

B8/8.5 S/Q5 Heat Exchanger**034 MOTORSPORT**

034Motorsport's heat exchanger upgrade for the B8 SQ5 is the new standard in performance; engineered to provide better and more efficient cooling of the charge air.

Getting Started

Confirm you have received all the parts included with your purchase by reading the complete guide, if there are missing components, please contact:

customerservice@034motorsport.com

Installation Spiciness Rating: HOT

Installation of your 034Motorsport Heat Exchanger Kit is a straightforward process that will take approximately 5 hours to complete.

Supplied Parts:

- Heat exchanger assembly
- Diverter plate
- (2x) 25x3 o-ring
- (2x) cap plate
- Mounting bracket (LH + RH)
- Air block off plate (Right side)
- (8x) M6x10 hex head drive flat head screw
- (8x) self-tapping screws
- (4x) M8x14 button head cap screws
- (4x) M8 lock washer
- (4x) 16x25 worm drive hose clamp
- (2x) -10AN plug
- (2x) 1-1/4" grommet
- (2x) hose coupler
- 90deg -10AN barb fitting
- Straight -10AN barb fitting
- 90deg silicone hose
- Straight silicone hose
- 8" zip-tie
- Zip-tie anchor

Tools Needed:

- T30 Torx Driver
- T25 Torx Driver
- 13mm Socket
- 8mm Socket
- 5mm Allen
- 4mm Allen
- 3/16" Allen
- 1/8" drill bit
- Electric drill
- Adjustable wrench
- Pliers or Spring clamp pliers

About This Guide

This Install Guide documents the installation process on a C7 Audi S6. There may be minor differences depending on specific vehicle, market, options, etc. Due to similarities in chassis, many photos were borrowed from the B8 S4 instructions.

Install Steps**Step 1**

Raise car off the ground, either with a lift, or a jack AND jack stands, because Motorsafety!

Step 2

Remove the front bumper cover, front wheels, and belly pan.

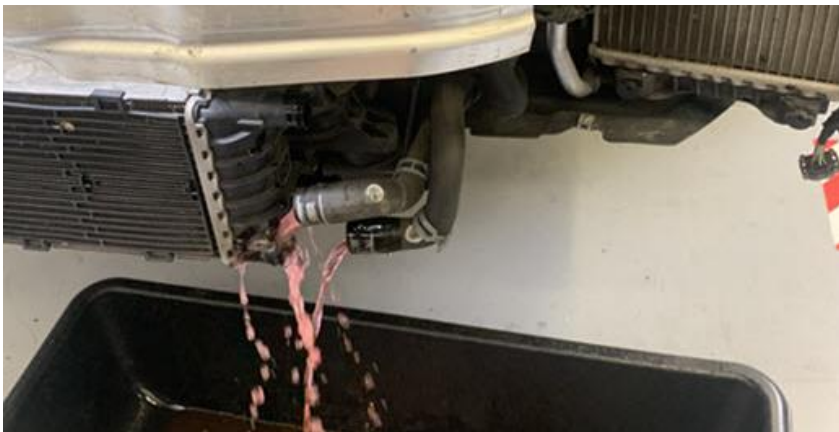
**Step 3**

Remove Radiator and Intercooler shrouds.



