85487 Air Oil Separator kit is designed for L99 with Automatic Transmission and LS3 with Standard Transmission. Determine what application applies and follow either "L99 Automatic Transmission" or "LS3 Standard Transmission" directions.

Parts List

(1) TANK BODY
(1) BILLET CLAMP
(1) BILLET MOUNT
(1) BALL VALVE
(1) 90 DEGREE DRAIN
(1) STAINLESS STEEL BRACKET
(2) 90 DEGREE BARBED FITTINGS
(1) LENGTH OF 3/8" X 2FT HOSE
(1) LENGTH OF 3/8" X 5FT HOSE
(1) DRAIN CAP
(3) ¼ X 20 SHCS X 5/8
(1) ¼ X 20 SHCS X 1
(1) 6MM STUD
(2) HOSE CLAMPS

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2010 and up Camaro with L99 - Automatic Transmission

Step 1: Remove oil fill cap

Step 2: Remove intake cover

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Step 3: Replace oil fill cap

Step 4: Locate PCV line on manifold behind throttle body

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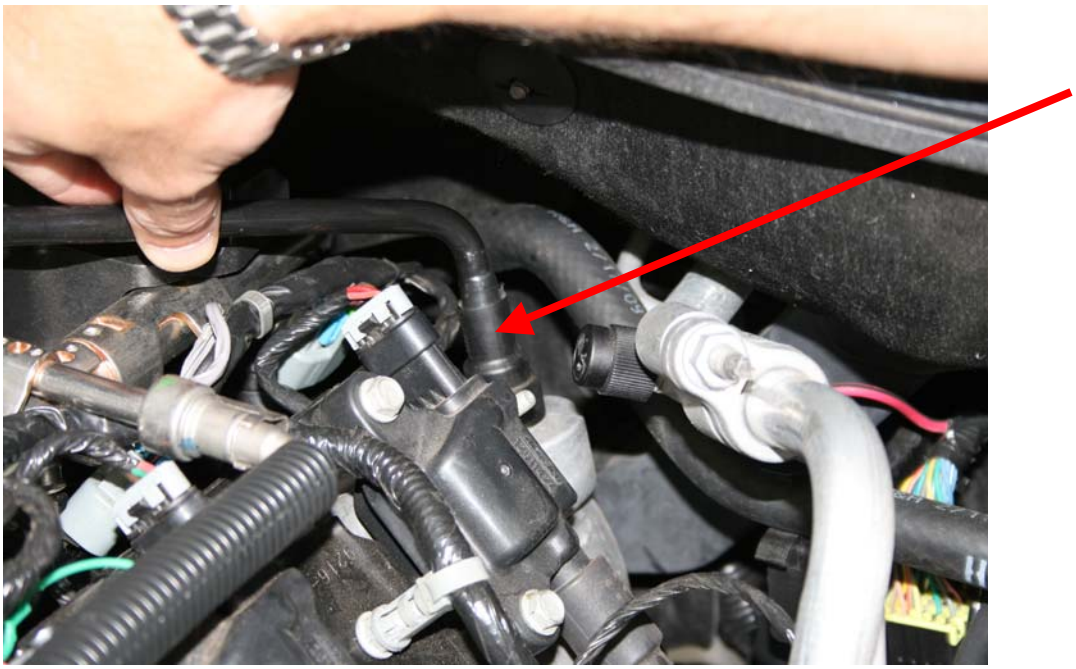
Step 5: Remove PCV line from nipple



