



PARTS LIST

- (2) Air Oil separator
- (2) Billet Clamp
- (1) Stainless Mounting Bracket
- (8) 1/4-20x5/8 SHCS
- (2) 1/4-20X1 HHCS
- (2) 1/4-20 Nylock Nuts
- (2) 1/2 x 90 Barbed Fitting
- (1) 3/8 x 90 Barbed Fitting
- (1) 3/8 Straight Barbed Fitting
- (1) 3/8 Coupling
- (1) 1/2 x 5/8 Coupling
- (1) 1/2 x 1/2 Coupling
- (1) Vacuum Cap
- (1) 1/2 Tee
- (1) 21" Long 3/8 I.D. Hose
- (1) 31" Long 3/8 I.D. Hose
- (1) 58" Long 1/2 I.D. Hose
- (1) 4 1/2" Long 1/2 I.D. Hose
- (1) 13" Long 1/2 I.D. Hose

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08/21/12

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Step 1: Remove intercooler from vehicle.



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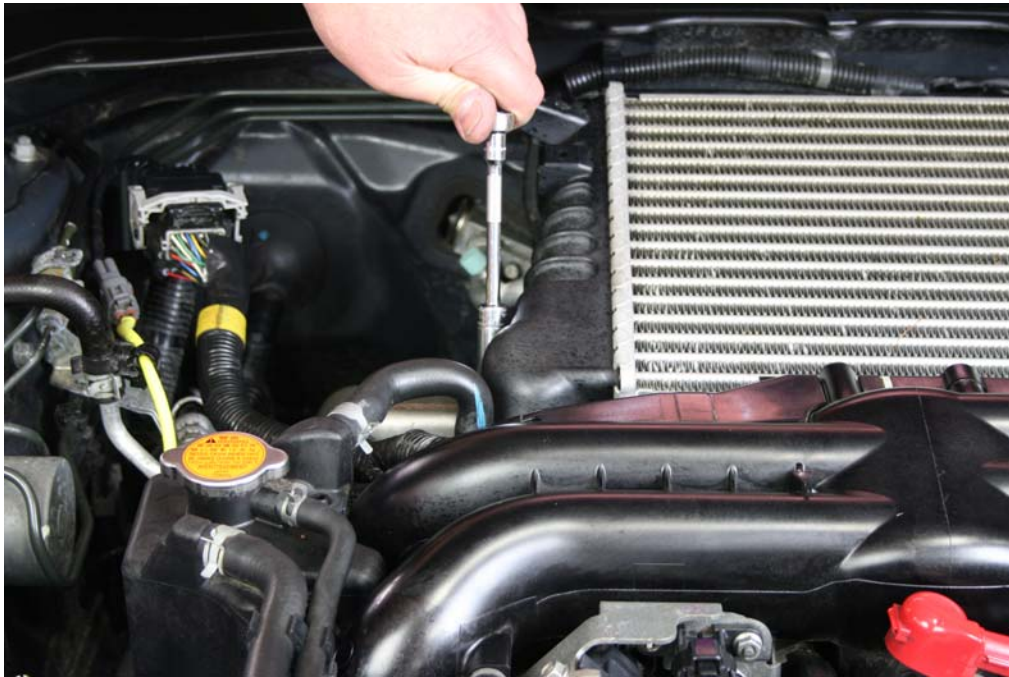


