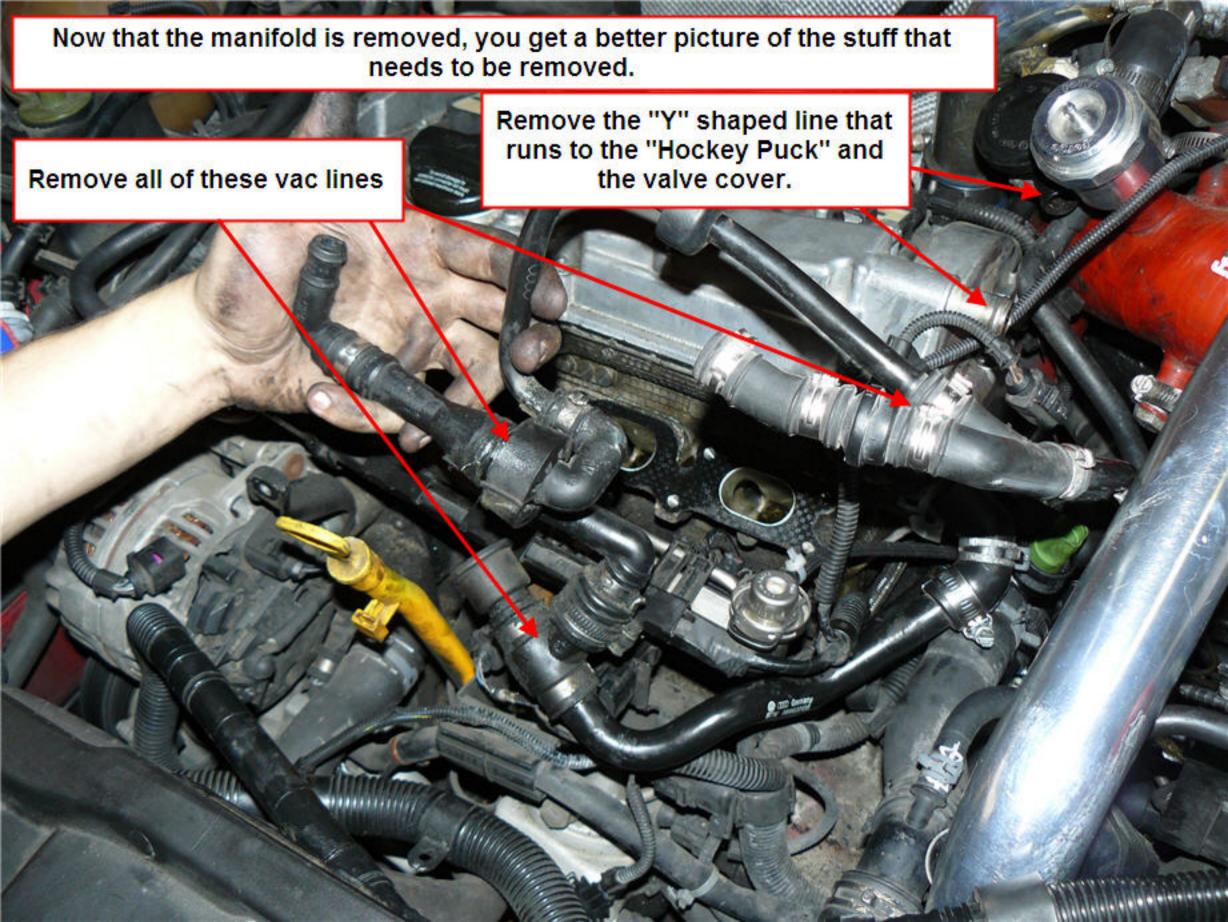






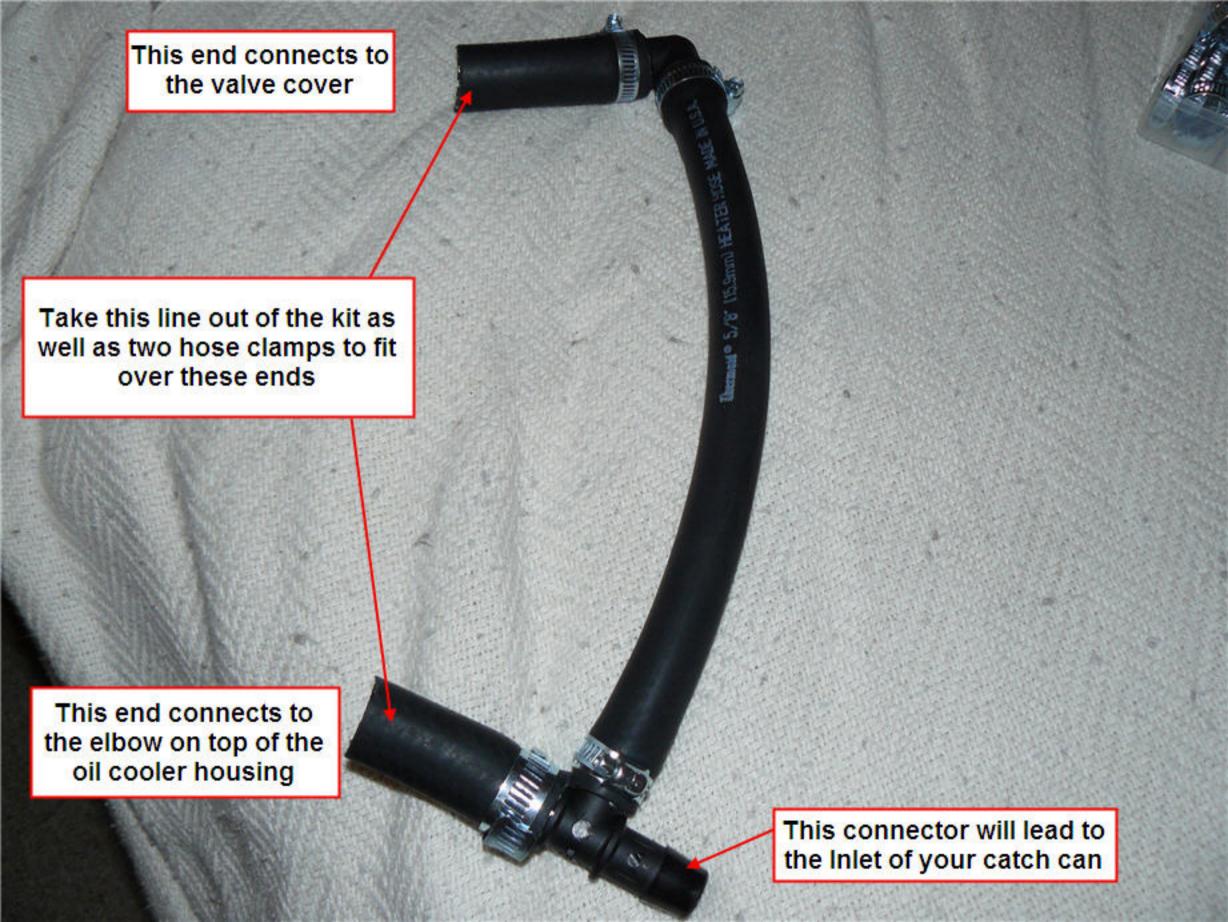


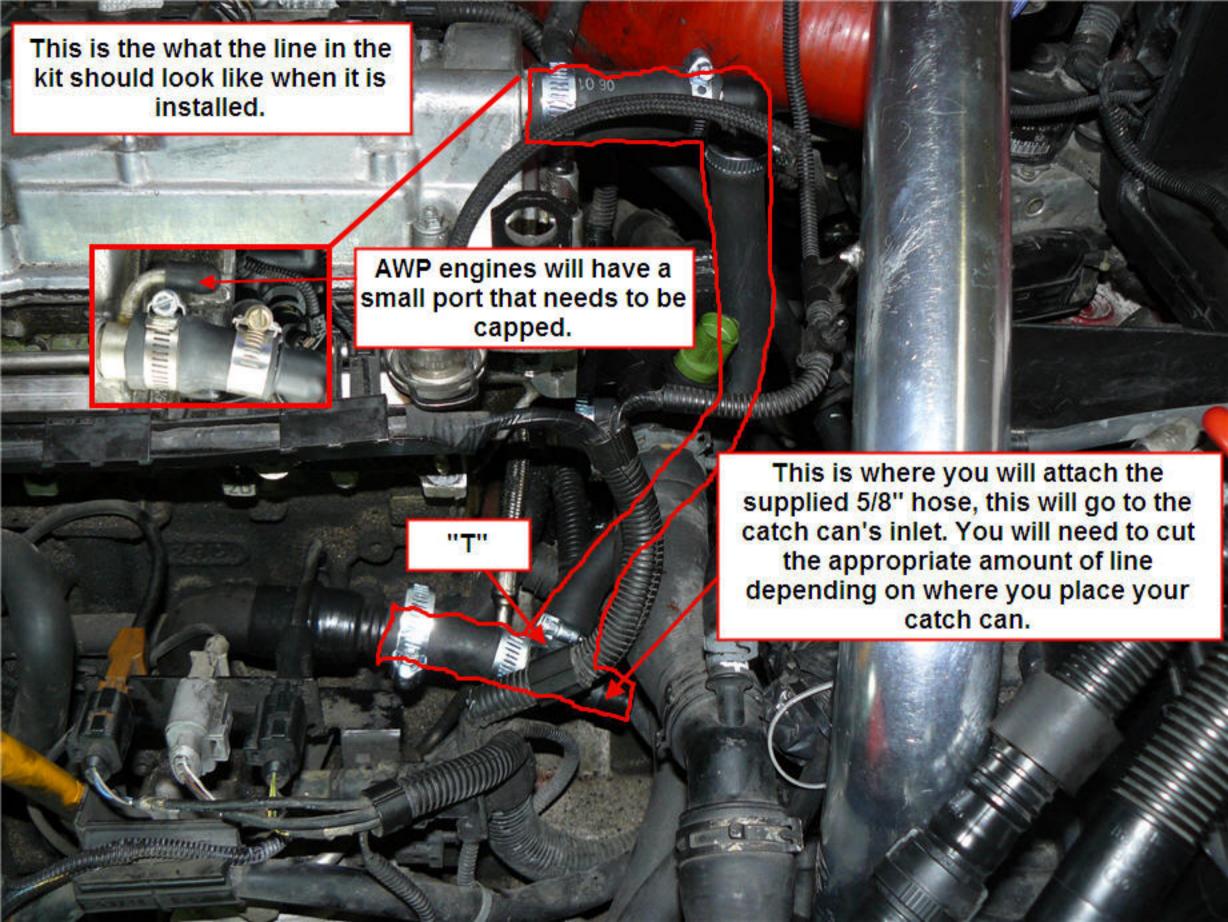