Step 6: Locate other end of PCV line, on rear of drivers side valve cover

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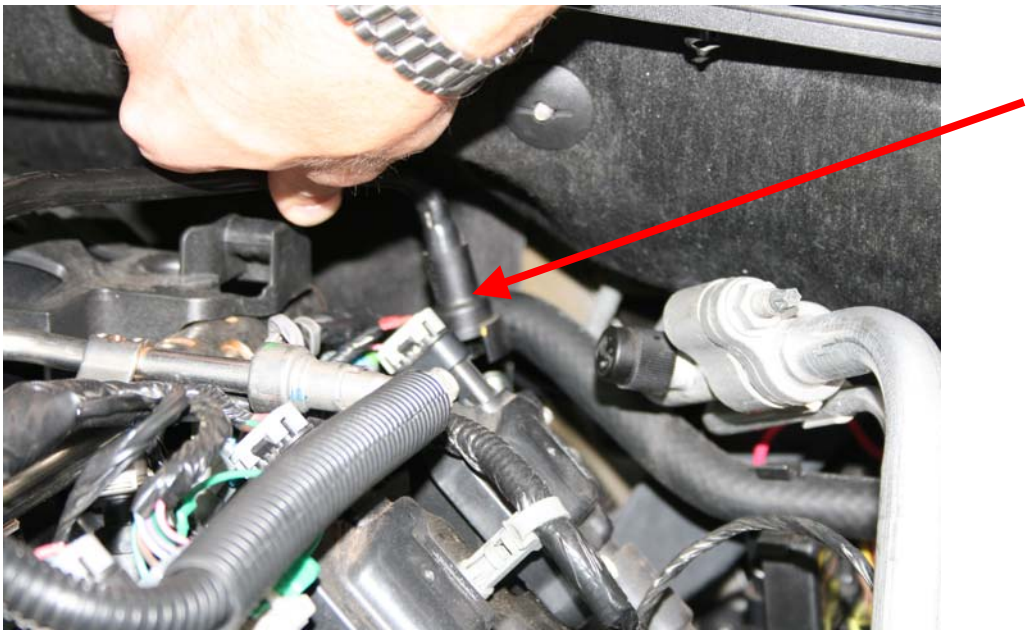

Step 7: Remove this end of PCV line from valve cover

Step 8: Remove PCV line from vehicle

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Step 9: Locate radiator, mounting bolt on passenger side and remove

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Step 10: Assemble air oil separator as shown, apply Teflon tape to all fittings

Step 11: Install and tighten 6mm stud into billet mount as shown (note billet mount contains metric and standard threads, thread stud into round end of mount)

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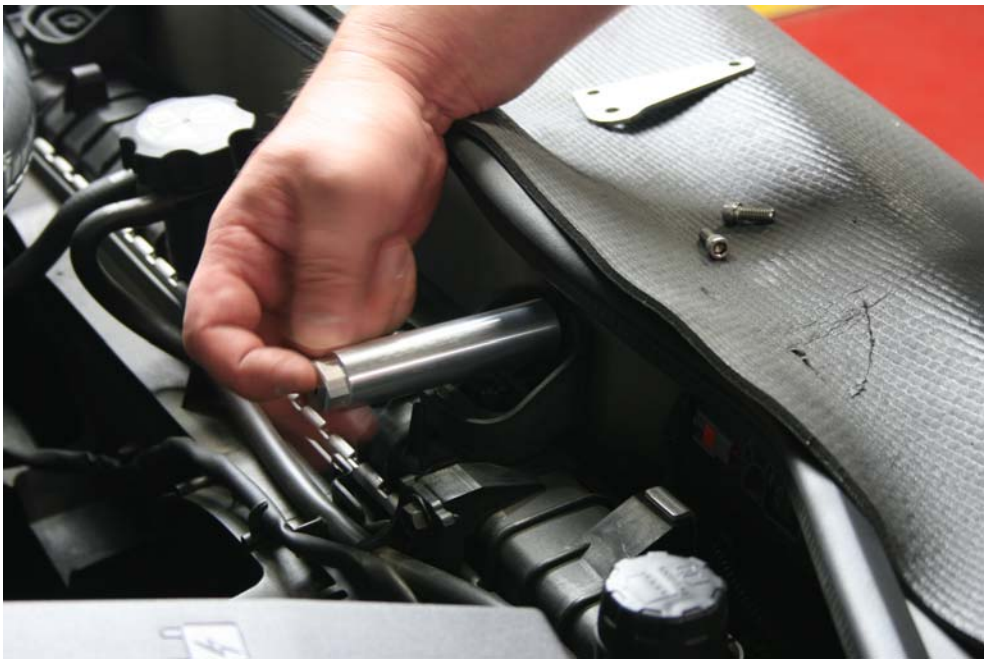

Step 12: Install and tighten billet mount where mounting bolt was previously removed from radiator mount