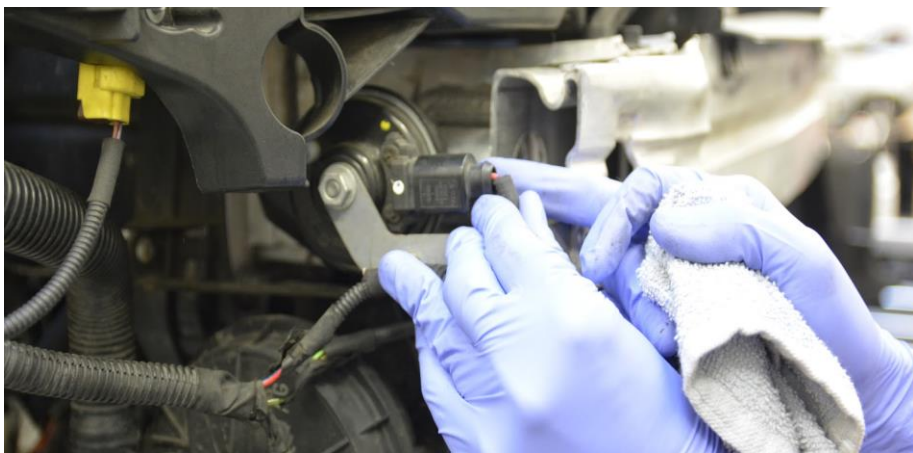
Step 4

Place a catch pan underneath the car. Using pliers or spring clamp pliers, disconnect coolant lines from the stock heat exchanger. Remove OEM H.E. with T30 Torx bit.



Step 5

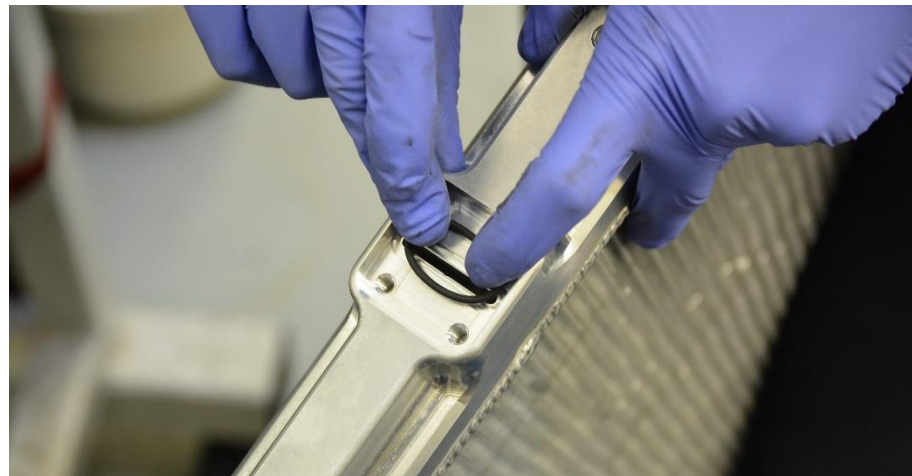
Disconnect outside air temp sensor and horn from both sides.



***Decide if you want the large 034 logo on display or hidden, as this will determine orientation.**

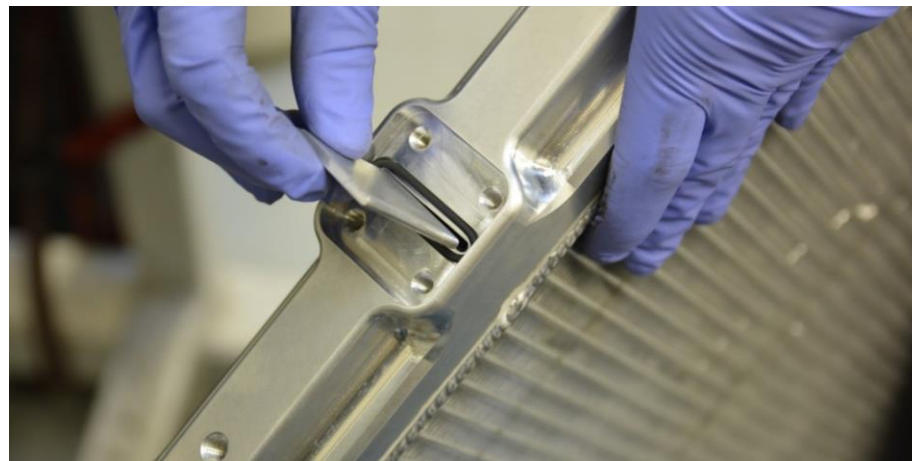
Step 6

Install the 25mm o-ring into both end tanks.



Step 7

Install diverter plate into left-hand side end tank.