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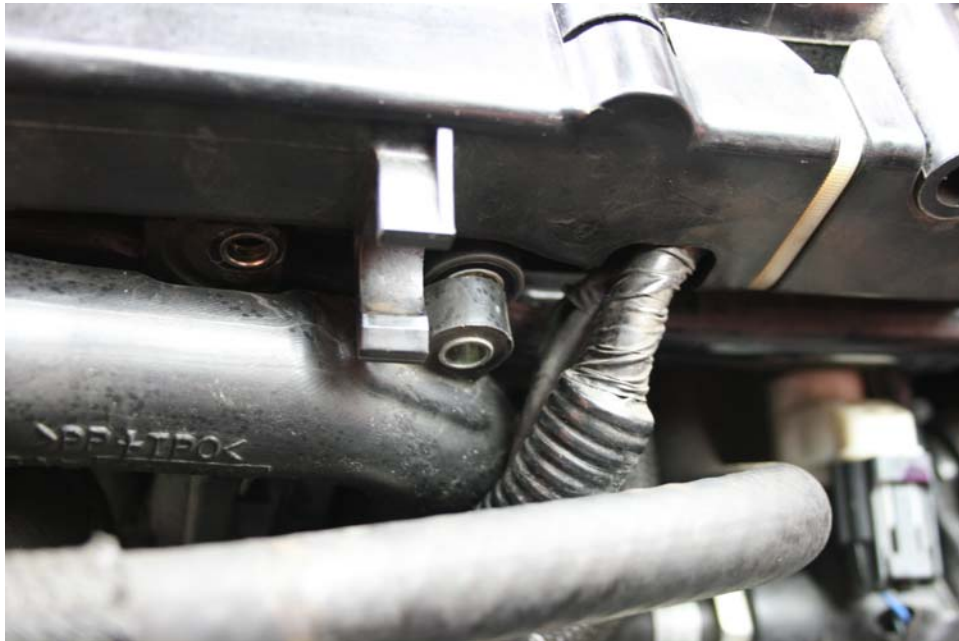
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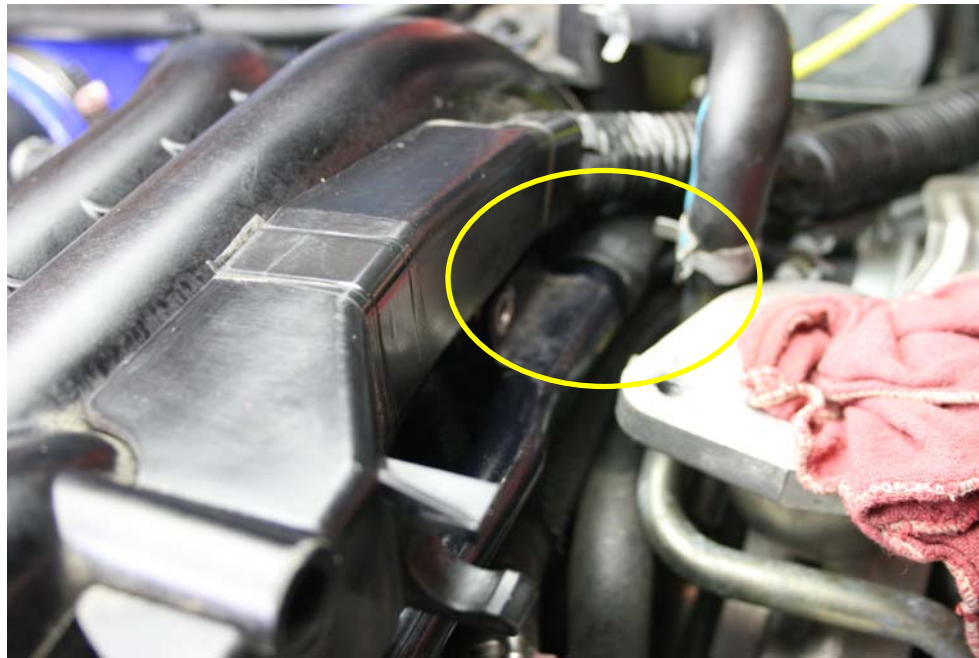


Step 2: Locate valve cover cross over breather tube behind intake and remove mounting bolts.



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Step 3: Locate and remove breather line that runs from cross over tube to passenger side valve cover.