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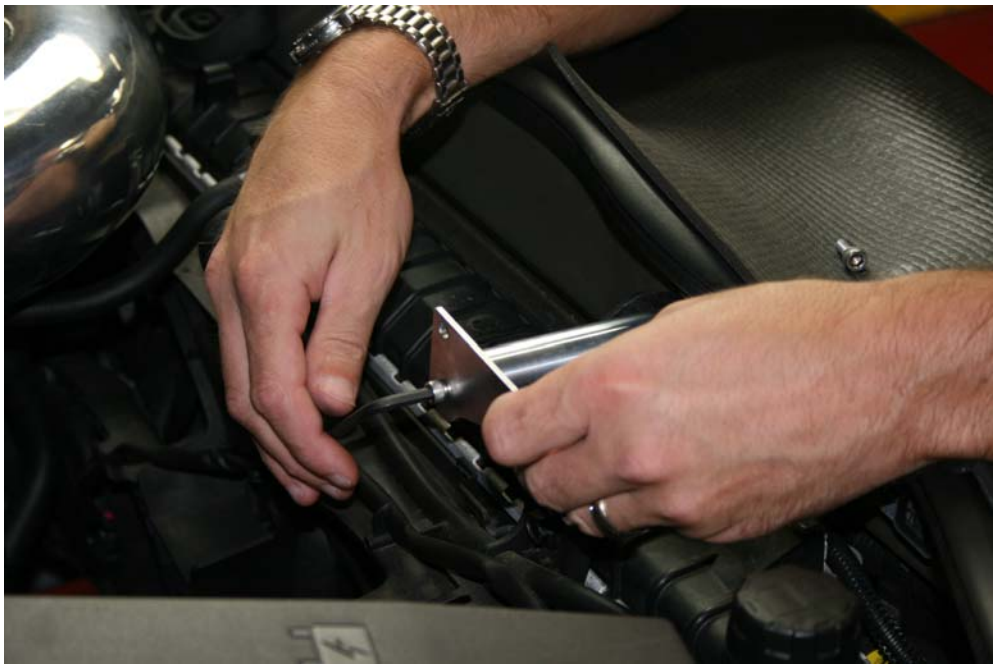

Step 13: Install and tighten stainless bracket to billet mount using 1/4x5/8” socket head cap screw (Blue LOCTITE recommended)

Step 14: Install and tighten billet clamp to stainless bracket using (2) 1/4 x5/8” socket head cap screws

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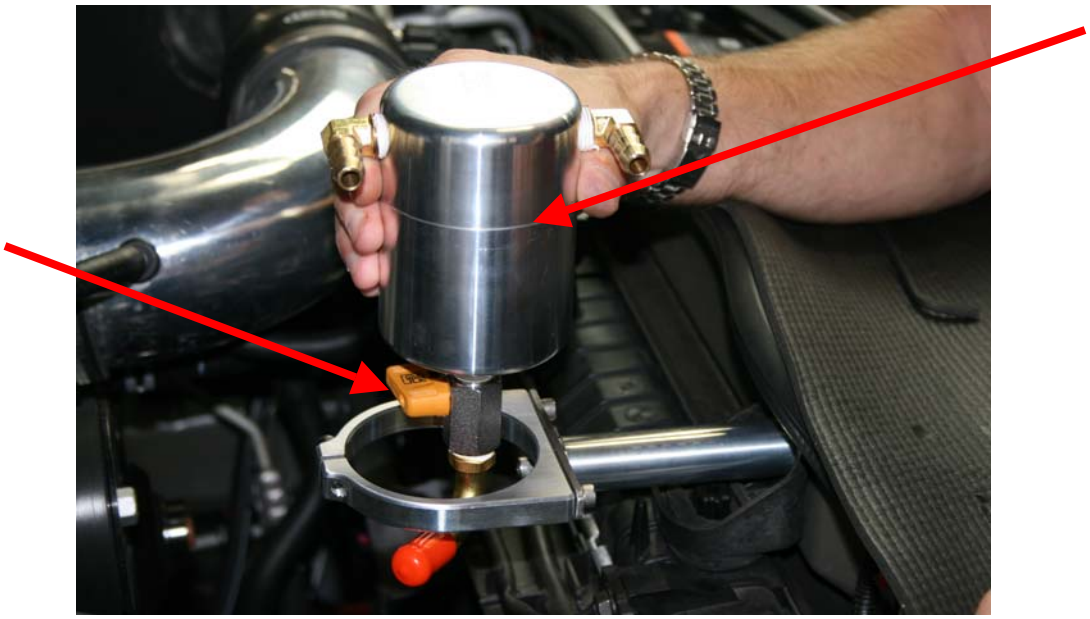

