



Installation Instructions Crawford V3 Air Oil Separator Kit 2019+ Ascent

S0614-1 Parts List

Item #	Qty	Description
S0614-C	1	V3 AOS Cannister for Ascent
H0478	27"	Hose - 1/2" ID Vent Hose
H0479	29"	Hose - 5/8" ID Vent Hose
H0485	21"	Hose - 7/8" ID Vent Hose
H0485	29"	Hose - 7/8" ID Vent Hose
C0250-2	8	Clamp - s/s Worm Clamp for 5/8" Hose
Z1074	2	Zip Tie - 7.4" UV Black



Hardware:



Necessary Tools:

12 MM Socket

Ratchet Wrench

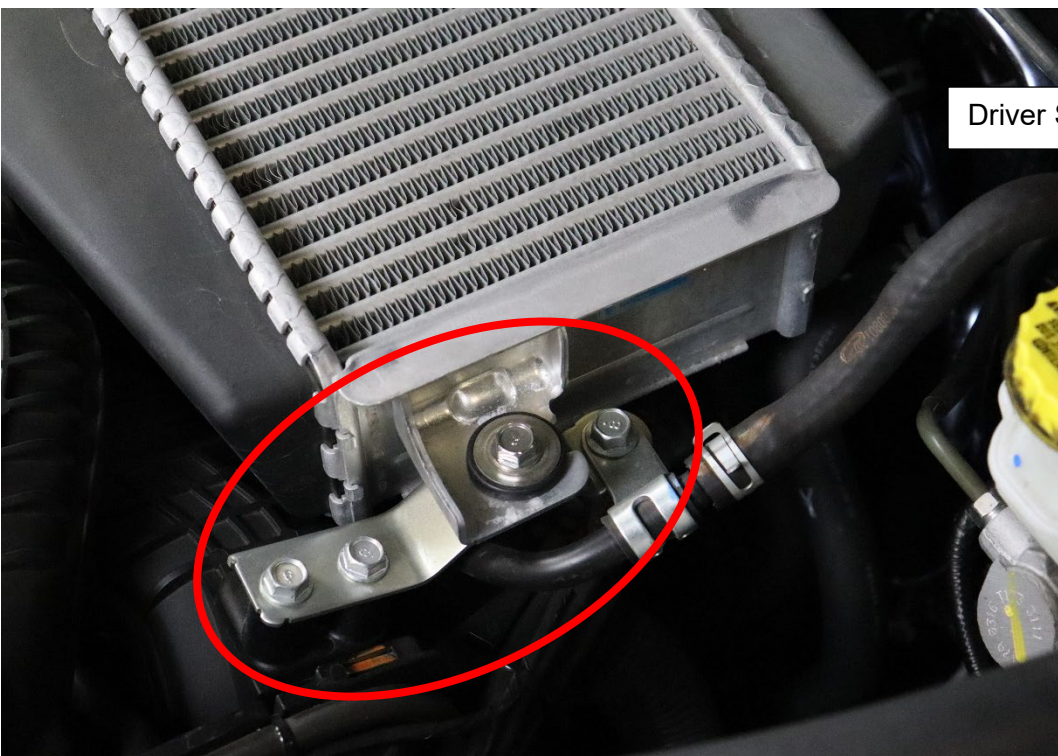
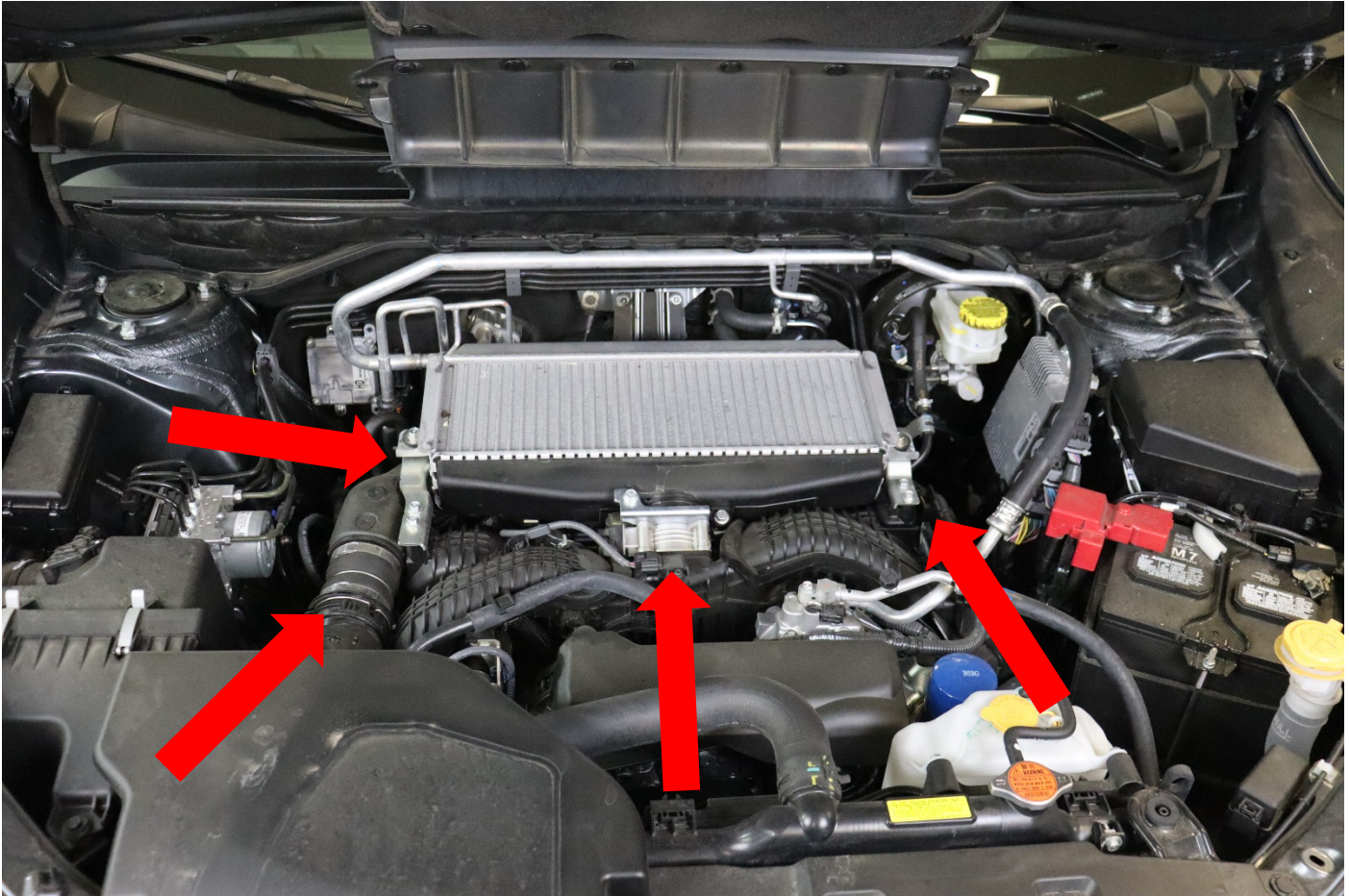
Flathead Screwdriver