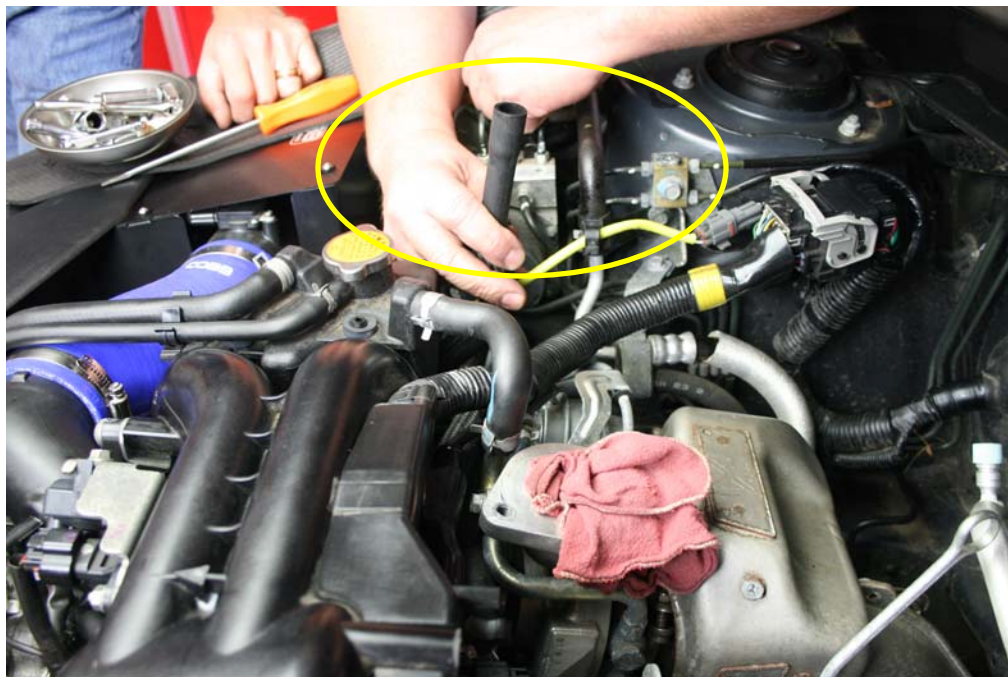
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Step 4: Locate breather line that runs from air intake tube to valve cover cross over tube and remove line as shown.



Solenoids removed for clarity

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Step 5: Gently remove valve cover cross over tube from breather line



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Step 6: Set line aside for use in step 10.

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Step 7: Using cap provided cap valve cover cross over tube nipple removed in step 5.

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Step 8: Locate 1/2 to 5/8 coupling in kit.



Step 9: Insert 1/2 side of coupling into one end of 58" long 1/2 hose.

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Step 10: Insert other end of coupling (5/8) into line removed in step 6.

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Step 11: Reinstall original breather line removed in step 5 and 6 to nipple on air intake tube. (original location)



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Step 12: Label other end of line #1, set aside.



Step 13: Reinstall valve cover cross over tube mounting bolts.

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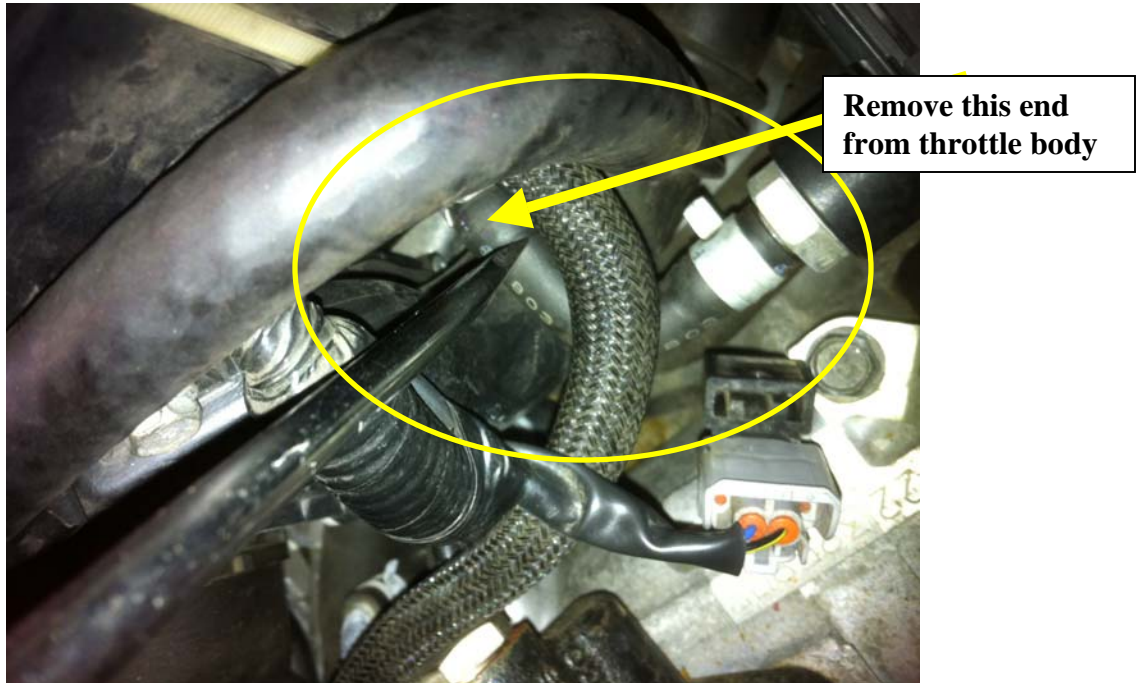
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Step 14: Reinstall any r components that had been removed for ease of installation.