Step 15: Insert air oil separator into billet clamp, line up seam of air oil separator to top of clamp and tighten (Make certain that ball valve is in the closed position)

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Step 16: Place hose clamp over one end of 2ft long hose, push hose over nipple on manifold behind throttle body, and tighten clamp

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Step 17: Route other end of hose to Air Oil Separator as shown

Step 18: Mark and trim hose to length if necessary

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Step 19: Push hose over barbed fitting

Step 20: Route one end of 5 ft hose under heater hoses and behind intake manifold

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Step 21: Continue routing hose behind intake manifold to valve cover nipple

Step 22: Place hose clamp over hose

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Step 23: Push hose over nipple and tighten clamp

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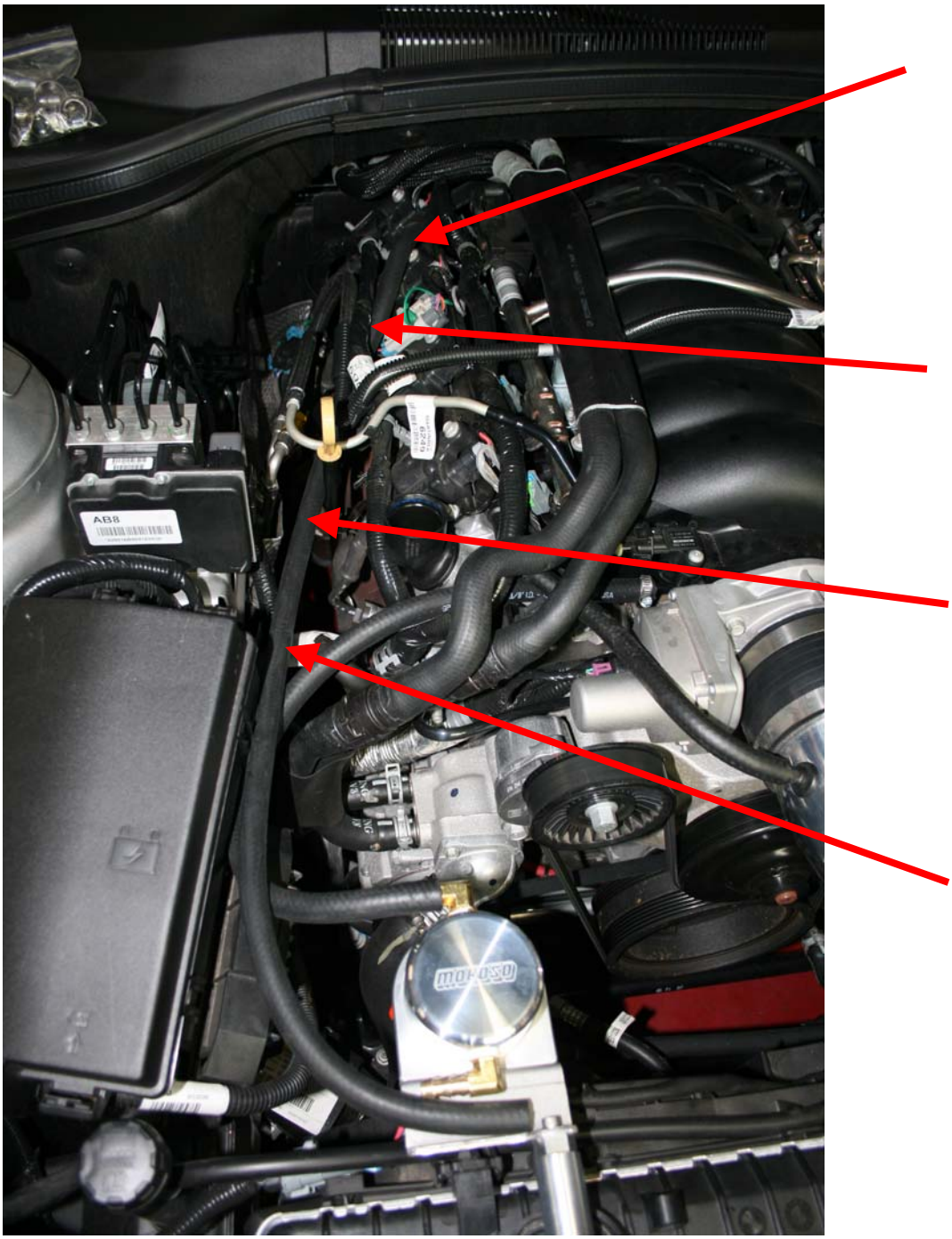