Pliers

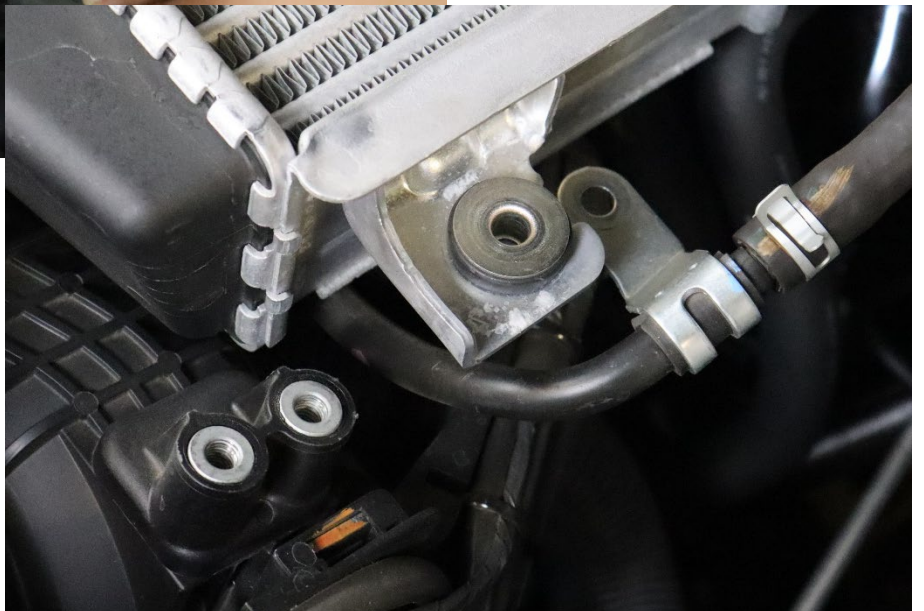
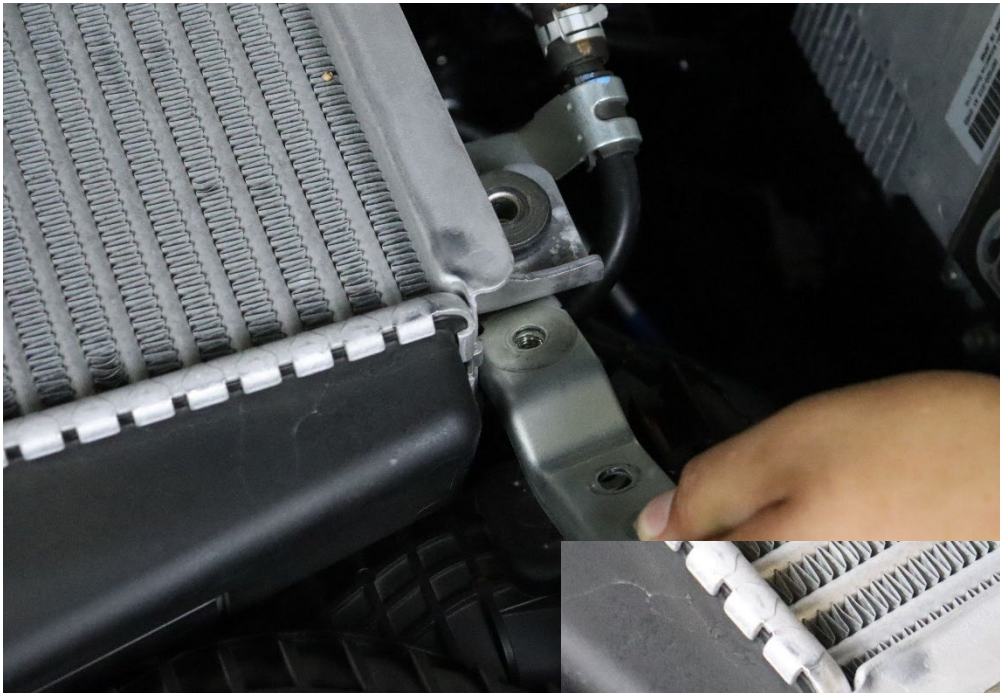


Installation Instructions:

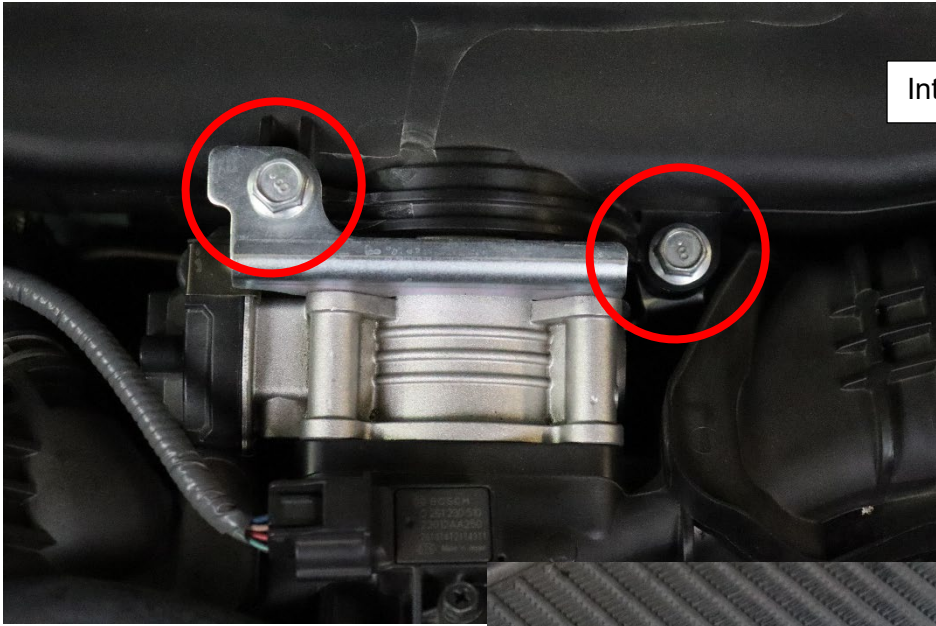
1. Remove the intercooler from the vehicle by unbolting the 12 MM bolts on the left, right, and center of the intercooler as shown. The charge tube will also be removed in this step. Proceed as shown below.



