

VARARAM

TCR-7 Installation Instructions

Tools needed :

10MM deep socket w/ a 6 inch extension
Philips head Screwdriver
7mm socket
5/16ths socket

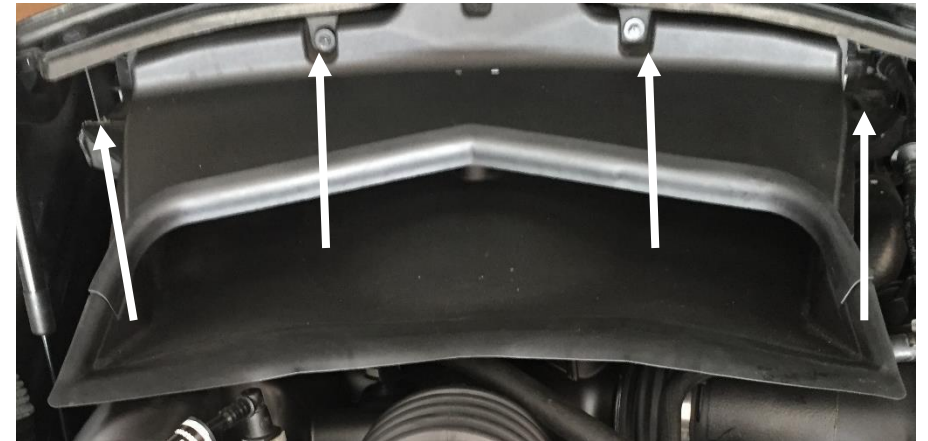
Read the instruction completely through BEFORE beginning the installation. In the back of the instructions we have included some completed overhead views. If you feel uncomfortable doing this installation please consult a certified service technician.

Removing Radiator duct :

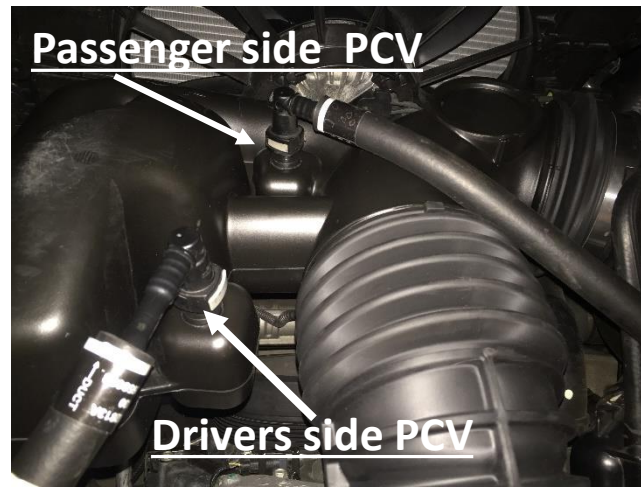
Using a 7mm socket remove all 4 bolts .

Remove intake tube:

Remove PCV line /lines (1 or 2 lines depending on the YR)
Squeeze to release. shown in image
Use 5/16thsocket, loosen the throttle body clamp and the clamp on the air-box neck . Remove the intake tube .