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Step 15; Locate crank case vent line running between block and throttle body. (This line is locate on back side of block)



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Step 16: Loosen clamp and turn crank case vent line back towards firewall.



Step 17: Insert 3/8 coupling into one end of 21" long 3/8 hose.
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Step 18: Insert other end of 3/8 coupling into crank case vent line and reinstall clamp.



Step 19: Label other end of line #2, set aside.

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Step 20: Insert 31" long 3/8 hose over throttle body nipple.



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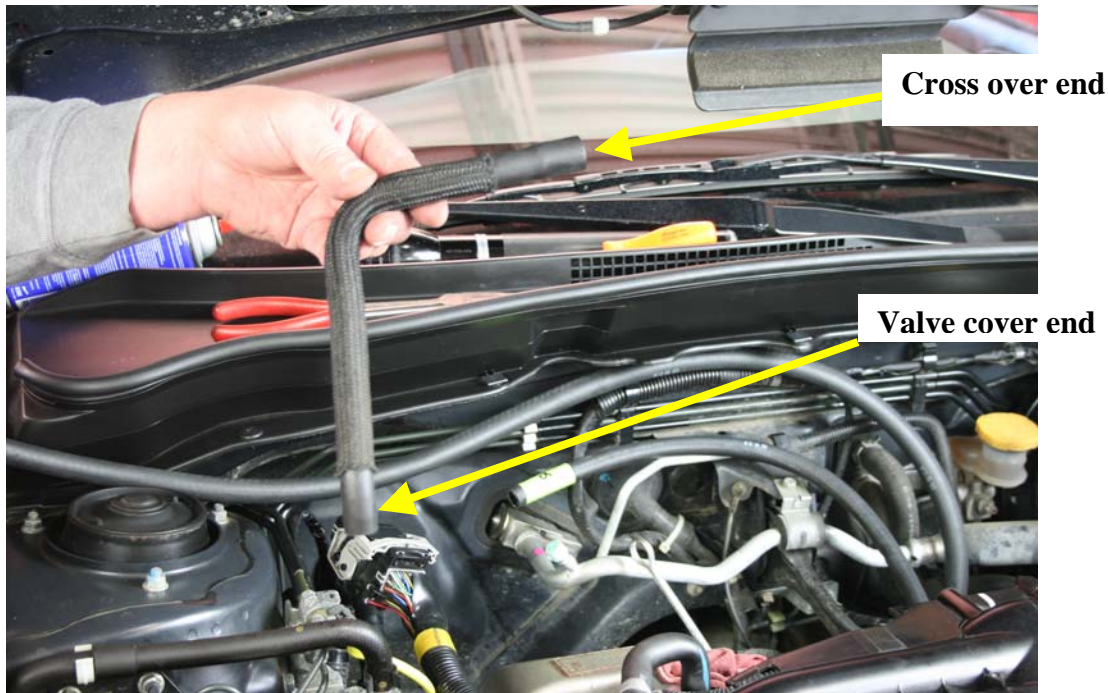
Step 21: Label other end of line #3, set aside.



Step 22: Remove vent line from passenger side valve cover.

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Step 23: Remove outer protector from vent line.

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Step 24: Cut cross over end of tube at 2 1/8".



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Step 25: Insert ½ coupling into end of 4 ½ long ½ hose.



Step 26: Insert ½ side of line previously cut off in step 24 as shown.