Step 8

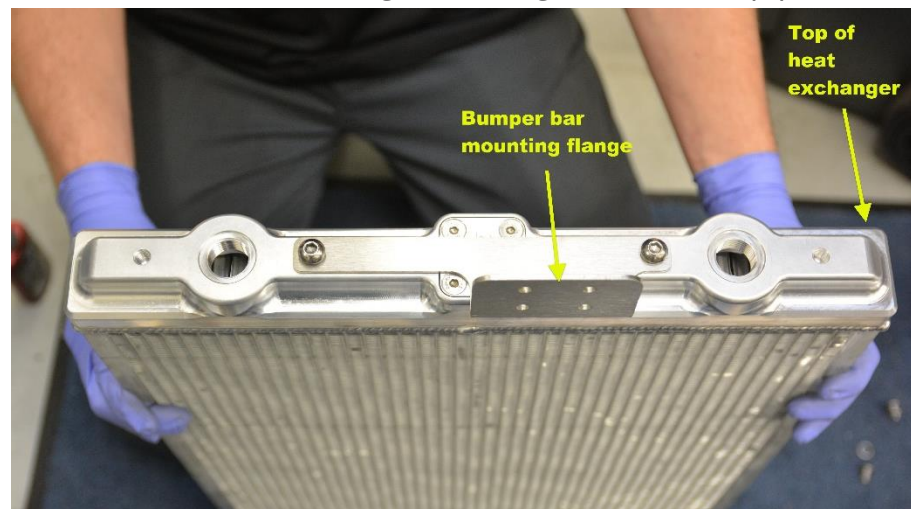
Install cap plates, torquing the M6 flat head screws to **12Nm**.

**Step 9**

Install -10AN plugs onto the right side end tank.

**Step 10**

Install mounting brackets using the M8 button head cap screws, with the 90deg tab sitting below the cap plates.

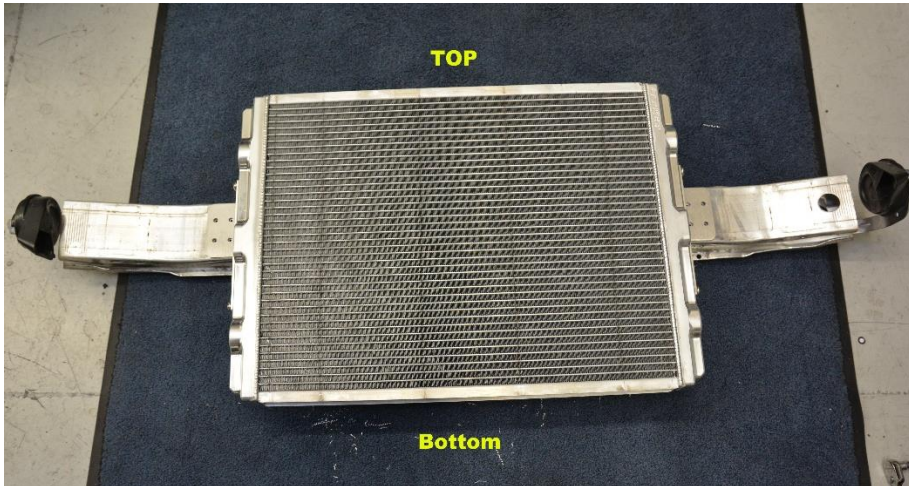
**Step 11**

Using a 13mm socket, remove M8 bolts from both sides of the bumper bar bracket, and remove bar.