Remove intake tube prt-2



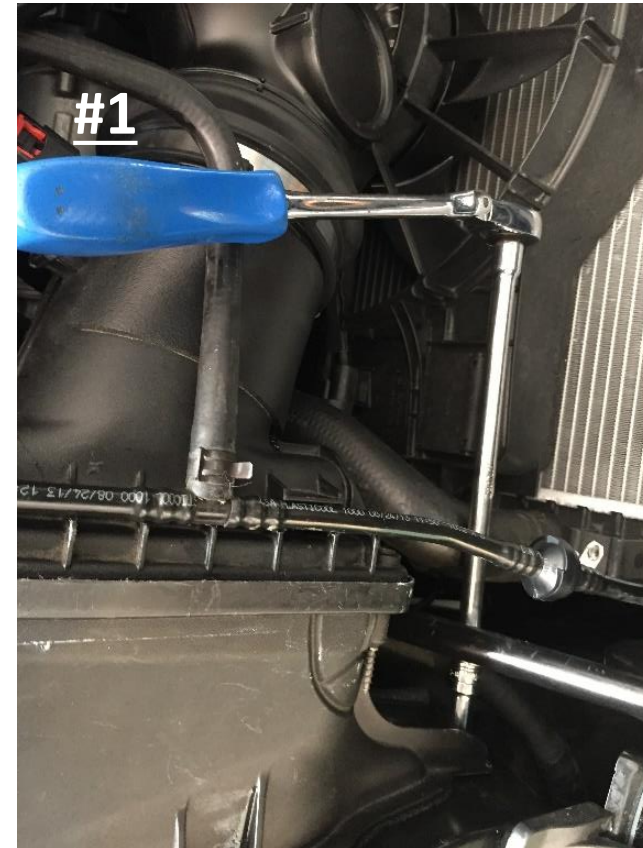
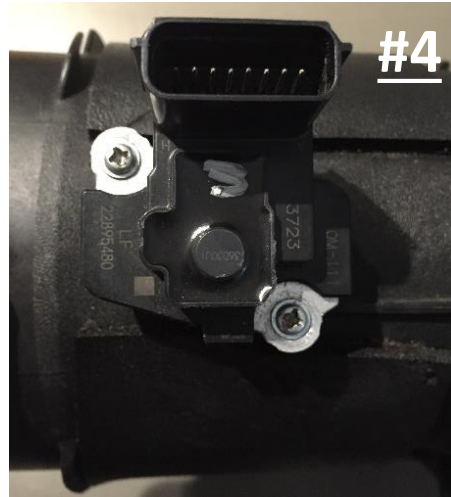
Removing the Airbox:

Unlock and unplug the MAF harness. (as shown in MAF disconnect image)

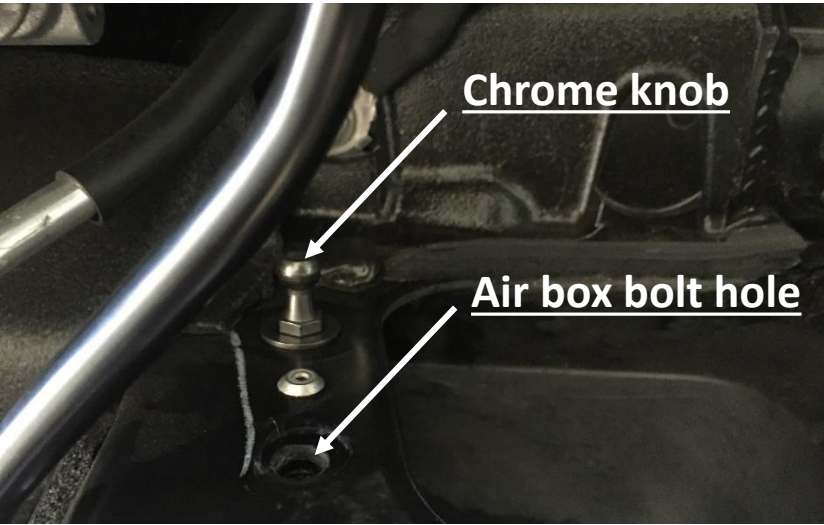
Using a 10MM socket , remove both Air-box bolts as pictured in image #1 and #2.

It's best to use the extension on the bolt closest to the radiator so that you can gain access under the hood shock .

1. Now remove the second bolt.
2. Lift out factory air box .



Remove chrome Air-box knob on the inside fender below the second airbox bolt hole. (10mm deep socket)



Removing MAF sensor:

Remove the sensor using a Philips head screwdriver, some model yrs. may use a star pattern screw (#21) .

Make sure to remove and re-use the Black Square shaped ring seal from the MAF sensor on the VR Intake.



Insert MAF sensor into VR unit - Re- use the square ring seal between the sensor and the VR unit.

