



## Parts List

- (1) Stainless Steel Mounting bracket
- (2) Air Oil Separator
- (2) Billet Clamps
- (2) Lengths of 1/2" Hose
- (2) Lengths of 3/8" Hose
- (2) 3/8" 90 Degree Barbed Fittings
- (2) 1/2" 90 Degree Barbed Fittings
- (1) Throttle Body Gasket
- (4) 1/4-20x5/8 SHCS
- (2) 1/4-20x5/8 HHCS
- (2) 1/4-20 Nylock Nuts
- (1) 1/2" Coupling
- (2) Hose Clamps
- (2) 1/4-20x1 SHCS
- (2) 3/8" Straight Barbed Fittings
- (2) Ball Valves

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Step 1: Disconnect wiring plugs shown in illustrations.  
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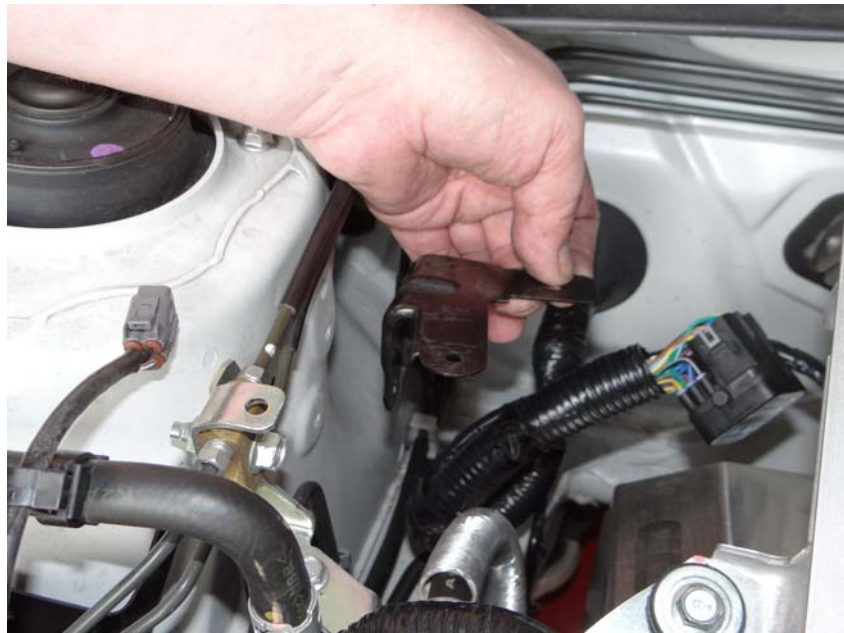
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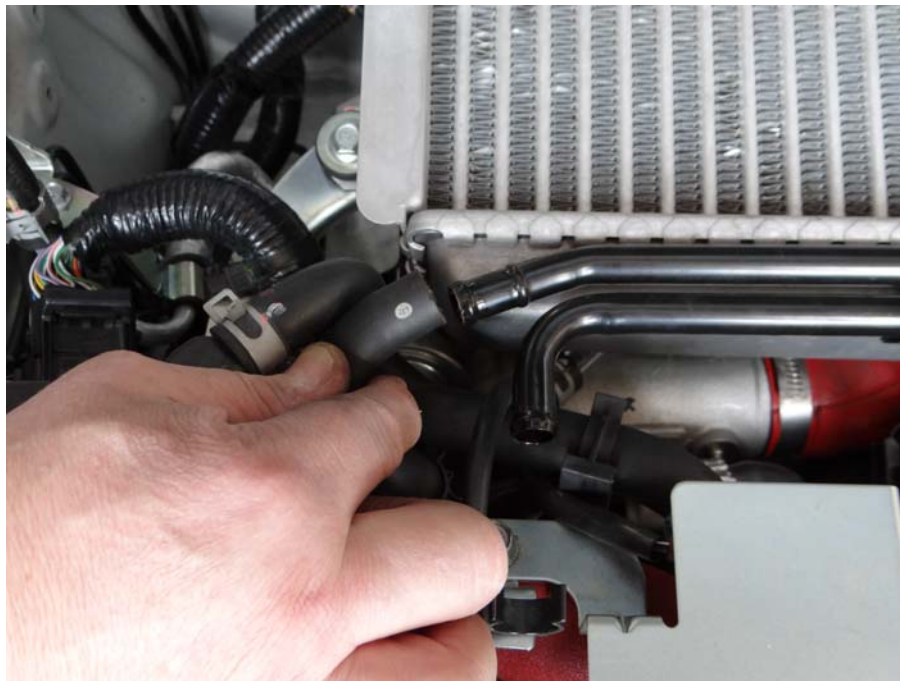
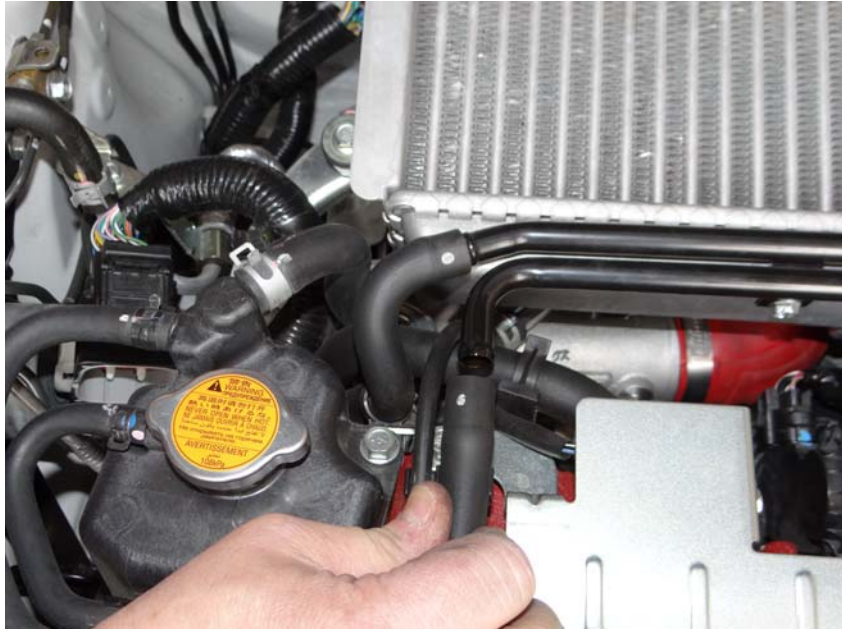