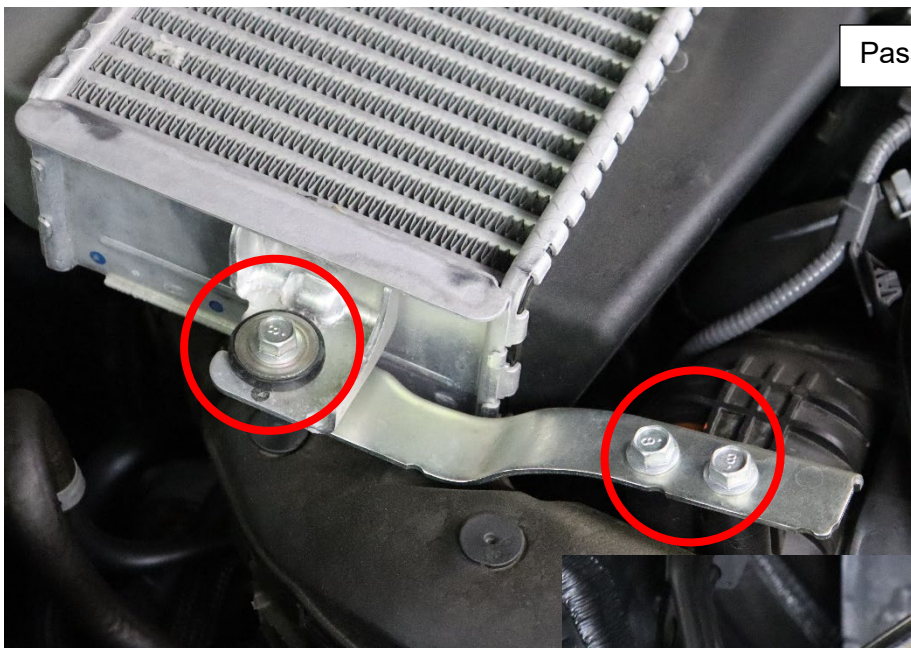
Driver Side Intercooler Mount



Intercooler to Intake Manifold



Passenger side Intercooler Mount





Charge tube coupling. Use a flathead screwdriver or a small hook tool to pry the clip out of the lock position.