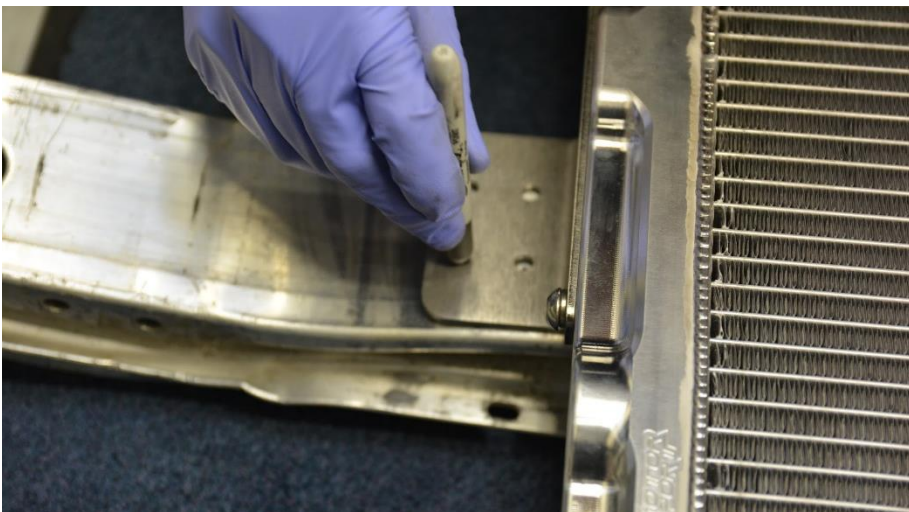
Step 12

Set the bumper bar face down, and place the 034 H.E. over the backside, aligning in the center.



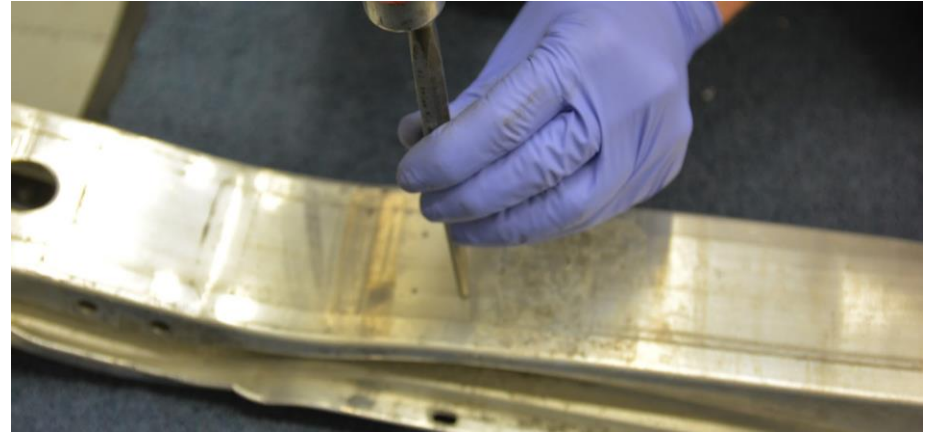
Step 13

Mark all (8) holes from bracket onto bumper bar.



Step 14

Pull off 034 H.E. and center punch the (8) dots to make drilling easier.

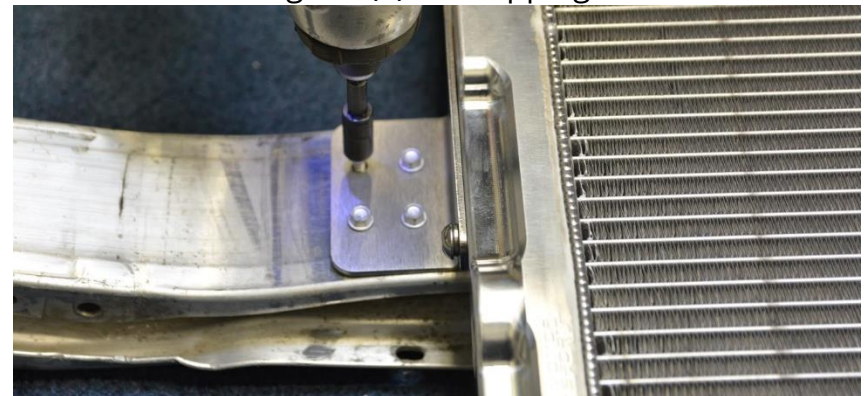


Step 15

Using an 1/8" drill bit, drill out the holes.