Step 2: Remove wiring harness plug bracket from vehicle.

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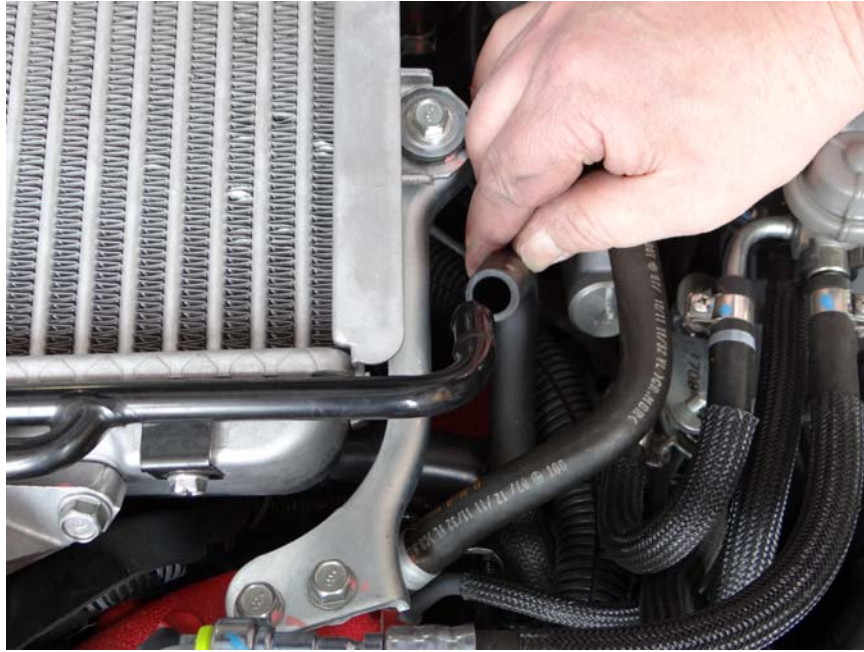


Step 3: Remove vacuum lines from cross over tube on passenger's side.

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Step 4: Remove vacuum line from cross over tube on driver's side.



Step 5: Remove relief valve mounting bolts from intercooler.

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Step 6: Loosen Throttle body coupling clamps.

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Step 7: Loosen intercooler inlet elbow clamp.



Step 8: Remove intercooler mounting bolts.

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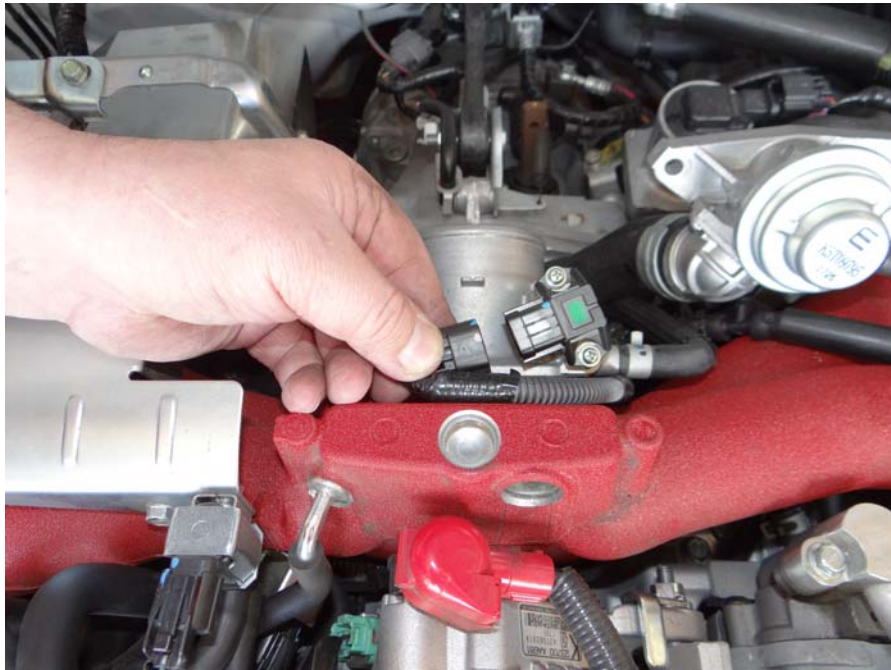


Step 9: Remove intercooler from vehicle.