Step 24: Route hose as shown care must be taken around all wiring

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Step 25: Mark and trim hose as necessary

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Step 26: Push hose over barbed fitting

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Step 27: Remove oil fill cap

Step 28: Reinstall intake cover

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Step 29: Reinstall oil fill cap

Installation is complete

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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 ½" 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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2010 and up Camaro with LS3 / Standard Transmission

Step 1: Remove oil fill cap

Step 2: Remove intake cover

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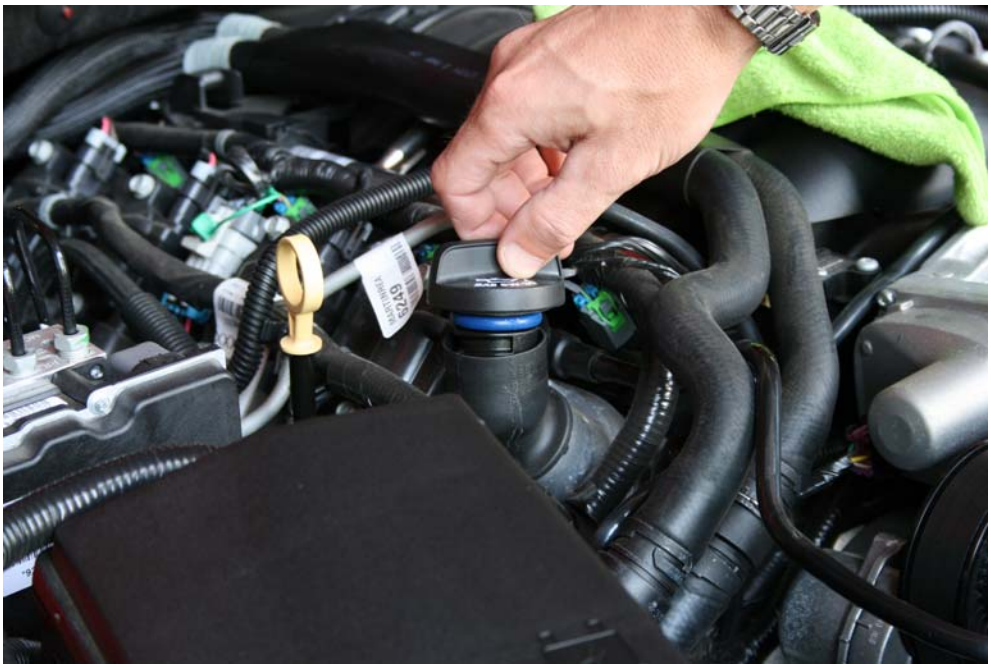
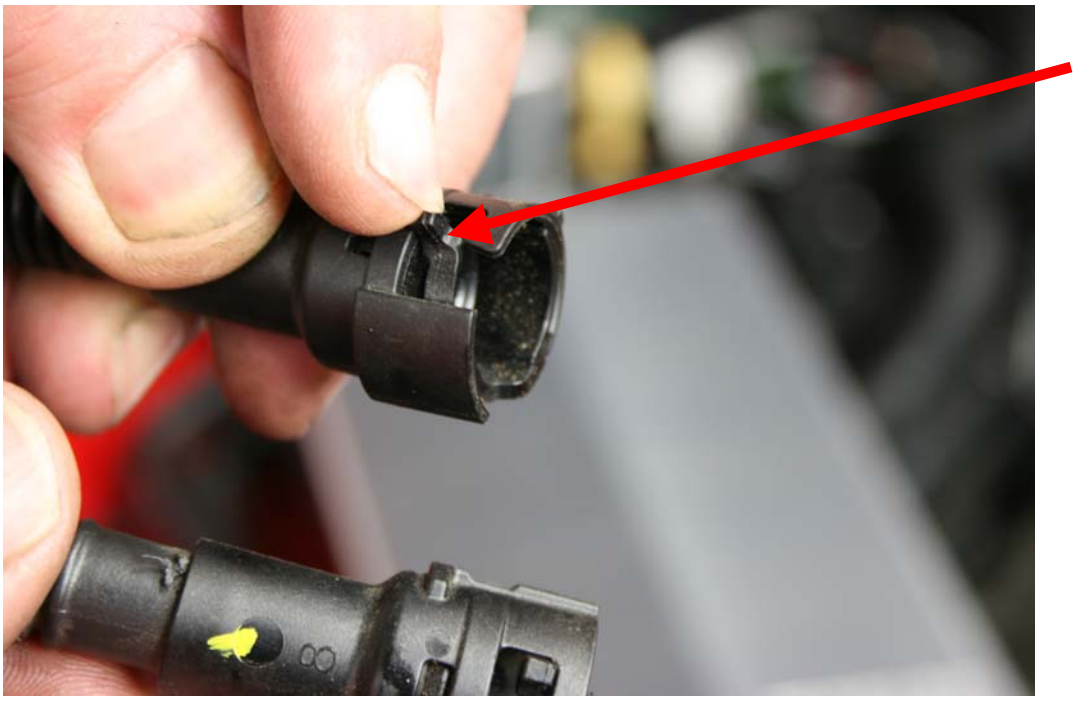