Step 16

Re-align 034 H.E. into position and mount it to the bumper bar using the (8) self-tapping screws.

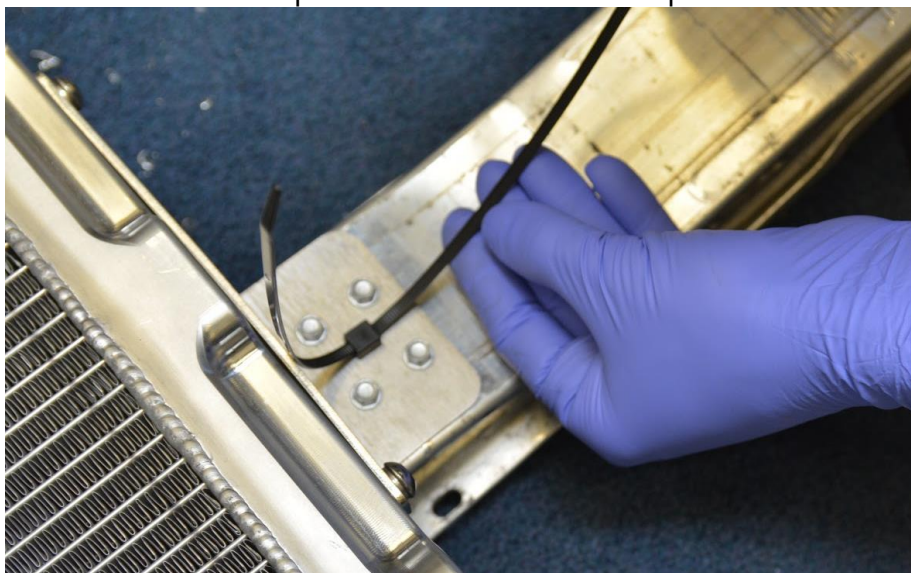


Step 17

Drill 3/16" hole through bumper bar and mounting bracket for zip-tie anchor on the left side. (where the hoses are)

**Step 18**

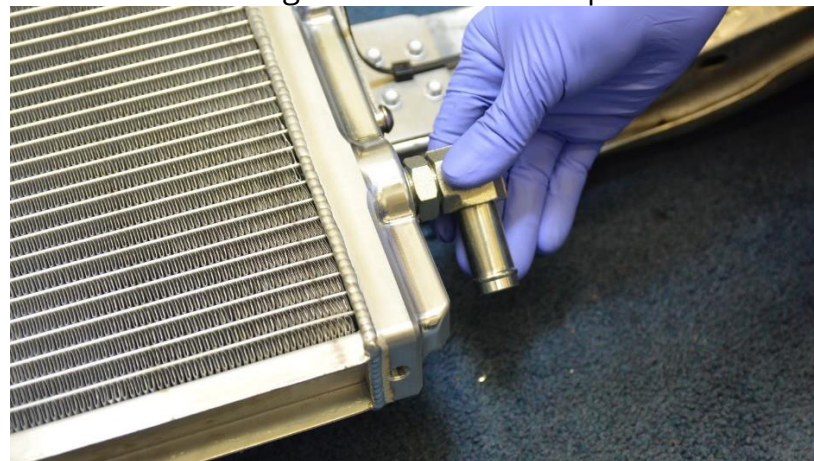
Insert zip-tie anchor and install zip-tie.

**Step 19**

On the left-hand end tank, install 90deg -10AN barb fitting on upper threaded hole facing downward. Install straight -10AN barb fitting on lower threaded hole.