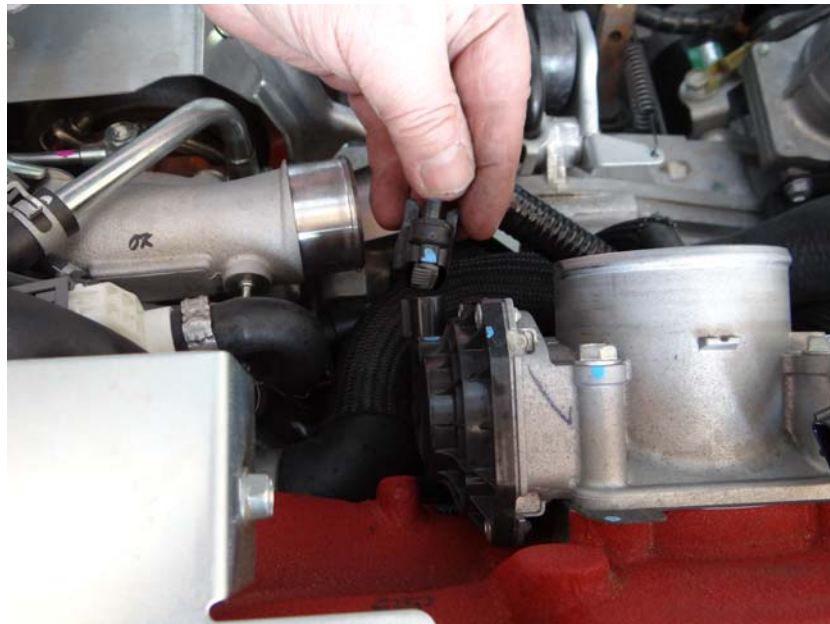
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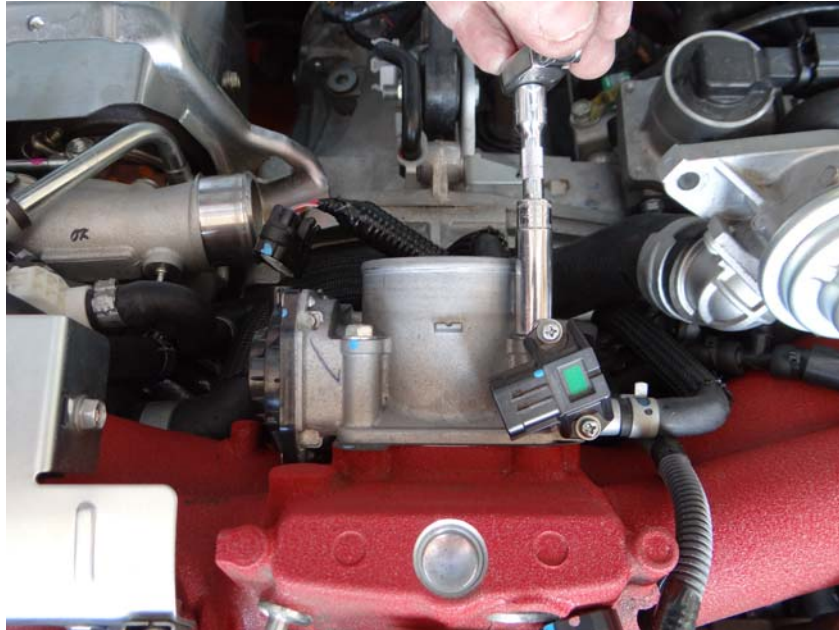
Step 10: Remove all wiring from throttle body.