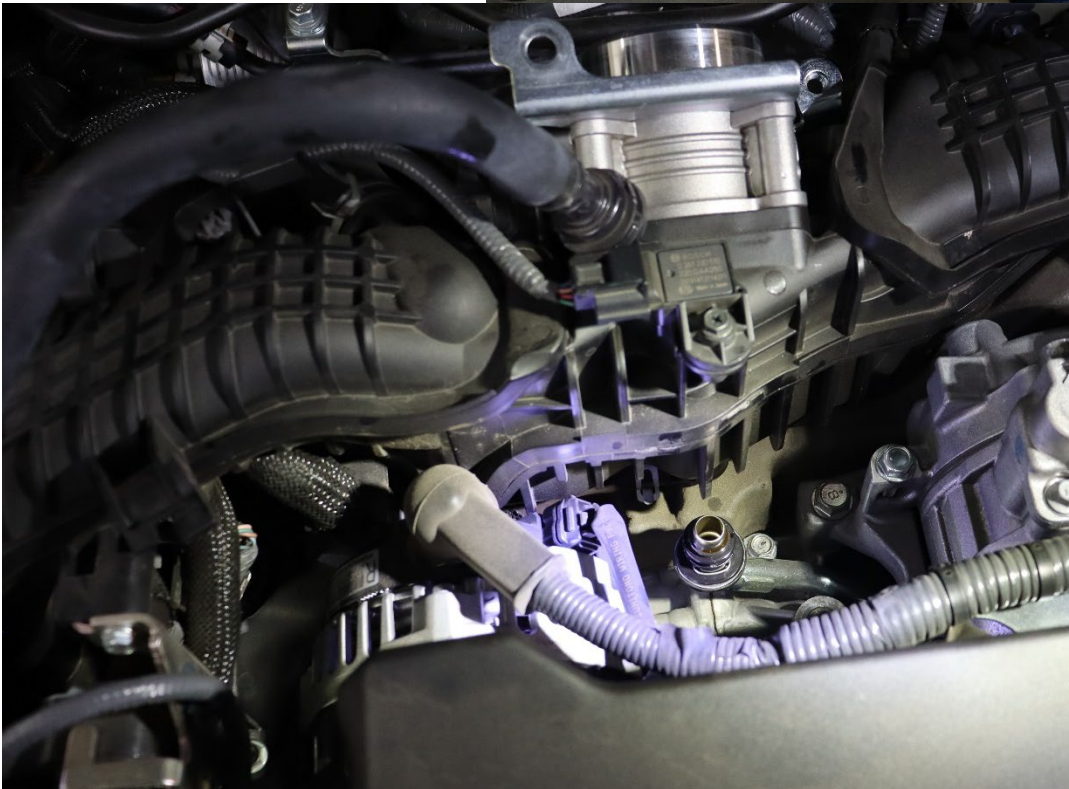




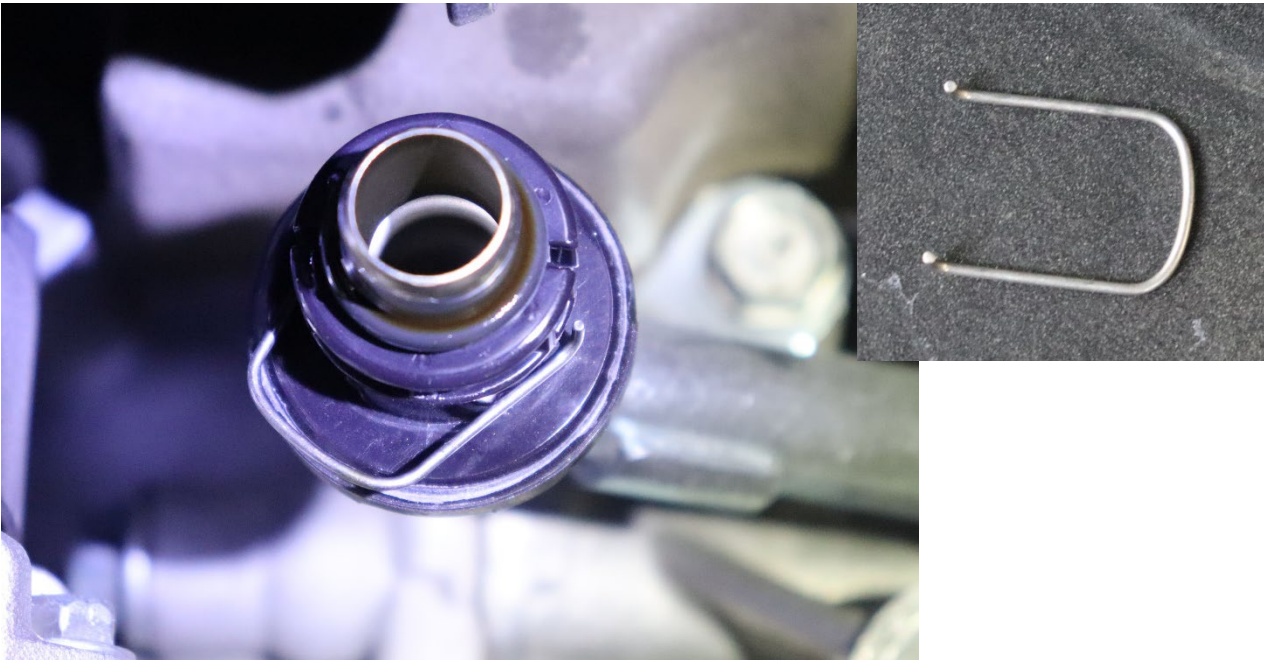
2. Remove the intercooler and intercooler charge tube from the vehicle.