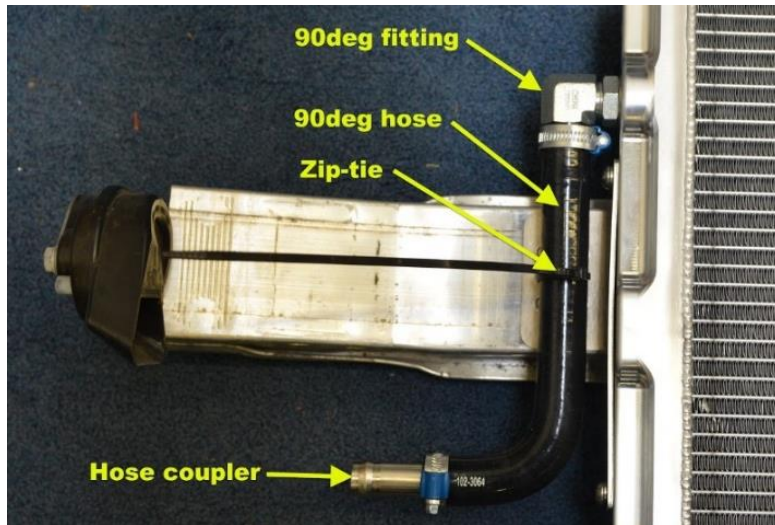
**Step 20**

Install 90deg silicone hose onto upper 90deg barb fitting using a worm drive hose clamp and install hose coupler using another hose clamp.



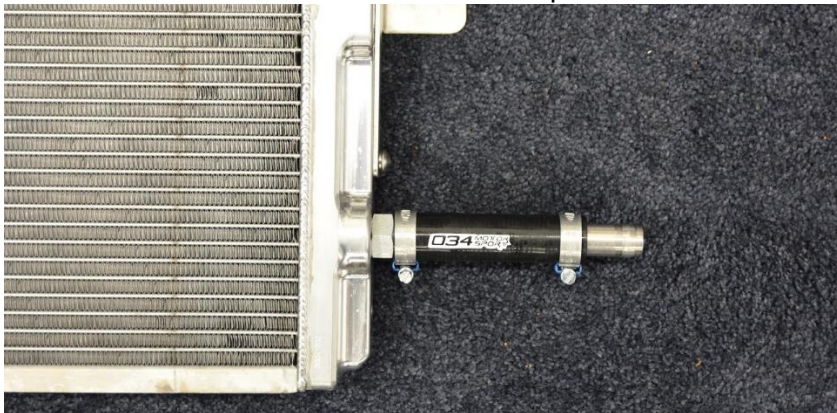
Step 21

Loosely secure 90deg silicone hose to bumper bar with the zip-tie. (B8 S4 assembly pictured)



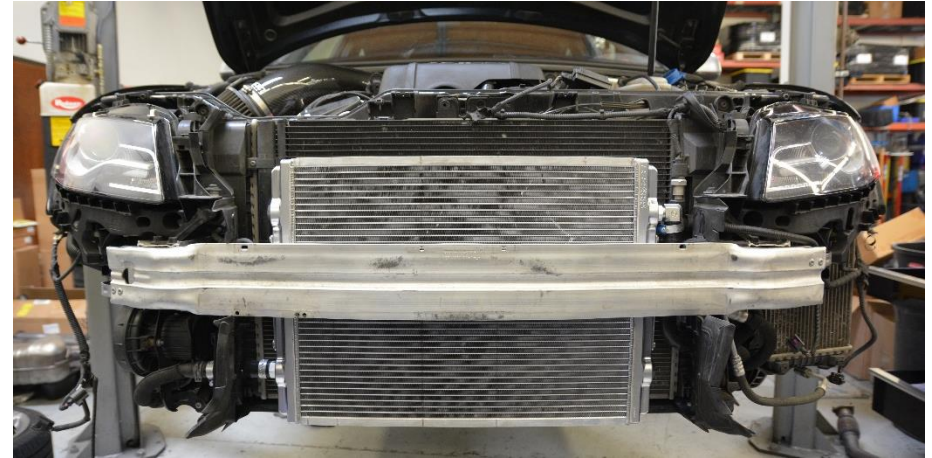
Step 22

Install the straight silicone hose onto the straight -10AN barb fitting using a hose clamp. Insert hose coupler, secure with another hose clamp.