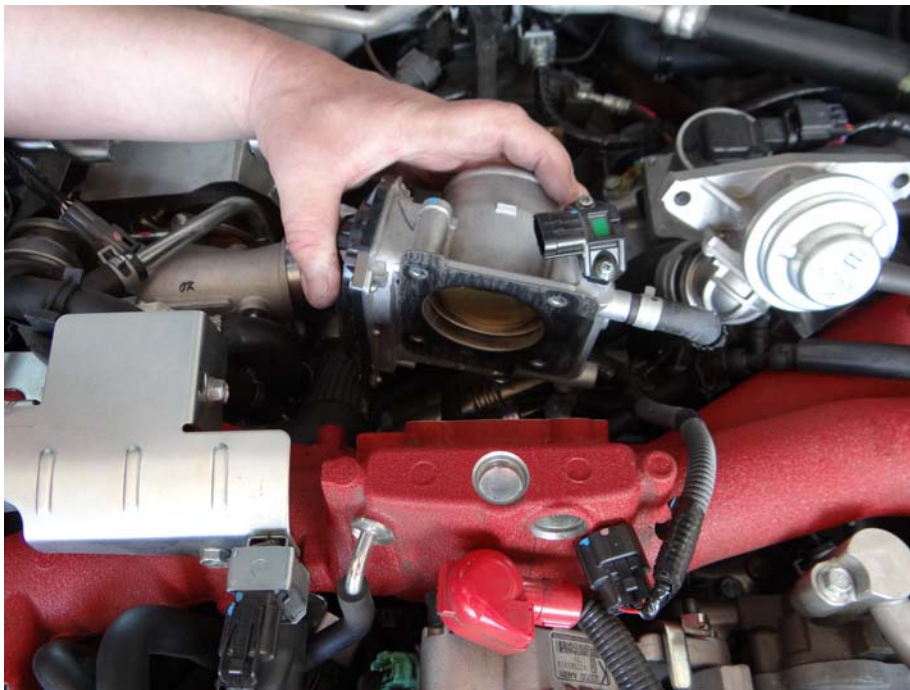
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Step 11: Remove throttle body mounting bolts.

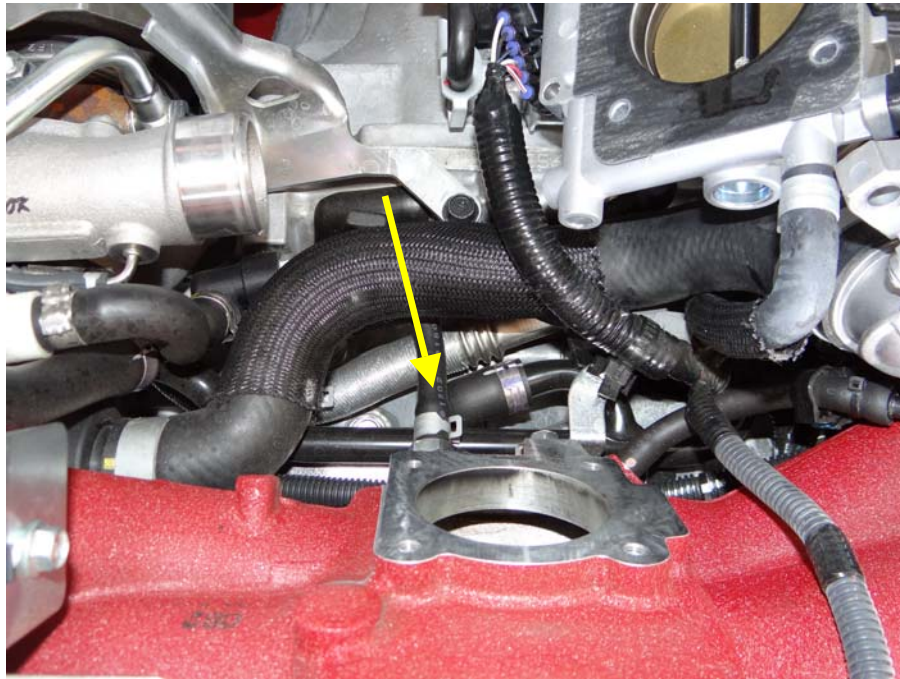


Step 12: Remove throttle body from intake.

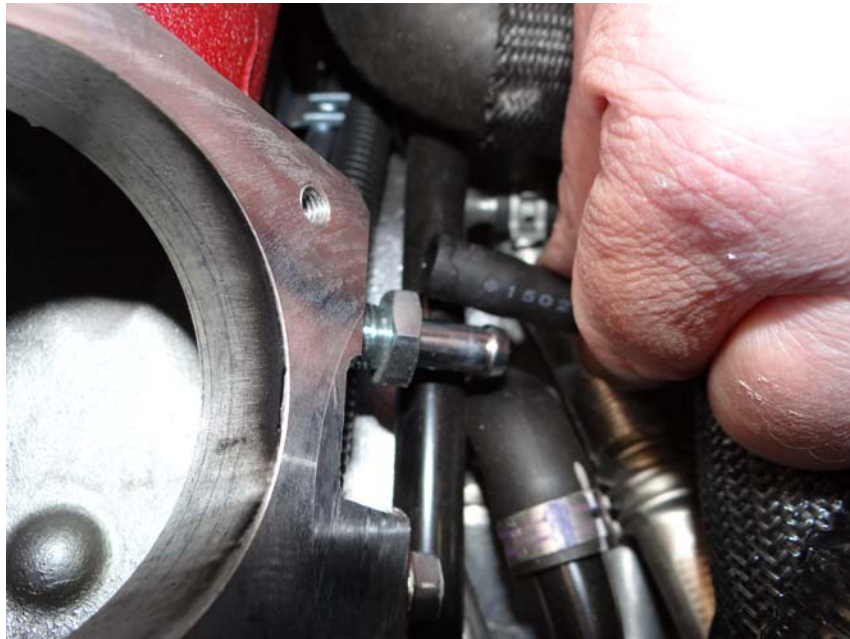
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Step 13: Locate PCV line located under throttle body.