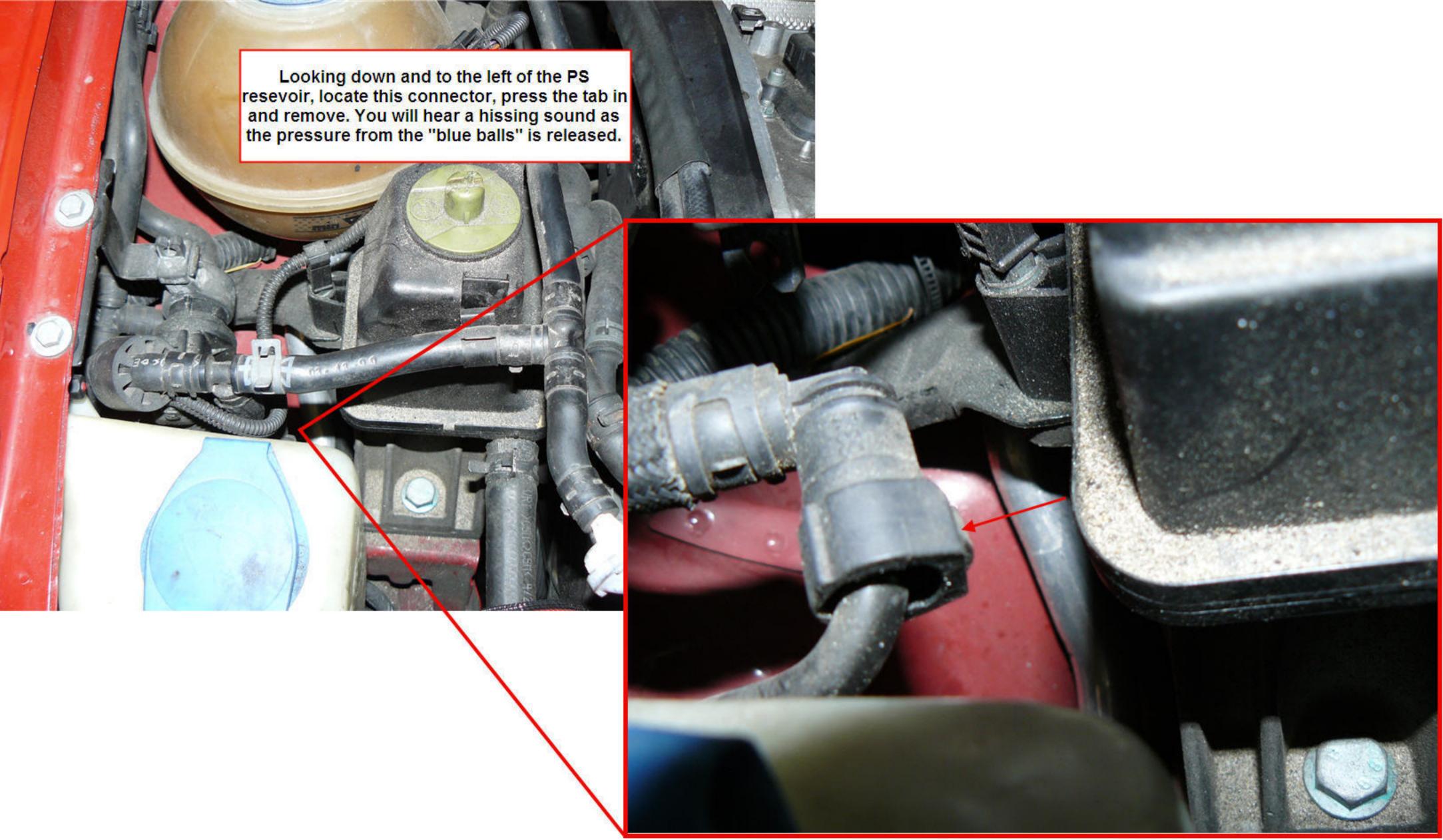


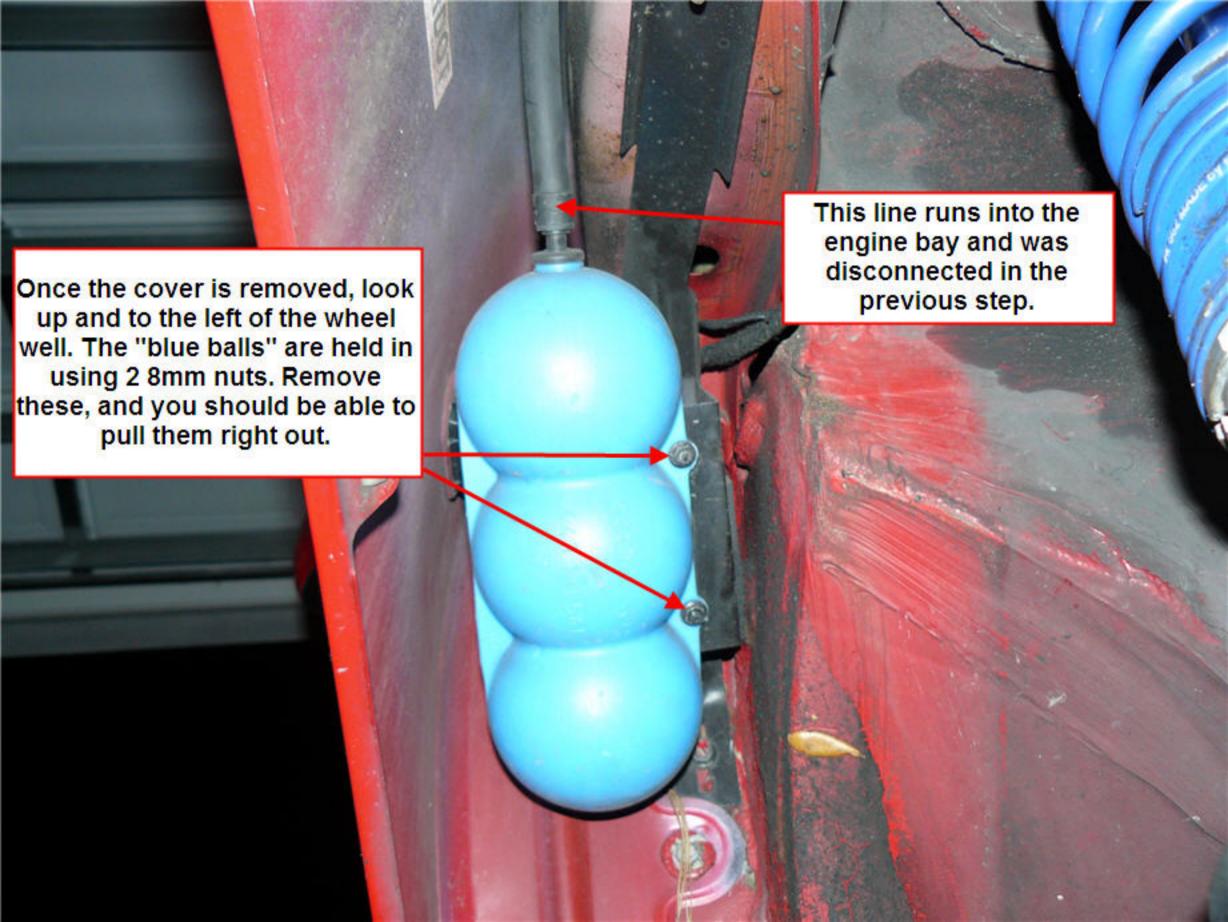


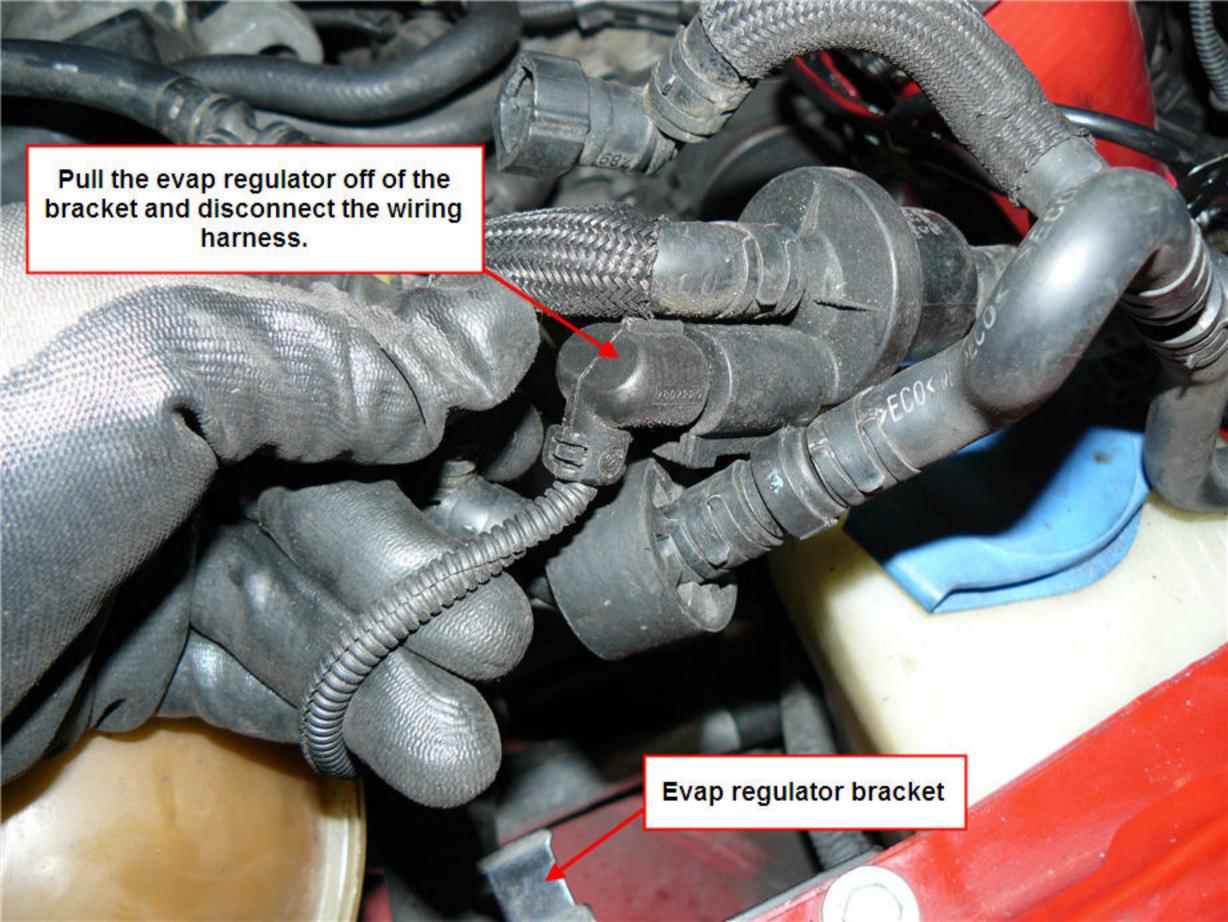


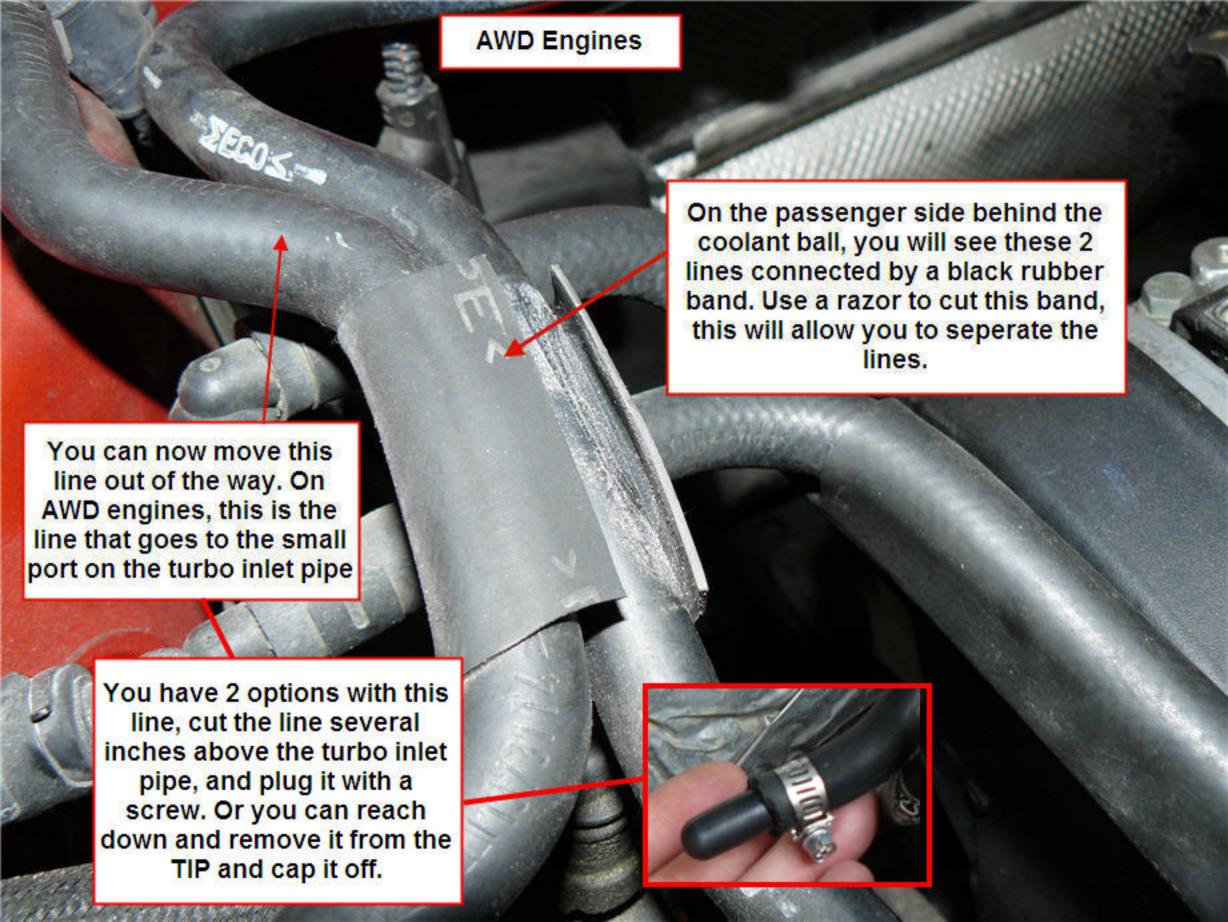