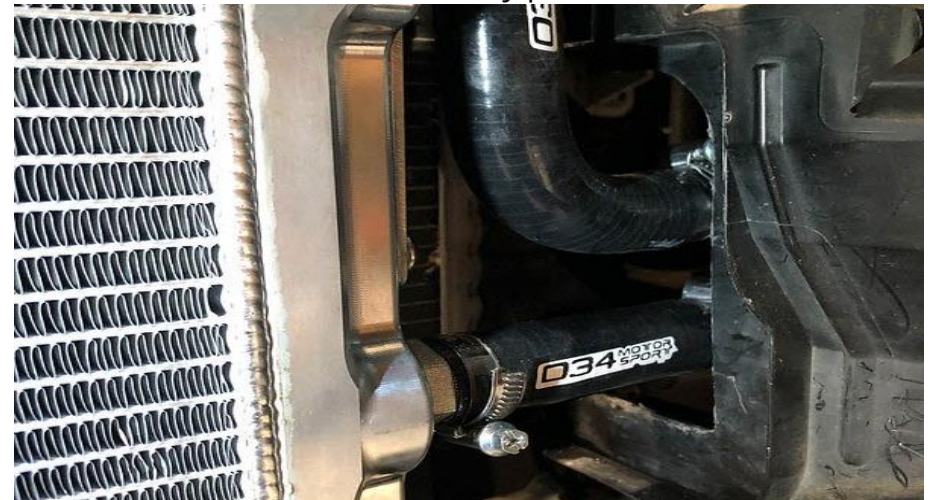
Step 23

Using a 13mm socket, reinstall the bumper bar/ 034 H.E. back onto the car.



Step 24

Connect coolant lines to hose couplers using hose clamps. The 90deg hose for the SQ5 will sit below the straight hose. (B8 S4 assembly pictured)



Step 25

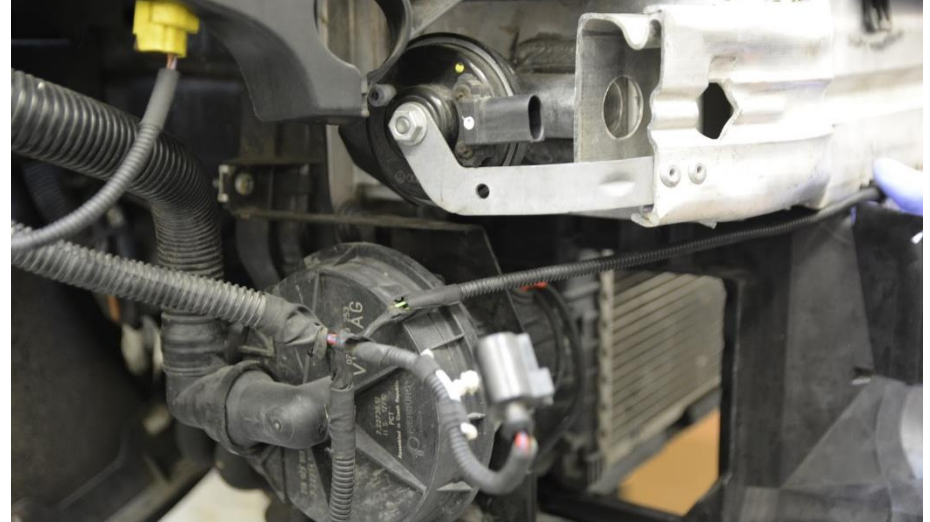
Remove tape backing from the solid plate, and mount to the outside of the air deflector on the right side, covering the large opening. The left side does not have a block-off plate.

***Make sure surfaces are clean and dry for optimal tape adhesion**



Step 26

Reconnect outside air temp sensor and horn.



Step 27

Reinstall intercooler and radiator air ducts.



Step 28

Fill and bleed coolant and check for leaks.

Step 29

Return front wheels, bumper and belly pan.

**Step 30**

You're done. Enjoy the new performance!