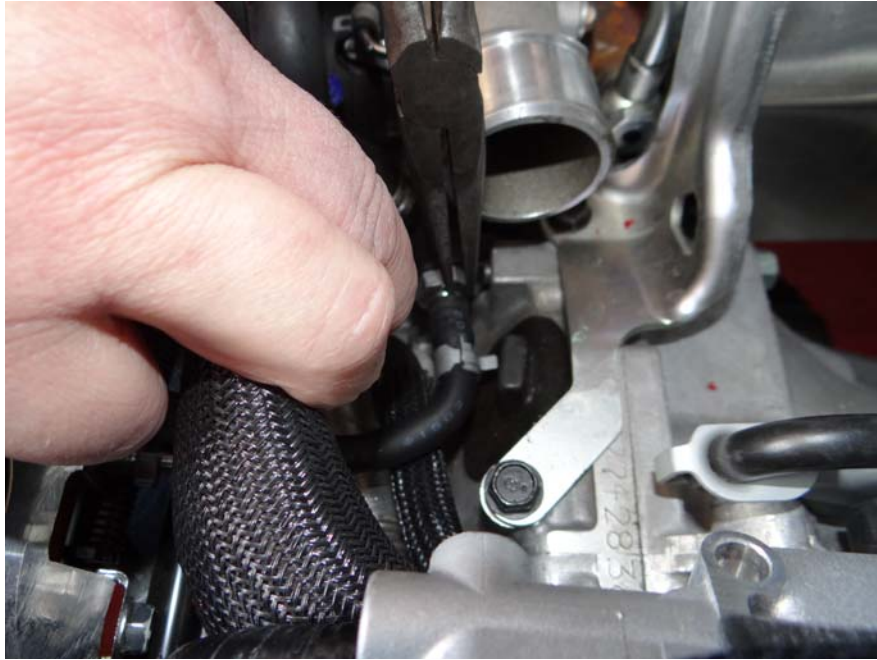


Step 14: Remove PCV line from PCV valve.

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Step 15: Locate other end of PCV line and remove from vehicle.



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Step 16: Using 36" long 3/8 I.D.hose and clamp insert over PCV line nipple shown.



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Step 17: Route 3/8 hose as shown to firewall and label hose #1.

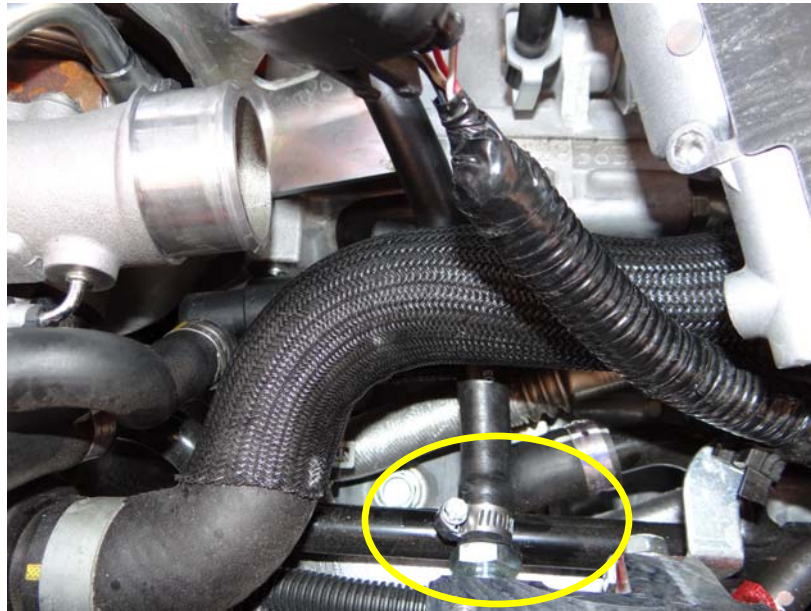


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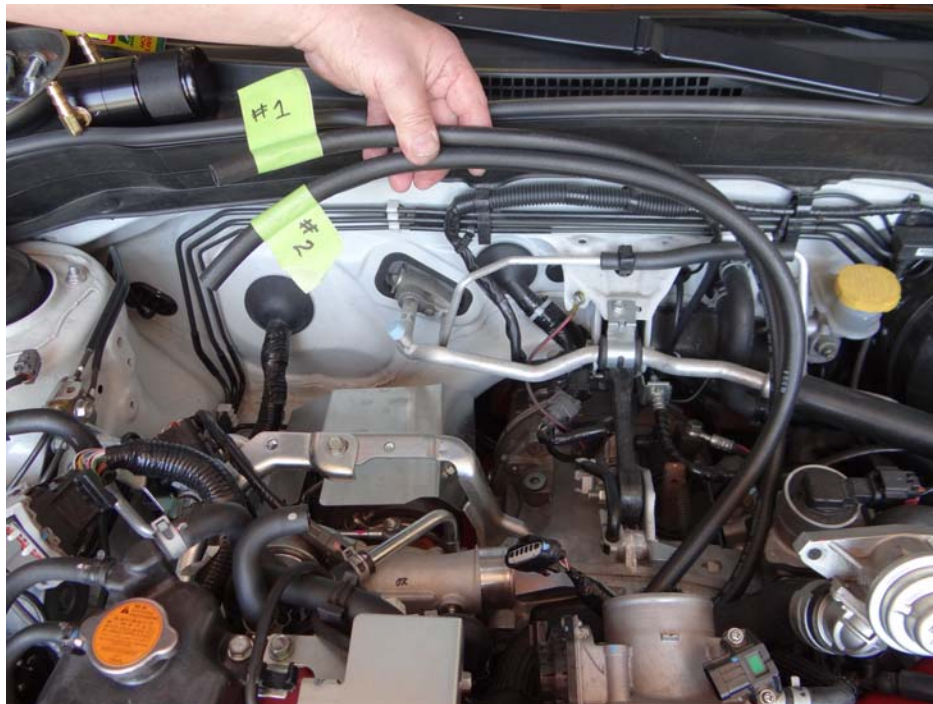
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Step 18: Using 36" long 3/8 I.D.hose and clamp insert over PCV line nipple shown.