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Step 27: Insert $\frac{1}{2}$ tee into other end of $4 \frac{1}{2}$ long hose as shown.
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Step 28: Insert remainder of stock hose to 1/2 tee as shown.

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Step 29: reinstall outer protector over stock line.

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Step 30: Insert 13" long 1/2" hose over remaining nipple on tee as shown.



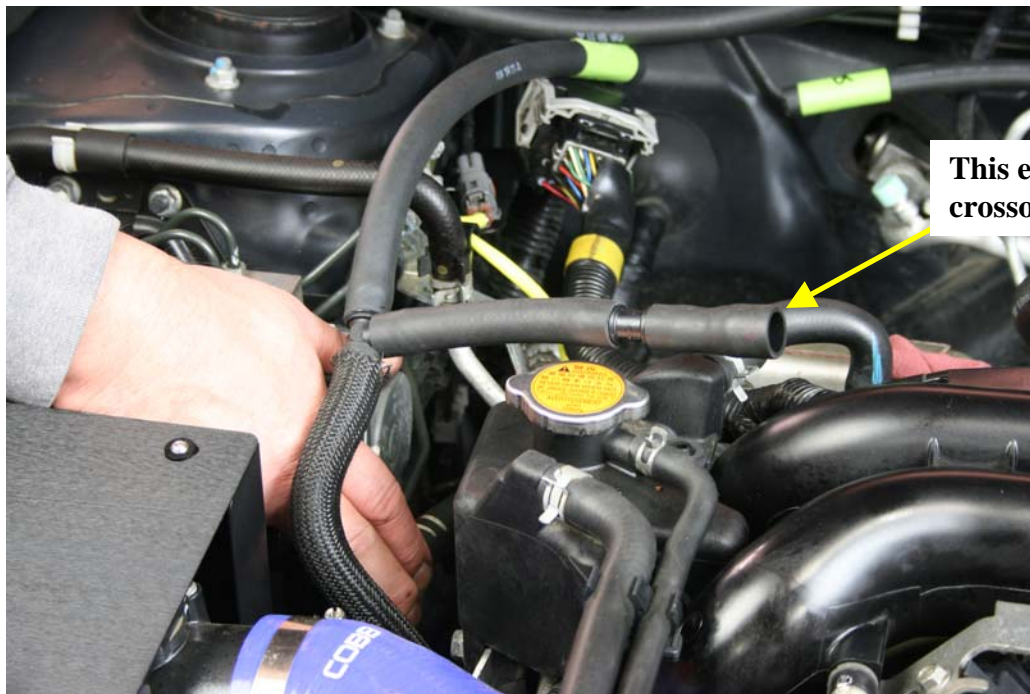
Step 31: Label other end of 13" hose #4.

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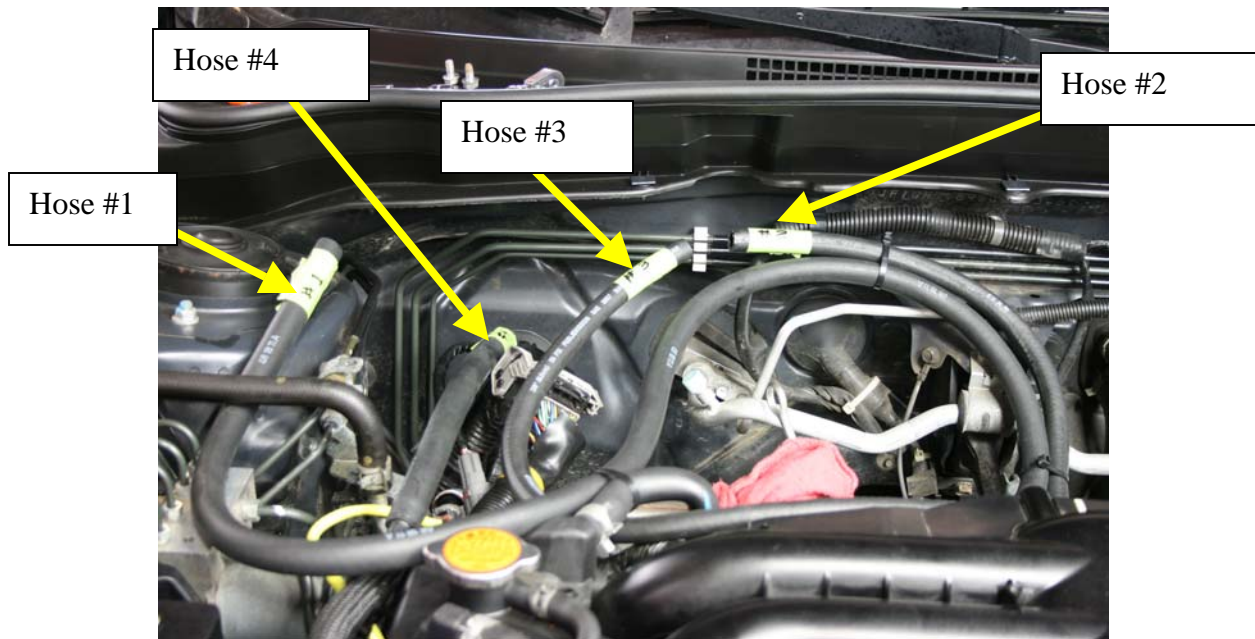
Step 32: Insert stock hose over nipple on valve cover.