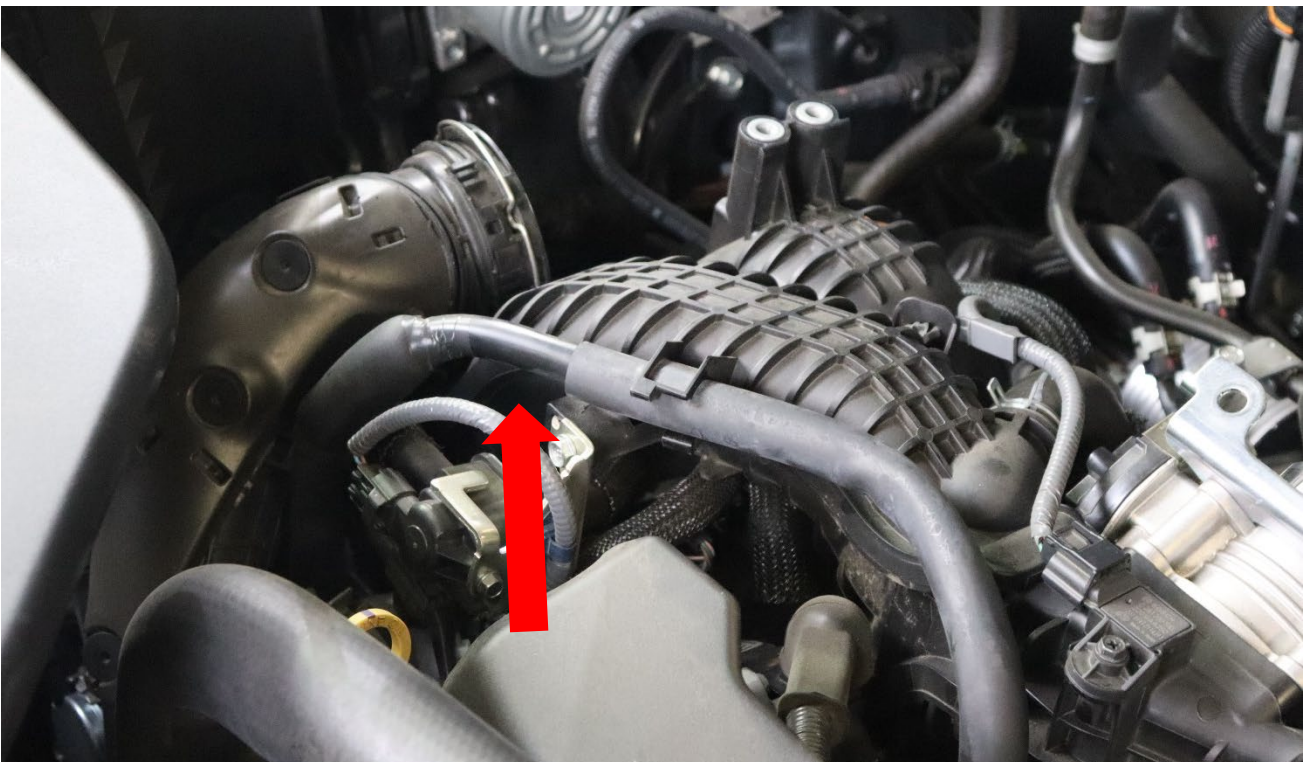
3. Remove the 5/8" OD (1/2" ID) Line from the port located directly in front of the intake manifold inlet. You will notice a plastic connection along this line as you get close to the engine block. This is a single use plastic connection that must be removed to run the AOS hoses. Use a set of channel locks to squeeze the plastic connection until you hear an audible click. Once you hear the click the connector will come undone.

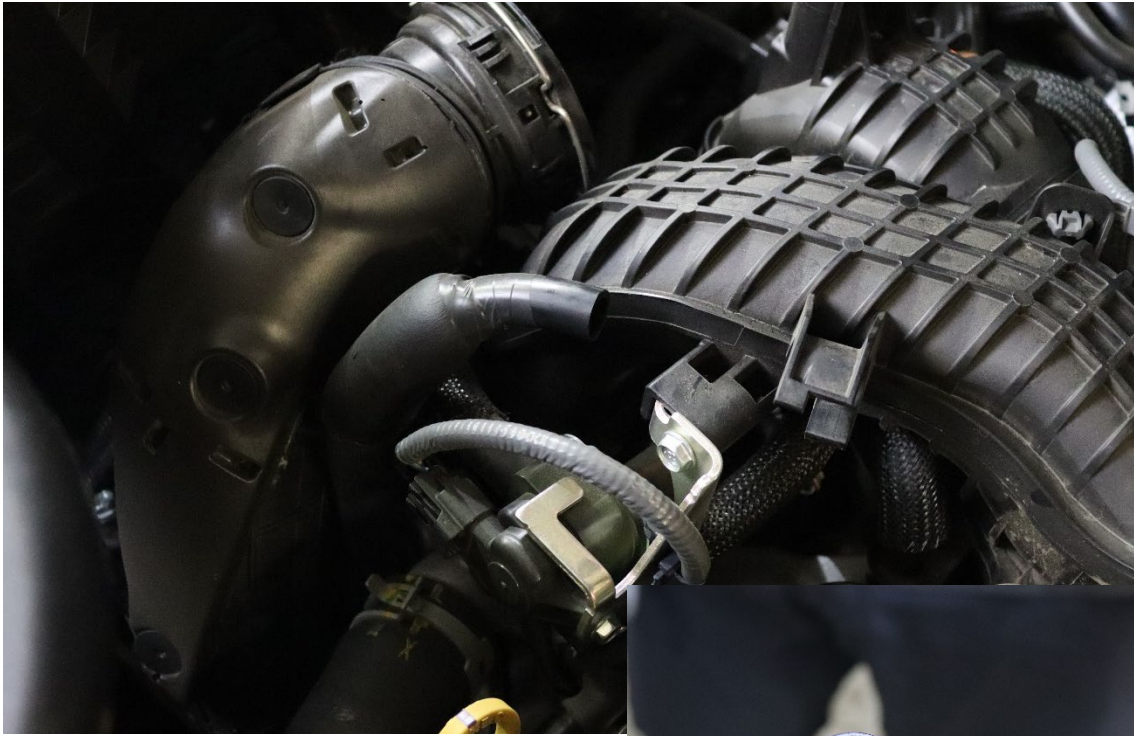


4. Remove the metal clip and plastic cap leading to the solid oil line as shown. Removing the clip will reveal the 1/2" hardline underneath it.