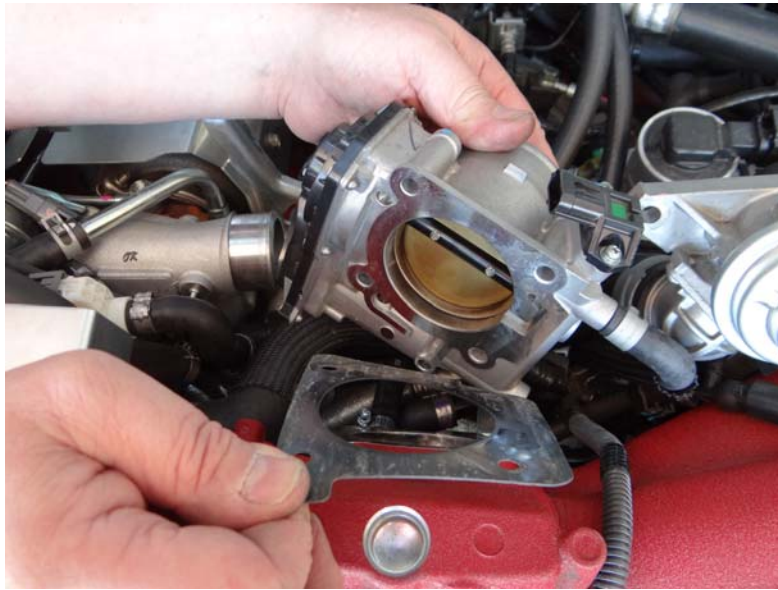


Step 19: Route 3/8 hose as shown to firewall and label hose #2.

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Step 20: Remove throttle body gasket.



Step 21: Replace old throttle body gasket with new gasket provided in kit.

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Step 22: Re-install throttle body.

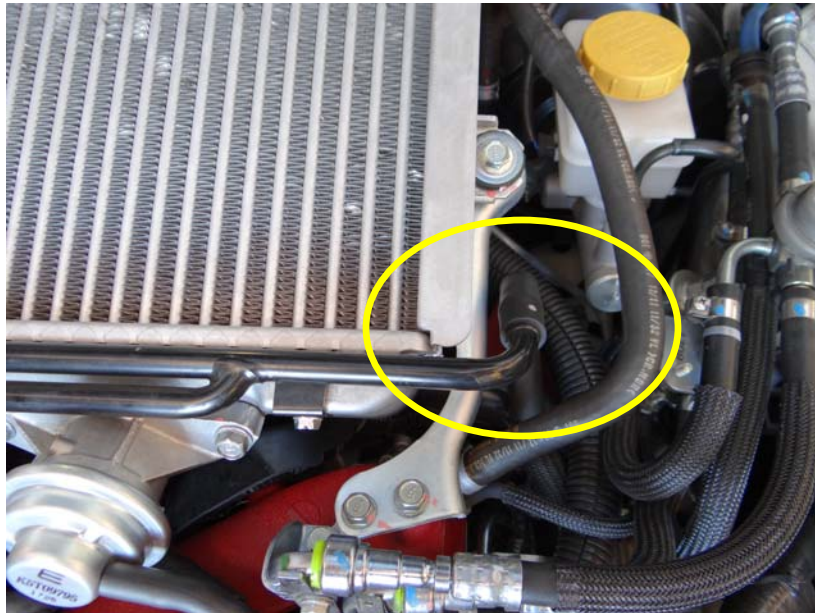


Step 23: Re-install intercooler.