Step 3: Replace oil fill cap



Note: to remove PCV line you must push tab

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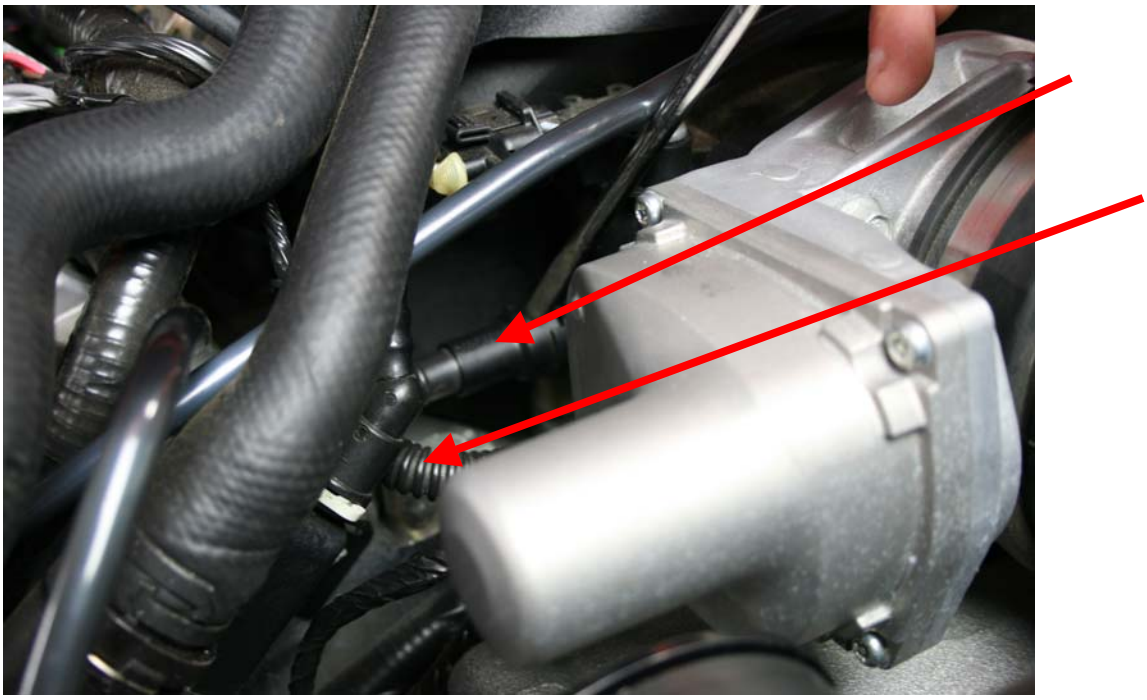
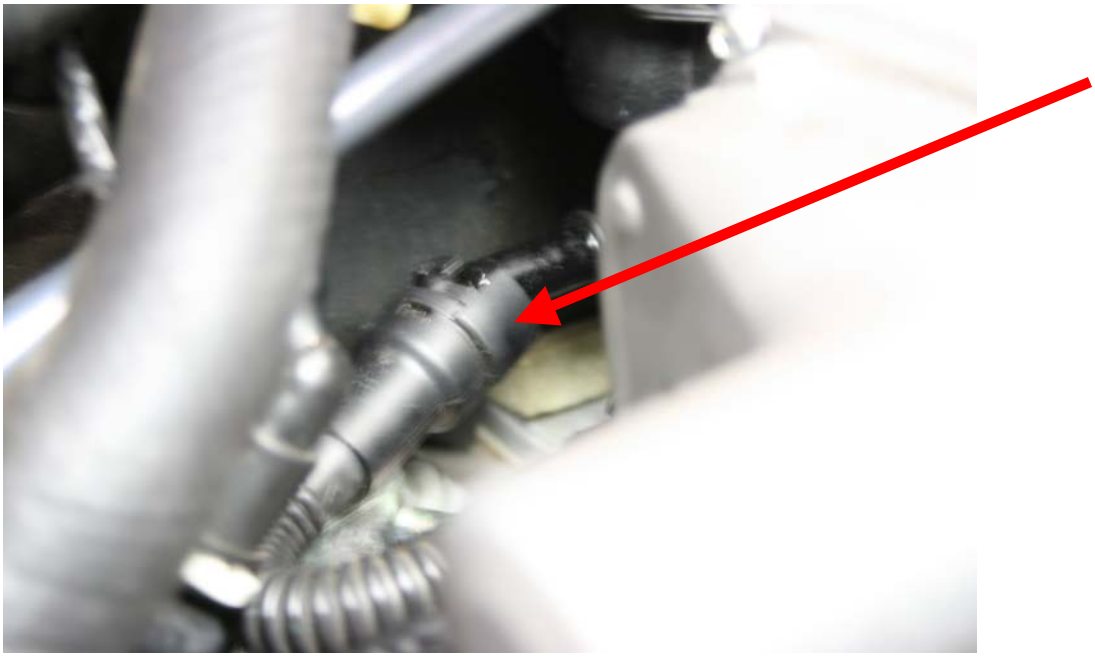