Use the VR supplied screws to tighten in place . **DO NOT over tighten!**

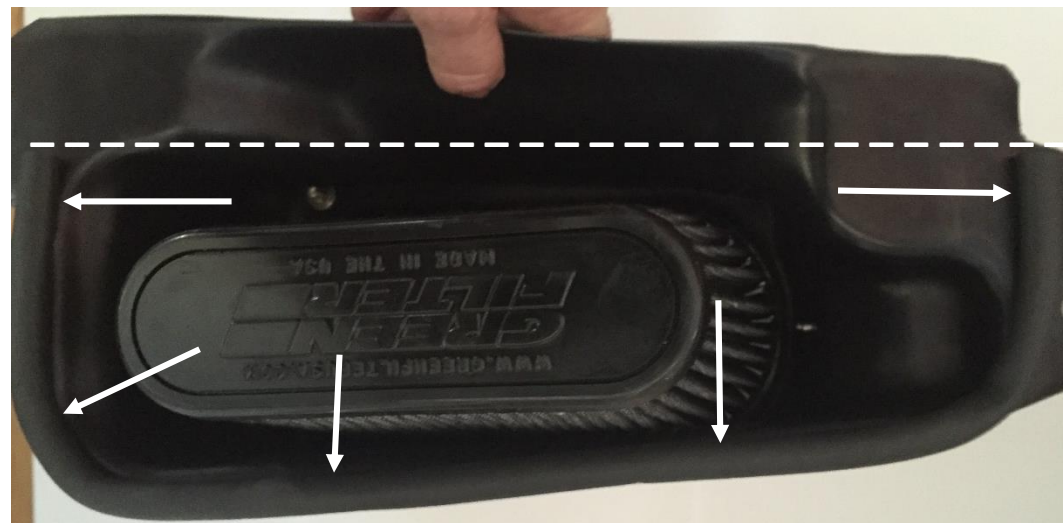
Install foam strip with adhesive backing

Peel off red 3M and stick onto the frame , following the original Air-box line as shown



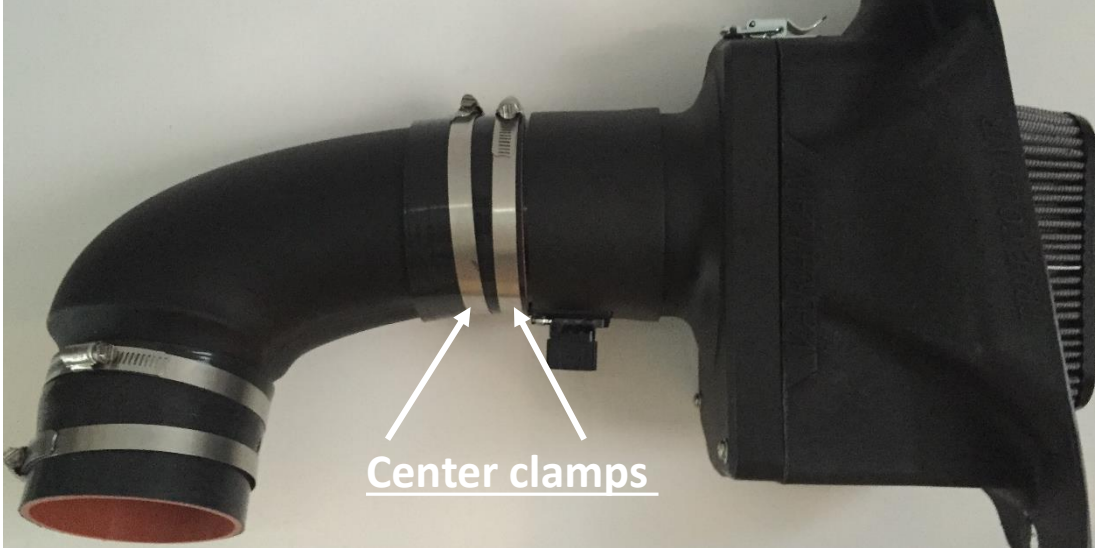
Install bubble strip with adhesive backing onto the lower front section of the VR unit as shown .

This is required for a proper seal and performance .



Installing the VR unit into place as one piece- Read through this section completely before beginning.