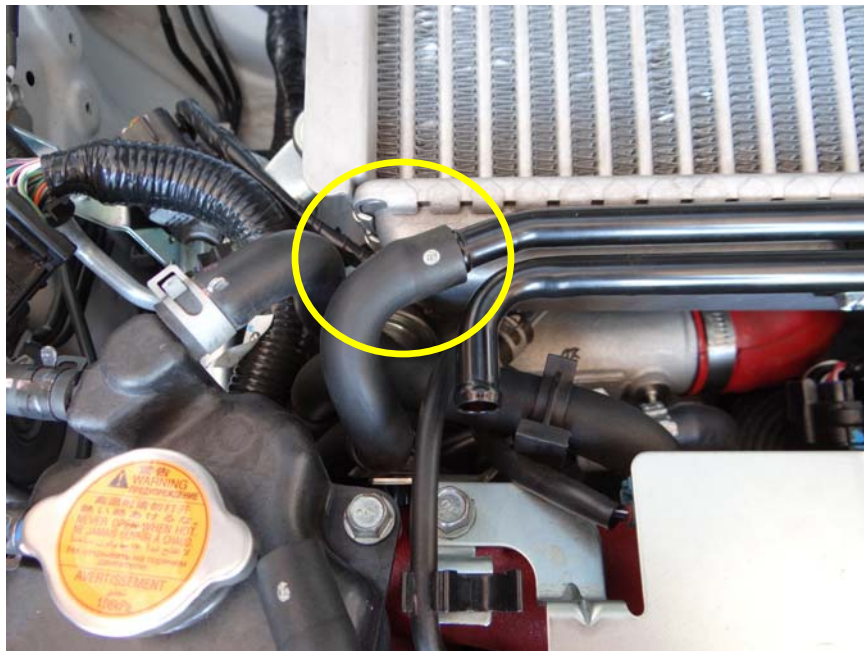
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Step 24: Reinstall vacuum line to cross over tube on driver's side.



Step 25: Reinstall vacuum line shown to cross over tube on passenger's side.

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Step 26: Locate vacuum line previously removed in step 3, insert 1/2" coupling.

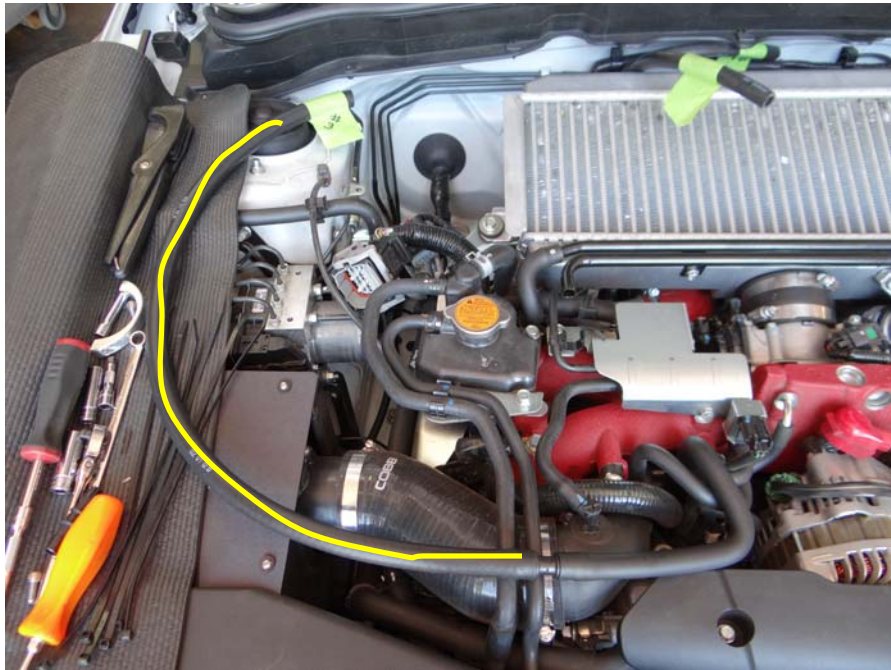


Step 27: Using 32" long 1/2 I.D.hose insert over 1/2" coupling.

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Step 28: Route 1/2" hose as shown and label hose # 3.

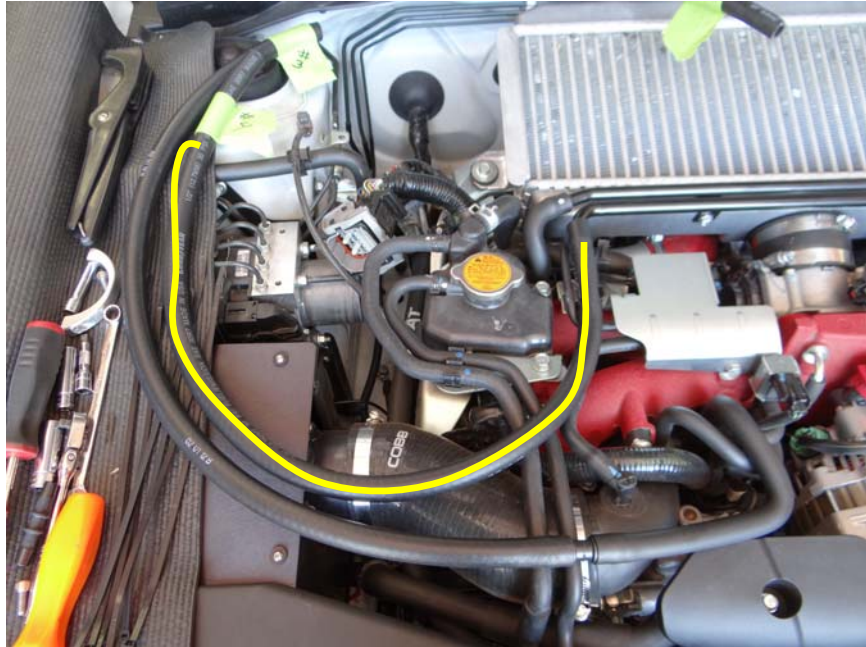


Step 29: Using 32" long 1/2 I.D.hose insert over crossover tube nipple as shown.