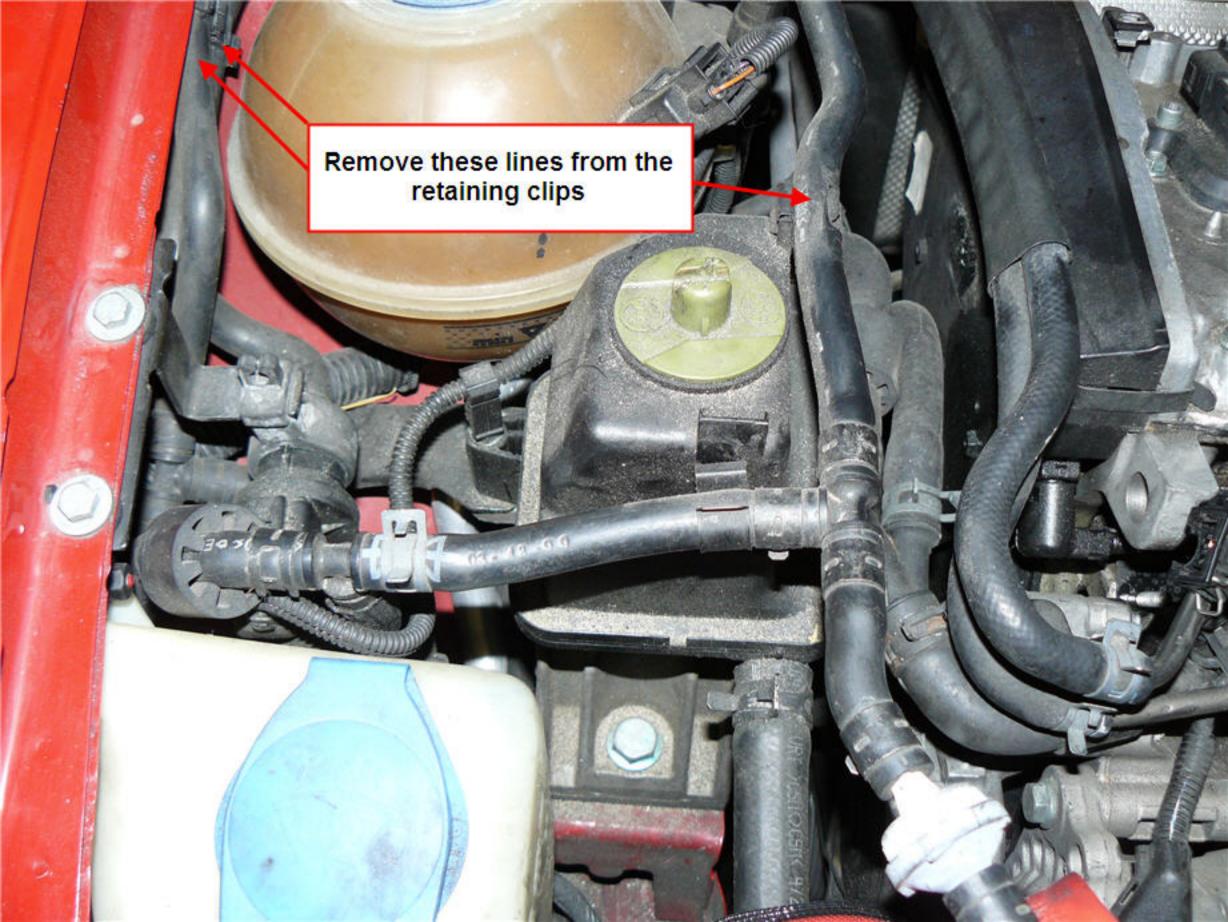






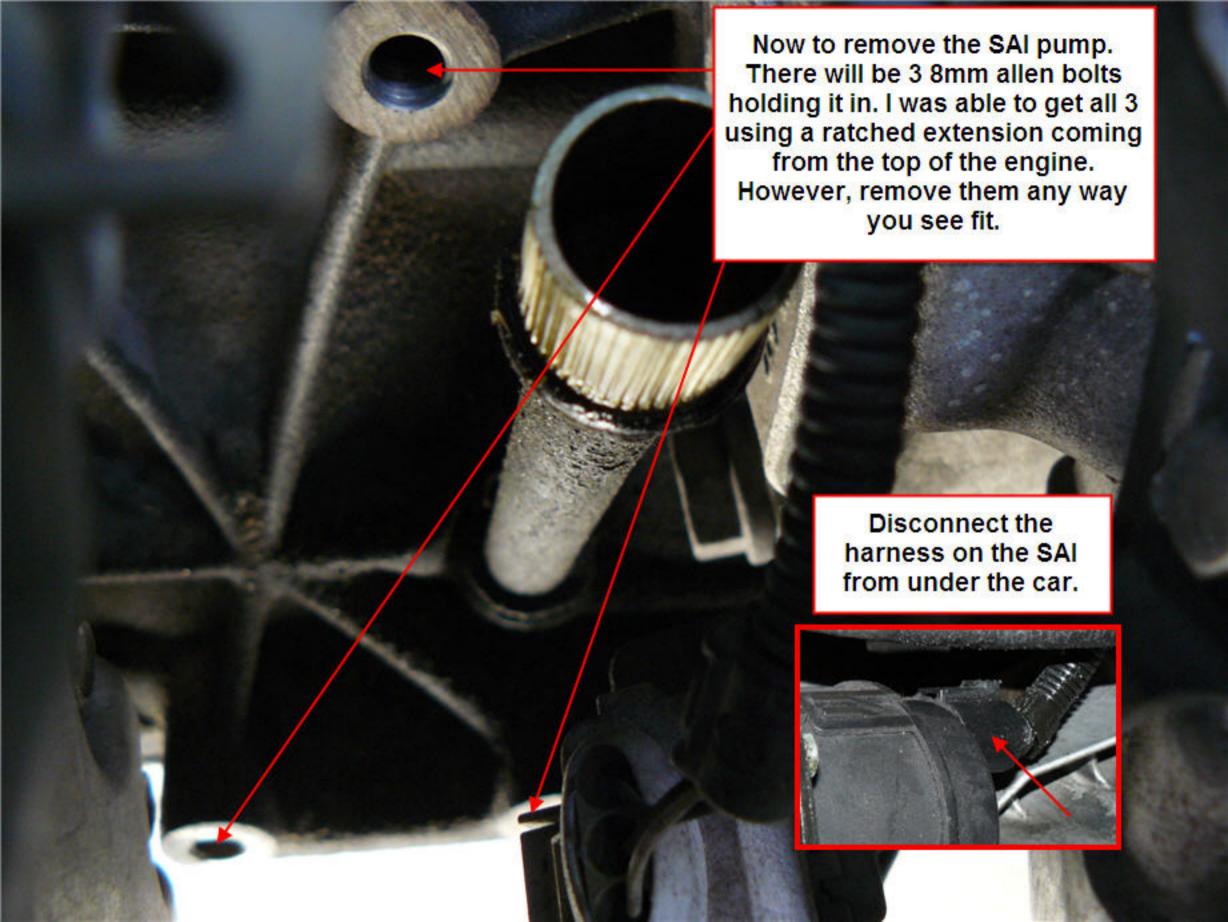














Re-install the intake manifold, the book calls for approximately 5 ft lbs of torque on the nuts and bolts. Now is also a good time to replace the manifold gasket with either a stock one or a NewSouth Power Gasket. Installation is reverse of removal.

AWP Engines, you can cap off the two sides of the hardline that runs under the fuel line. This line is not used