Place all band clamps on the unit as shown, leaving the band clamps that secure the intake tube to the back of the Air-box finger tight, but, tight enough to hold the tube on as shown.



Align the front air box bolt hole first. Run the bolt in snug but do not tighten it completely yet.

Run in second bolt and do the same

Now starting with the front bolt tighten both bolts completely.

The front section is designed to flex to shape to the fender to form a proper seal.



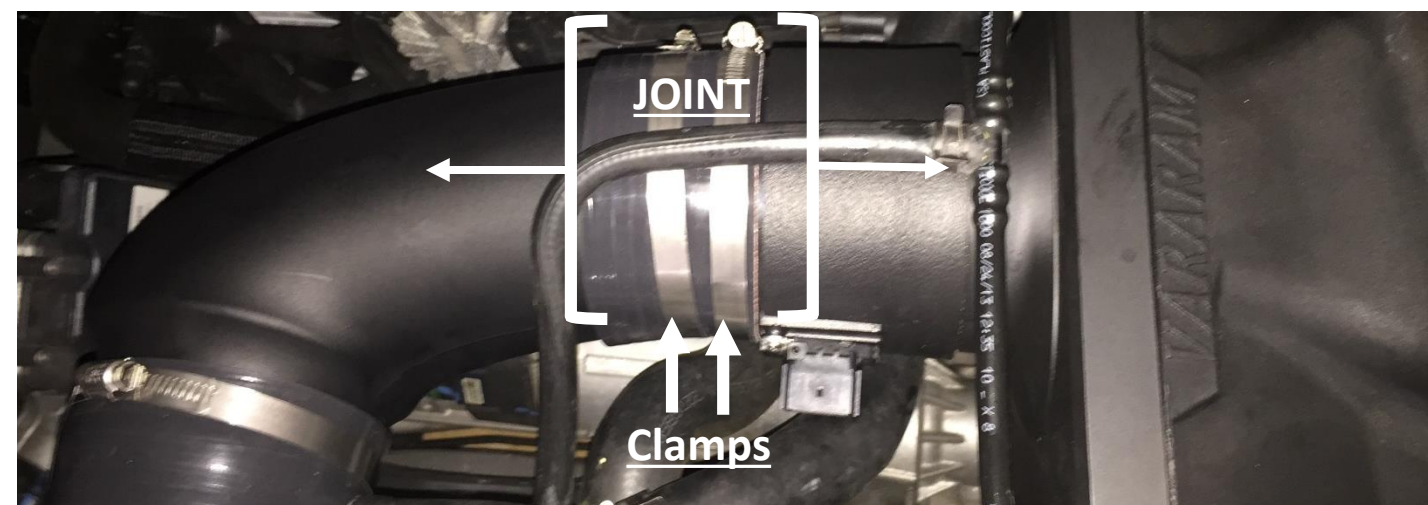
Slide intake tube tail hose on to the throttle body and tighten the clamp completely.



This will pull the Joint between the Air-box tail and intake tube in opposite directions and **SET** the intake tube and Air-box joint angle (as shown below)

Feel the end of the intake tube and slide the clamp to this area and tighten (**spark plug tight only**)