Step 4: Locate PCV line behind throttle body



Step 5: Remove one end of PCV line

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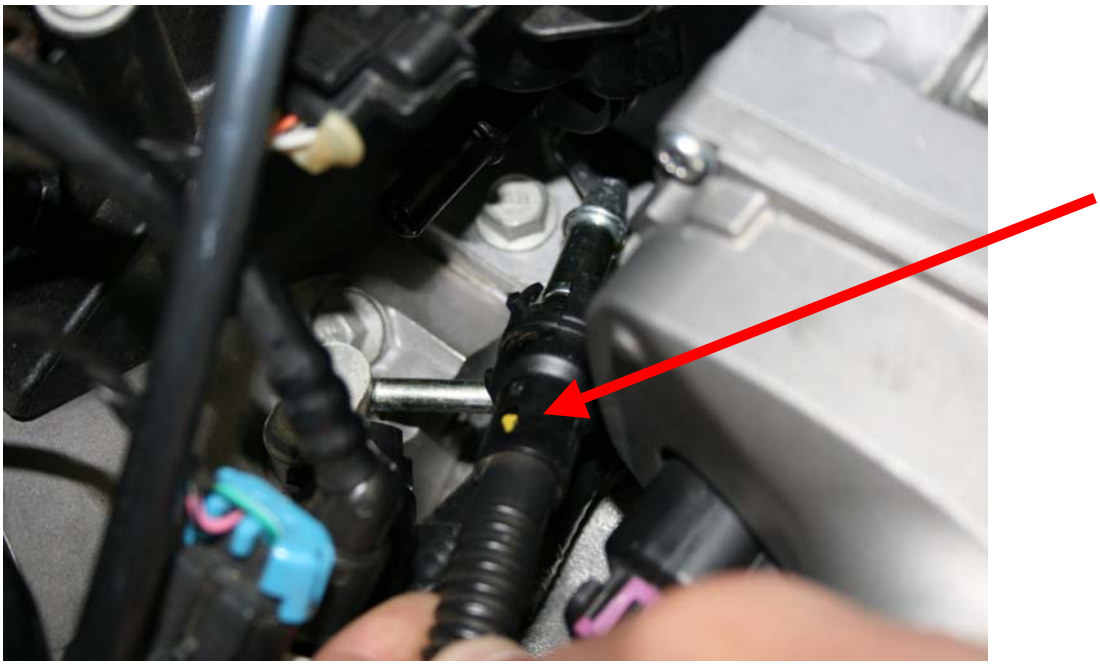