5. Cut the same 5/8" line just in front of the bulge point shown below. Remove this line once cut.





6. Use the OEM driver side intercooler bracket to position the AOS as shown. Loosely fasten the AOS in place using the OEM 12 MM screws





7. Route the provided 27" length of 1/2" hose from the port shown to the 1/2" fitting that was opened up in step 4. Make sure to slip two hose clamps over the provided hose before fitting it to the ports. Route the line underneath the AC lines as shown.



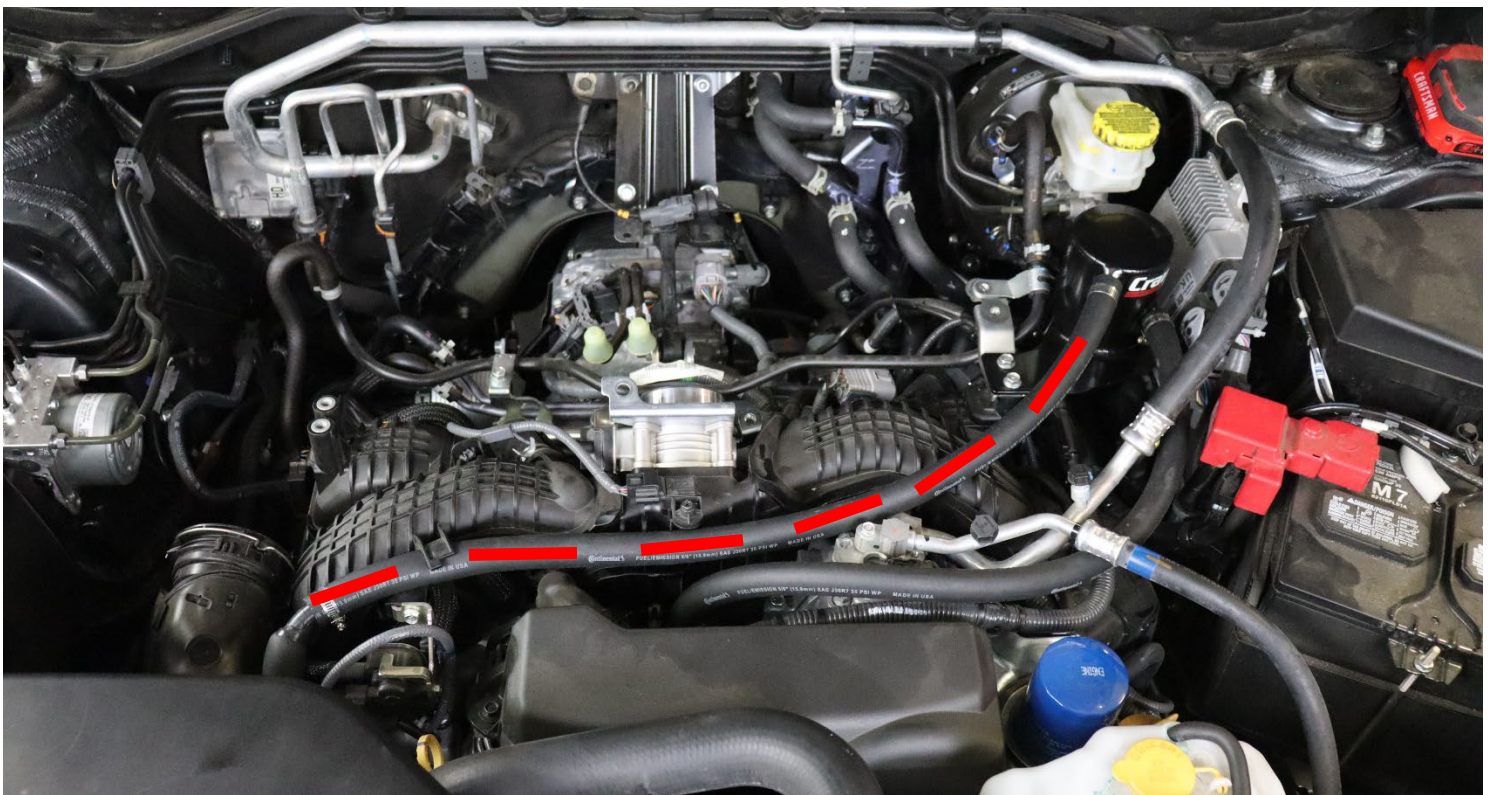
8. Fit the 1/2" Hose over the port revealed in step 4 and sinch down with one of the provided hose clamps. Repeat for the cannister port