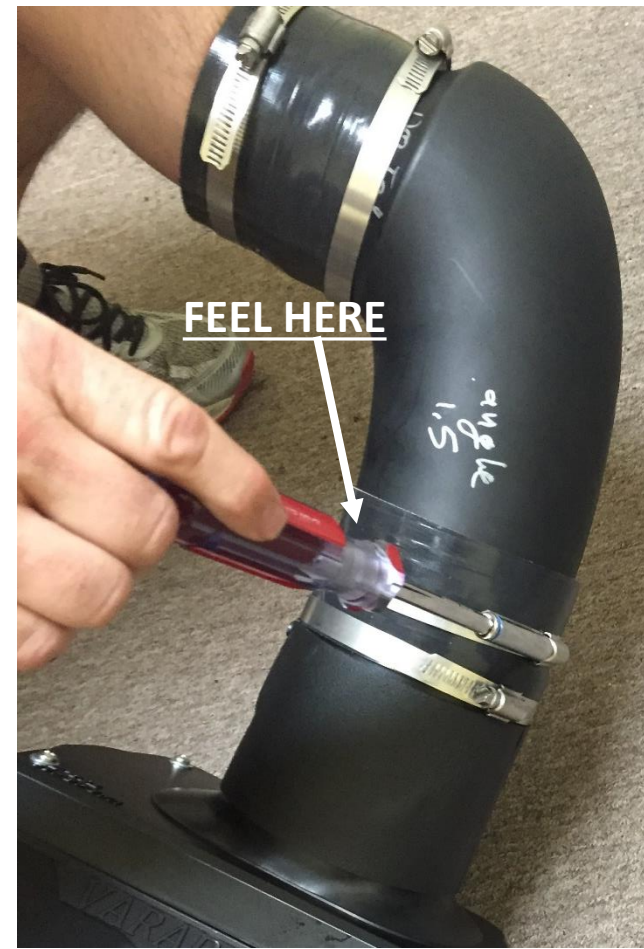
Now tighten the Air-box neck clamp (**spark plug tight only**)



A quick double check step to check your work - Remove the system as one unit ,**leaving JOINT hose clamps tight**. Once removed run your arm in from the throttle body side and **FEEL** for the transition at the Air-Box tail to intake tube connection (**as shown**) feel for any gaps on the short-side radius , if so slide the intake tube clamp down further and re-tighten.

Re-Install the system as one piece as before.

Plug in the MAF sensor harness.



Installing the PCV lines – if this is an 2014-2015 there are two lines , 2016-current uses a single line. Use the instructions for your year vehicle .

2014-2015 yrs. : Remove the lines by squeezing the gray connections. Remove both lines ,one from the sump tank and the other from the drivers side valve cover.

2016-current: Remove the one single line from the sump tank.

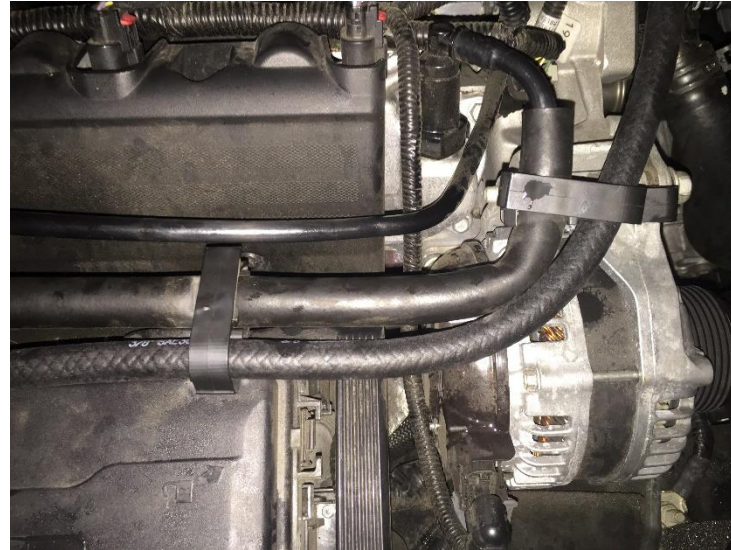
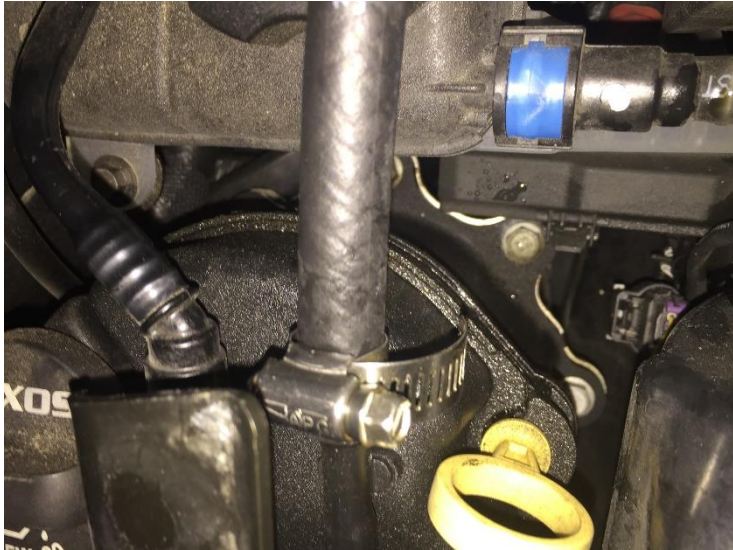