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Step 30: Route ½" hose as shown and label hose # 4.



Step 31: Install wiring harness bracket previously removed from vehicle to stainless mounting bracket using (2) ¼-20 HHCS and (2) ¼-20 nylock nuts.

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Step 32: Install billet clamps to stainless mounting bracket using (4) 1/4-20x5/8 SHCS, install (2) 1/4-20x1 SHCS in billet clamps.

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Step 33: Assemble (1) Air Oil Separator as shown using (2) 3/8" barbed fittings using Teflon tape.



Step 34: Assemble ball valve and 3/8 straight barbed fitting in orientation shown using Teflon Tape.

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Step 35: Assemble (1) Air Oil Separator as shown using (2) 1/2" barbed fittings using Teflon tape.

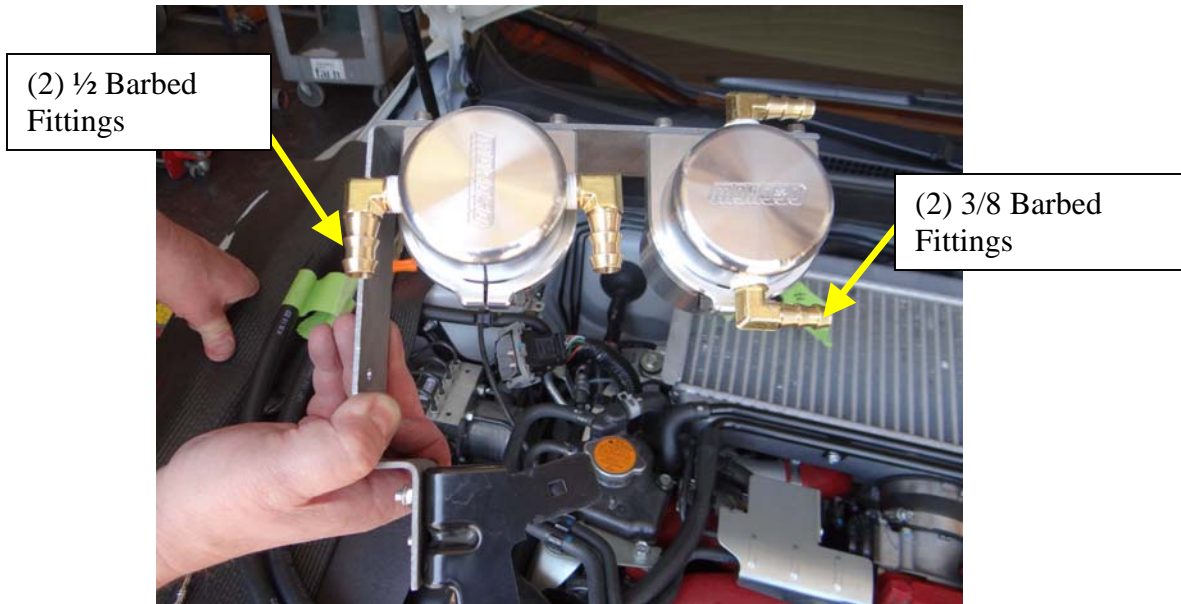


Step 36: Assemble ball valve and 3/8" straight barbed fitting in orientation shown using Teflon Tape.

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Step 37: Insert Air Oil Separators into billet clamps in the orientation shown.



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Step 38: Install assembly into vehicle using mounting bolts previously removed.



Step 39: Install assembly in vehicle using wiring harness bracket location and mounting hardware previously removed.

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Step 40: Route hose #1 to Air Oil Separator mark and trim.



Step 41: Install hose #1 to Air Oil Separator.

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Step 42: Route hose #2 to Air Oil Separator, mark, trim and install.



Step 43: Route hose #4 to Air Oil Separator, mark, trim and install.

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Step 44: Route hose #3 to Air Oil Separator, mark, trim and install.



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### **Installation Complete**

Draining of Air Oil Separator is needed; this will depend on driving conditions (i.e.) normal day to day driving check every 1,000 miles until a baseline is established. A good baseline is to drain the Air Oil Separator when it is about HALF full. This will vary with temperatures (cold winters vs. hot summers). For track usage Air Oil Separator will need to be drained after every outing.

There are several different methods to draining Air Oil Separator. The first and simplest method is to place a cup or MOROSO part # 65805 under drain elbow and open ball valve, once draining is complete close ball valve. The second method is to run a length of 1/2" hose from elbow to under carriage of vehicle and place drain pan under vehicle at this time open ball valve, when draining is complete close ball valve. This hose may also be permanently installed for future draining.

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