Step 6: Remove other end of PCV line

Step 7: Remove PCV line from vehicle

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Step 8: Locate radiator, mounting bolt on passenger side and remove

Step 9: Install and tighten 6mm stud into billet mount as shown (note billet mount contains metric and standard threads, thread stud into round end of mount)

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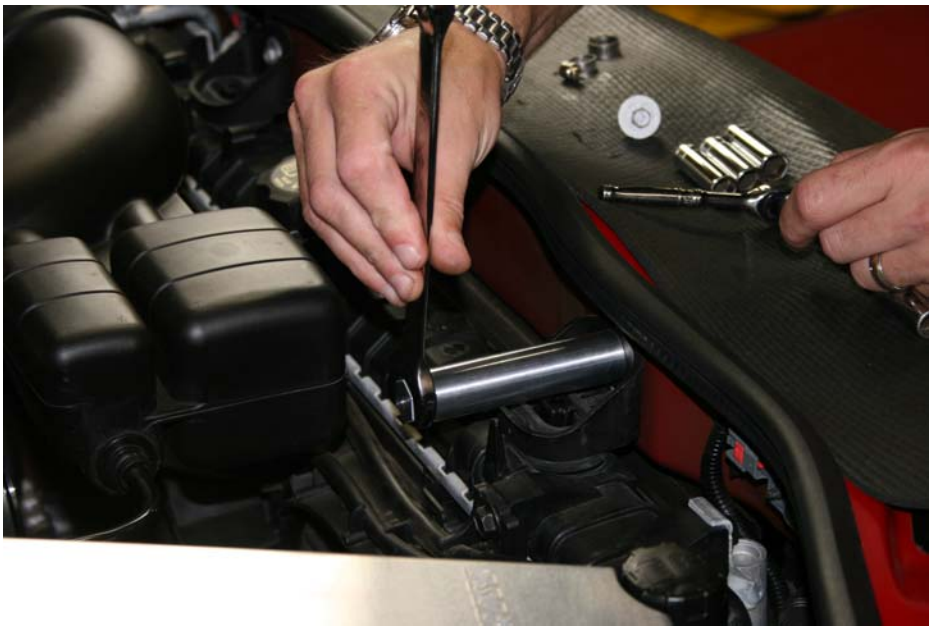

Step 10: Install and tighten billet mount where mounting bolt was previously removed from radiator mount

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Step 11: Install and tighten stainless bracket to billet mount using 1/4x5/8” socket head cap screw (Blue LOCTITE recommended)

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Step 12: Install and tighten billet clamp to stainless bracket using (2) 1/4 x5/8” socket head cap screws

Step 13: Assemble air oil separator as shown, apply Teflon tape to all fittings

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Step 14: Insert air oil separator into billet clamp, line up seam of air oil separator to top of clamp and tighten (Make certain that ball valve is in the closed position)

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Step 15: Place hose clamp over one end of 2ft long hose

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Step 16: Push hose over nipple on manifold behind throttle body, and tighten clamp

Step 17: Route other end of hose to Air Oil Separator

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Step 18: Trim hose as necessary

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Step 19: Push hose over barbed fitting


Step 20: Place hose clamp over one end of 5ft long hose

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Step 21: Push hose over nipple on manifold behind throttle body, and tighten clamp

Step 22: Route other end of hose to Air Oil Separator

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Step 23: Trim hose as necessary

Step 24: Push hose over barbed fitting

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Step 25: Remove oil fill cap

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Step 26: Reinstall intake cover

Step 27: Reinstall oil fill cap

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Installation complete

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