Installing the VR PCV lines and Barbs:

Passenger side- Using supplied PCV line slide this hose onto the sump tank connection and route hose through the same location tabs as the factory hose. Using supplied angle cut barb , place the barb 50% inside the PCV hose with the angle cut end Facing outward as shown. Orient the barb so that the angle cut is facing the throttle body for a clean pull of vacuum . Simply push into the BLK silicon hose. This will not come out when driving or during road racing use.

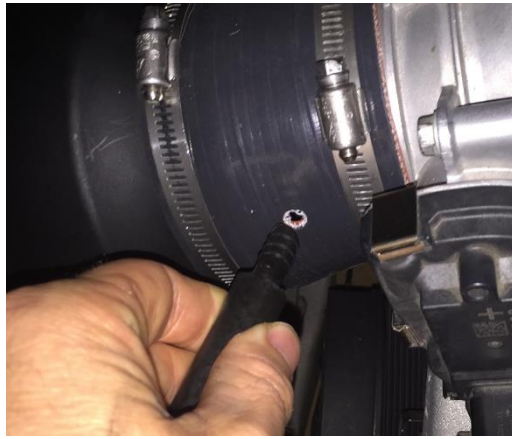
Installing the VR PCV lines and Barbs:


Passenger side- Using supplied PCV line slide this hose onto the sump tank connection and tighten with small clamp. Route hose through the same location tabs as the factory hose. Using supplied angle cut barb, place the barb 50% inside the PCV hose with the angle cut end Facing outward as shown. Orient the barb so that the angle cut is facing the throttle body for a clean pull of vacuum. Simply push into the BLK silicon hose. This will not come out when driving or during racing use.



Driver side 2014-2015 cars only: Using supplied angle reducer hose, short PCV line and angle cut barb. Assemble by sliding the 3/8ths hose INTO the angle reducer hose (no clamp needed here) now place the barb into the 3/8ths hose with the angle cut facing the throttle body for clean pull of vacuum.



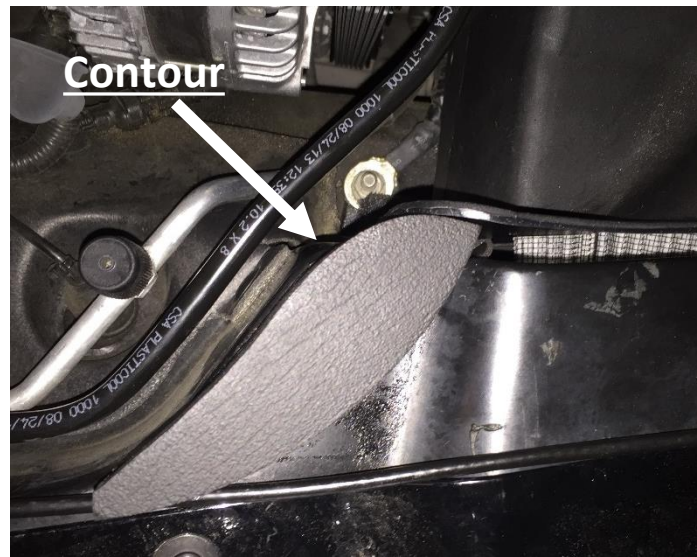


Re-install front fan shroud duct: 



Install 1.5 inch tall soft seal as shown :