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Step 33: Install 5/8" end of hose over crossover tube nipple.



Final hose routing shown with intercooler removed for clarity.

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Step 34: Reinstall intercooler.



Step 35: Remove wire harness plug as shown from mounting bracket.
(Locking tab on under side of harness plug)

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Step 36: Unplug small 4 pin connector as shown.



Step 37: Unclip wire retainer from hose as shown.

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Step 38: Remove plug from bracket.



Step 39: Locate and remove bracket mounting hardware.

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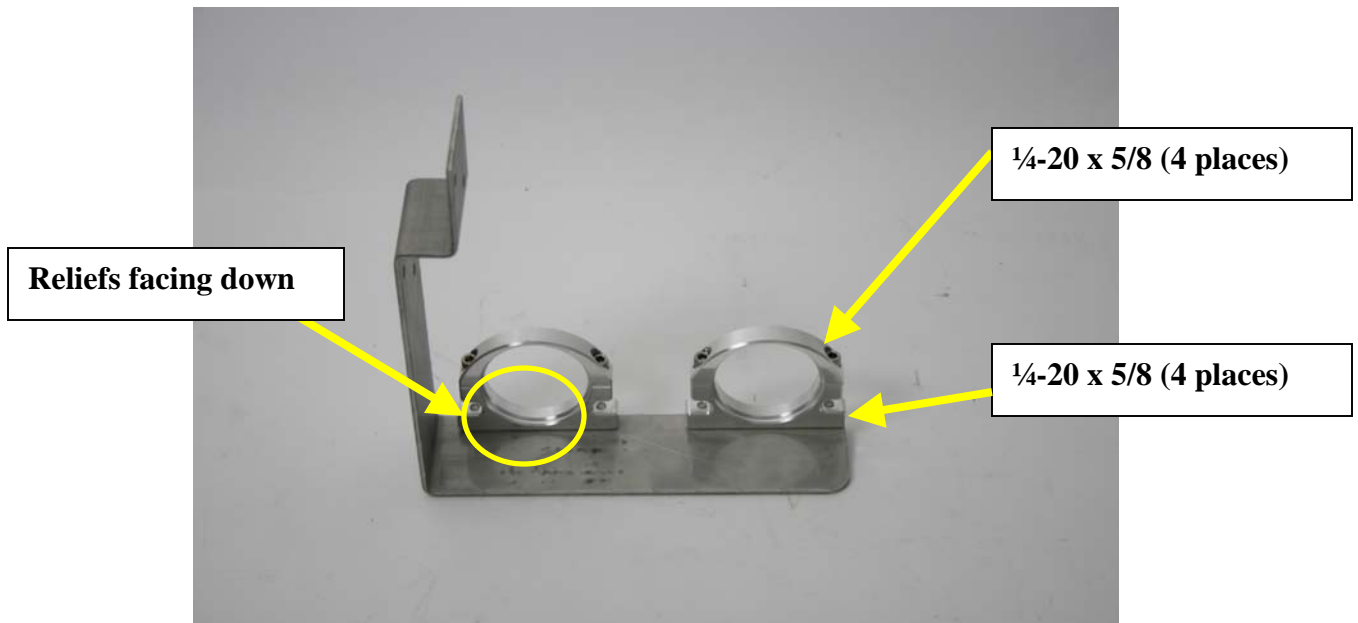
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Step 40: Remove bracket from vehicle and set aside.