Install bolts



Cap this off



Fuel Rail bolts

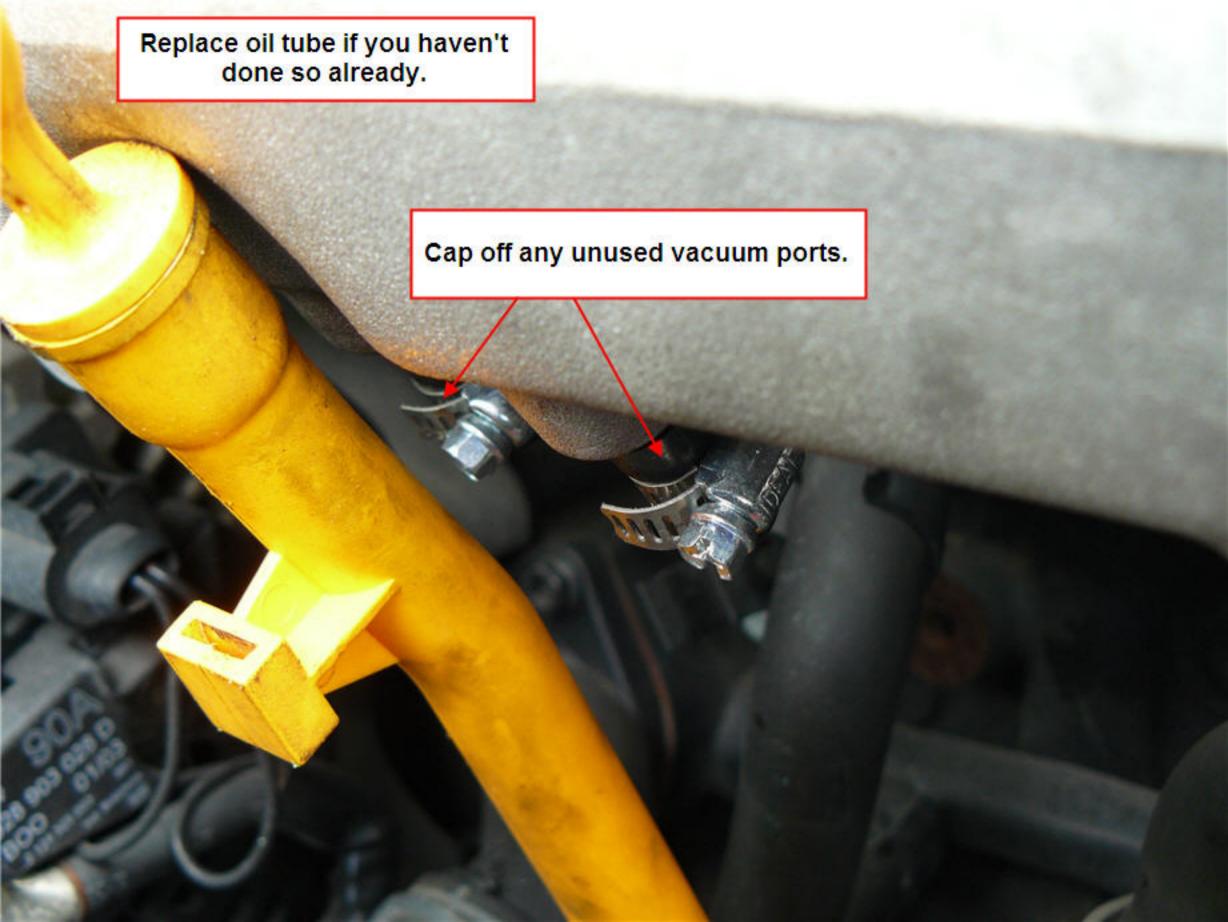


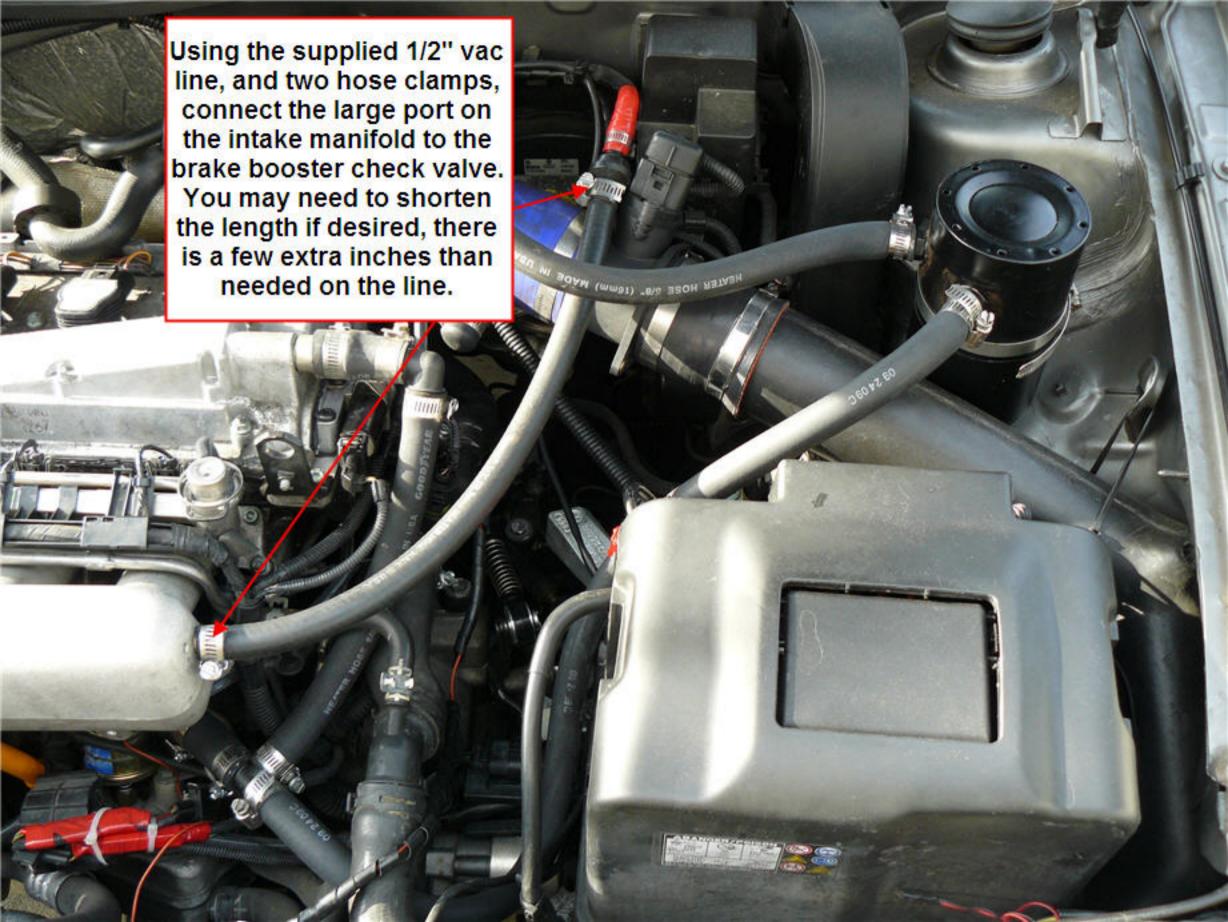
Plug the harnesses back in

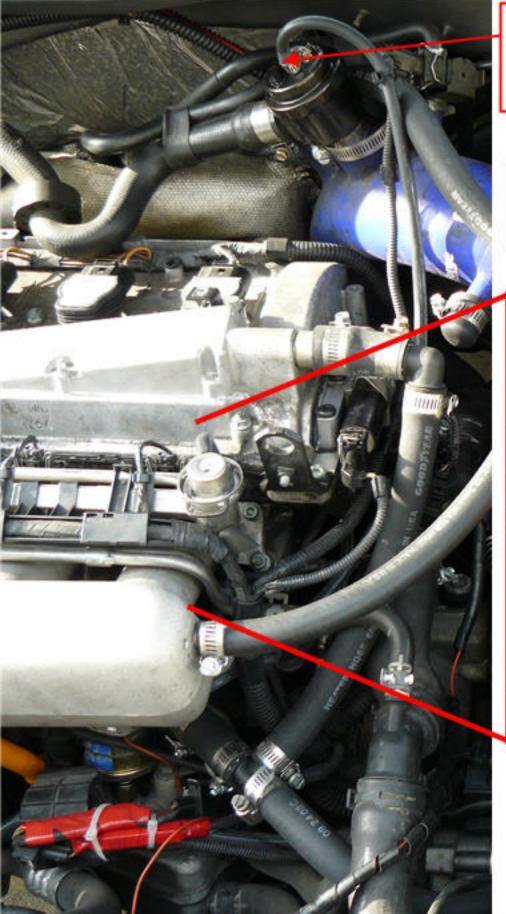


Bolt under the manifold



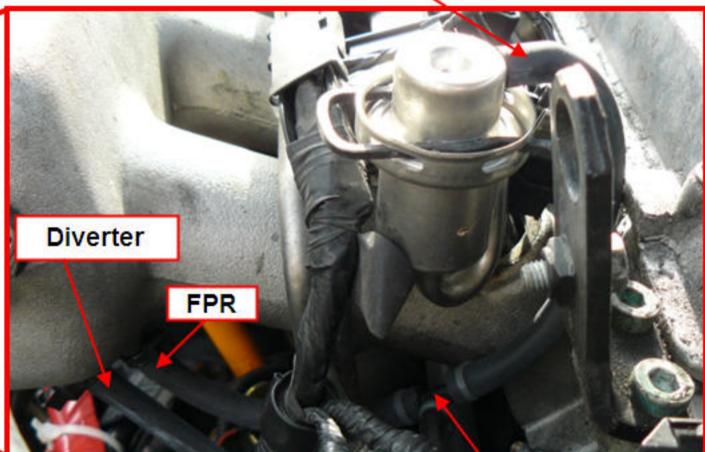




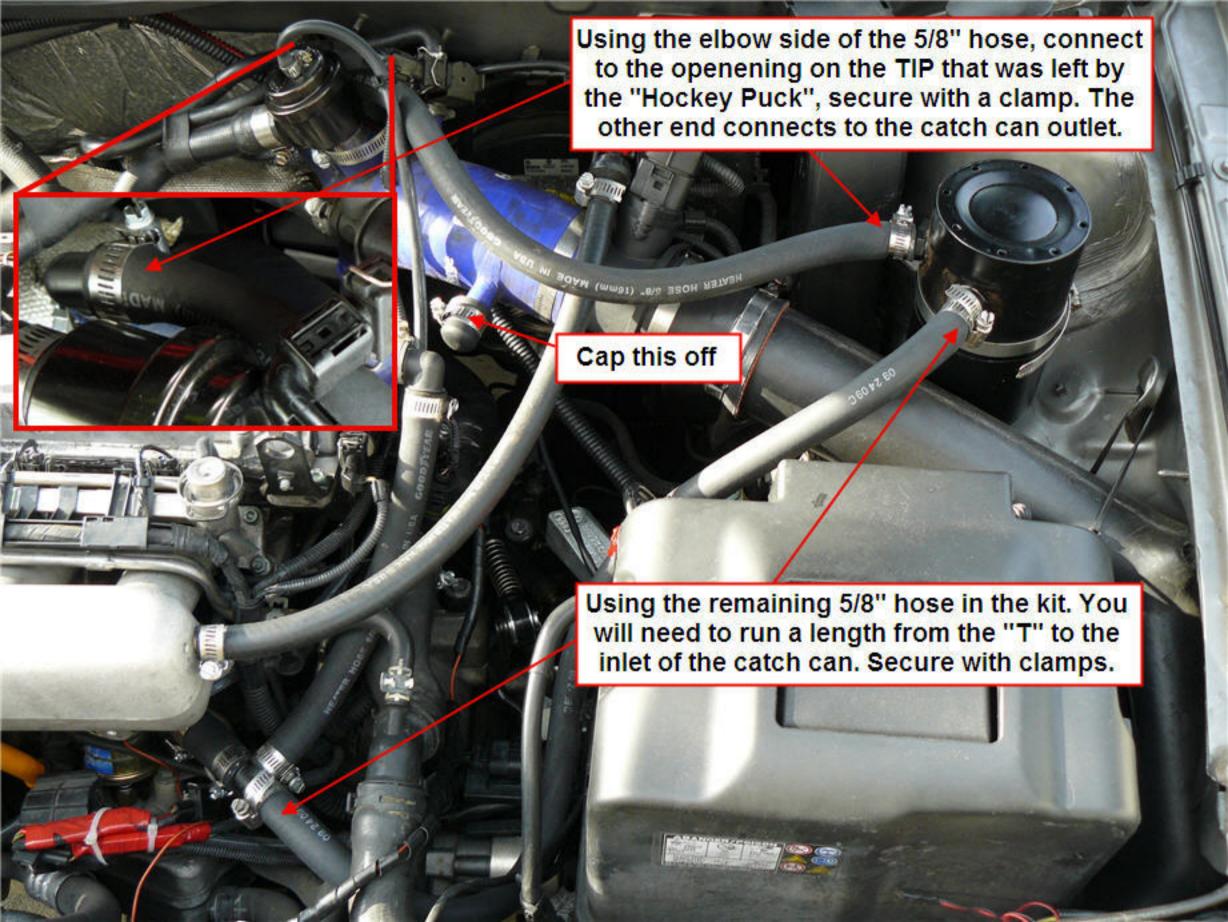


Using the included 5/32" vac line, run from you diverter to one of the open posts under the intake manifold (cut the excess). Secure with a mini clamp.

Use the remaining 5/32" vac line, run a new line from your fuel pressure regulator to the second open post



For cars with boost gauges, use/reuse a "T" to run a line to the gauge.

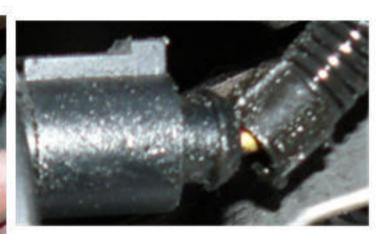


It's resistor time! This next part will be much more reliable if you solder the wires to the resistor, however there are other ways of doing it. Important thing is that the resistor "bridges" the wires and is protected from the elements. You should have 4 empty harnesses, two under the intake manifold, one near the coolant ball, and one under the car near the oil filter.

NOTE: The large plug for the SAI pump does NOT need a resistor!







You will need to pull back the plastic wire covering on the harnesses to expose the wires. I used a wire stripper to expose a section of each wire, staggered as to accomodate the size of the resistor. Solder in place. Wrap the harness in electrical tape and zip tie out of the way. Do this for all 4.





Final Steps:

- Fill coolant reservoir with G12
- Start car and let it run, it may run a little different for a few moments, but will clear up soon
 - Shut car down, check coolant reservoir, most likely you will need to add more
 - Re-start the car and check for leaks
 - If you have Vag-Com, clear any codes you have