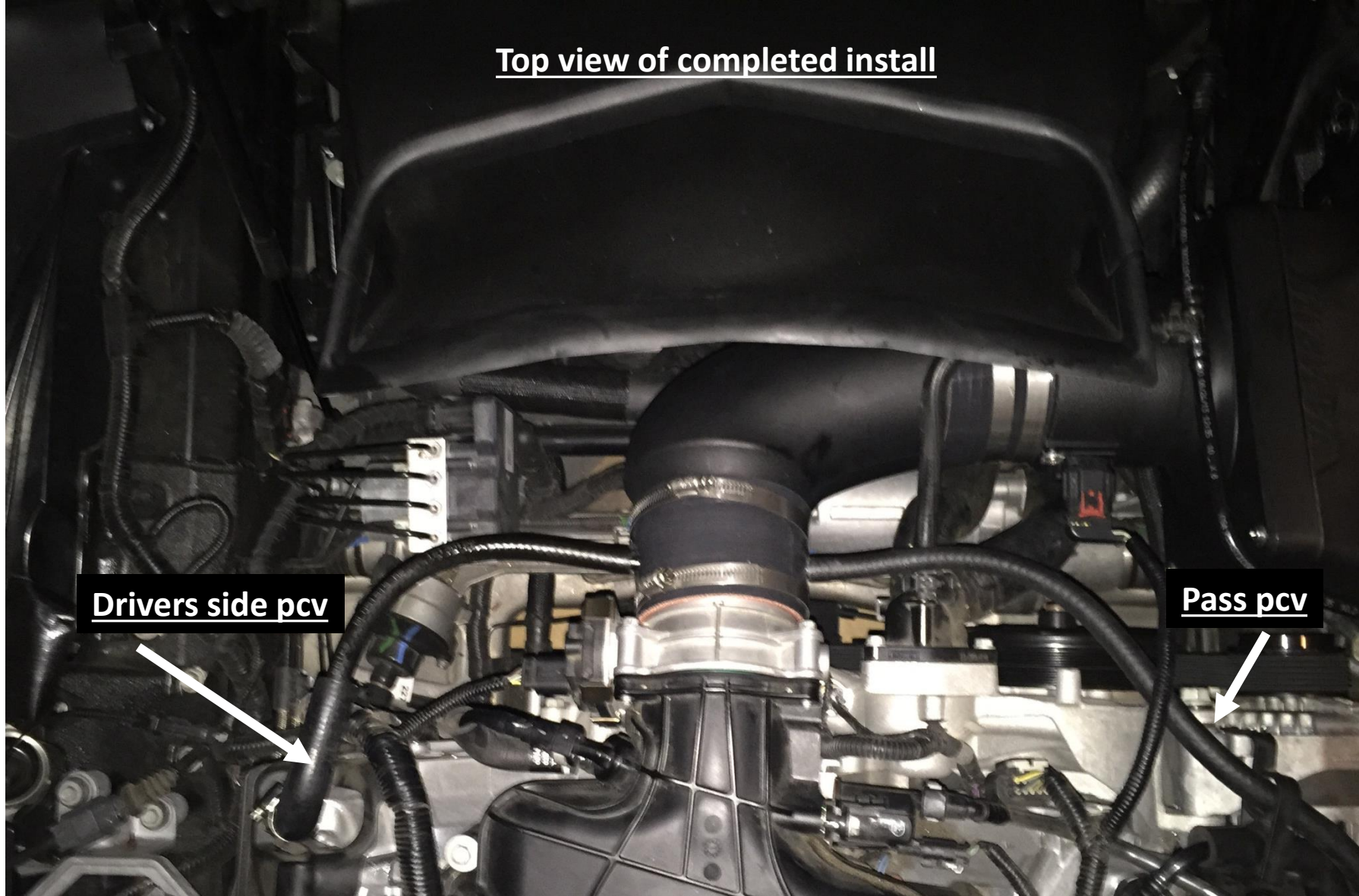
Just line it up with the contour
and butt it up against the VR unit



Top view of completed install

Drivers side pcv

Pass pcv



Side/top view of completed installation Prt 2

**VR PCV HOSE to Valve cover
2014-2015 cars only**

**VR PCV hose to sump tank
All year models**

Neoprene flow pad