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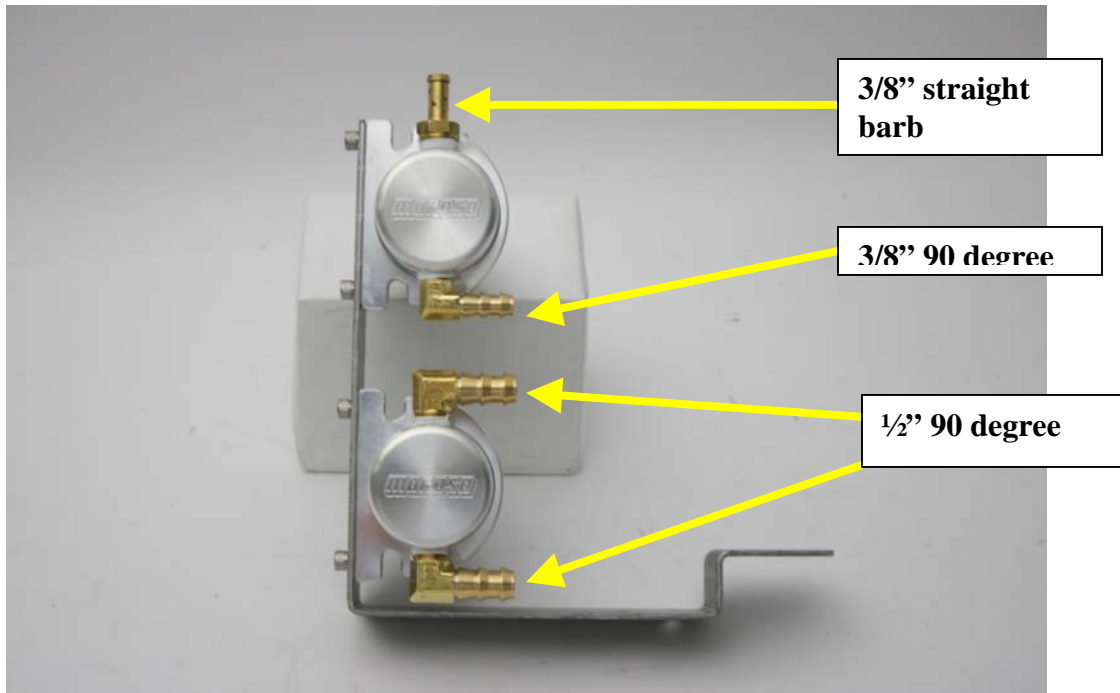
Step 41: Assemble billet clamps to stainless mounting bracket as shown with reliefs on billet clamps facing down.



Step 42: Assemble barbed fittings into Air Oil Separators using Teflon tape and insert into billet clamps 1" from top of Air Oil Separator to top of billet clamp.

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Make certain bottom cups can be removed with billet clamps tightened, if needed adjust Air Oil Separator in billet clamp.

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Step 43: Install wiring harness bracket to Air Oil Separator bracket using supplied Hex bolts and nylock nuts as shown.



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Step 44 Install Air Oil Separator assembly s shown using stock bracket hardware.



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Step 45 Reinstall wire harness plug on bracket.



Step 46 Reinstall 4 pin plug on bracket and reconnect plug.

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Step 47: Install hose #2 over straight barb as shown.



Step 48: Wire tie hose #1 to inter cooler.

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Step 49: Route hose #3 to Air Oil Separator as shown and install over 3/8" 90 degree barb.



Step 50: Route hose #4 from valve cover crossover hose assembly to 1/2" 90 degree barb.

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Step 51: Route hose # 1 to Air Oil Separator as shown and install over 1/2" 90 degree barb.



Step 52: Remove hose labels.
Installation Complete

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To empty Air Oil Separator un-screw bottom cup, dump collected oil / fluids and re-install.

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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