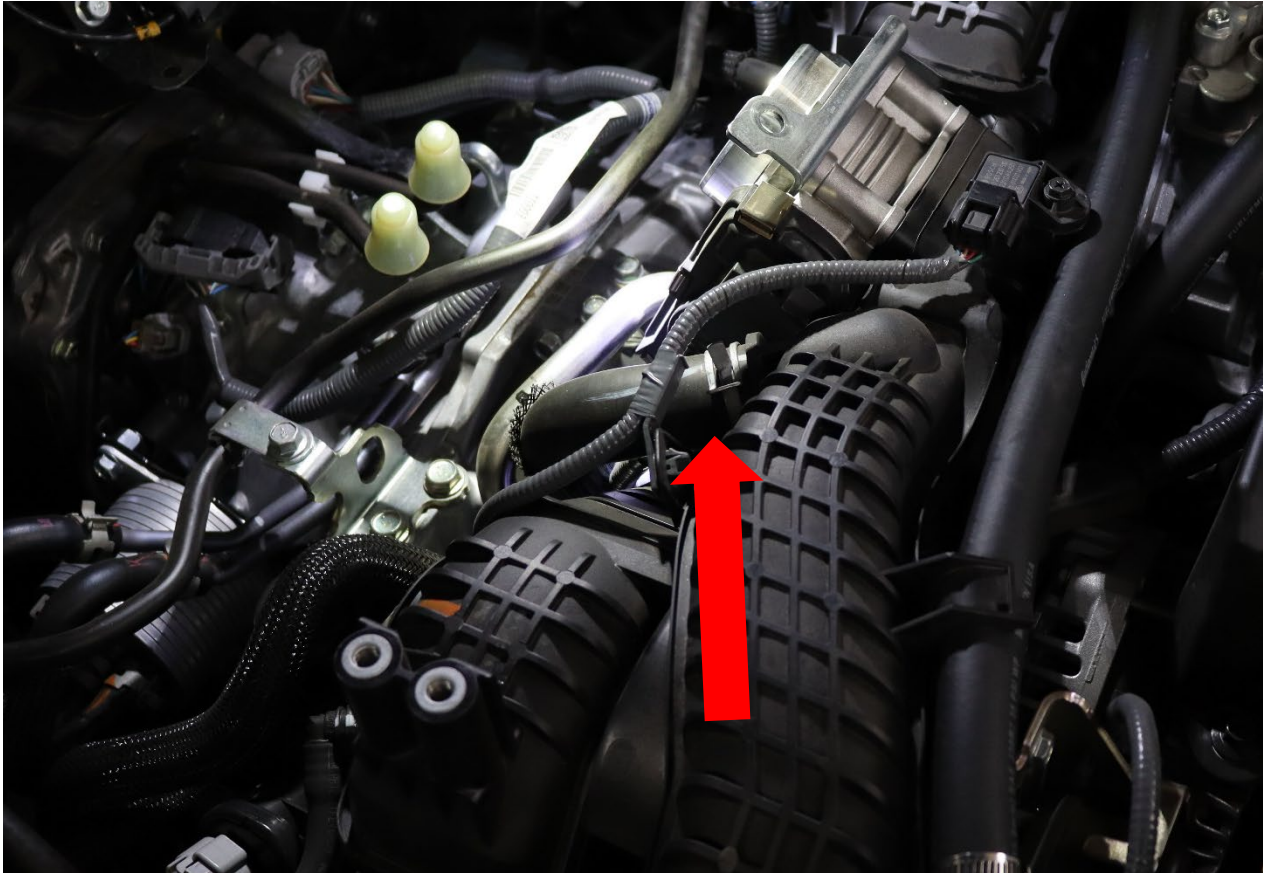
9. Fit the provided 29" length of 5/8" ID tube to the hose that was cut in step 5. Fasten with a provided hose clamp.



10. Fasten the 5/8" hose from step 9 to the top port on the AOS cannister. Once fastened, Route the line across the intake manifold as shown.



11. Moving to the backside of the intake manifold, you will need to remove the PCV hose connected to the manifold as shown. Squeeze the metal clip with a set of pliers to remove the hose.



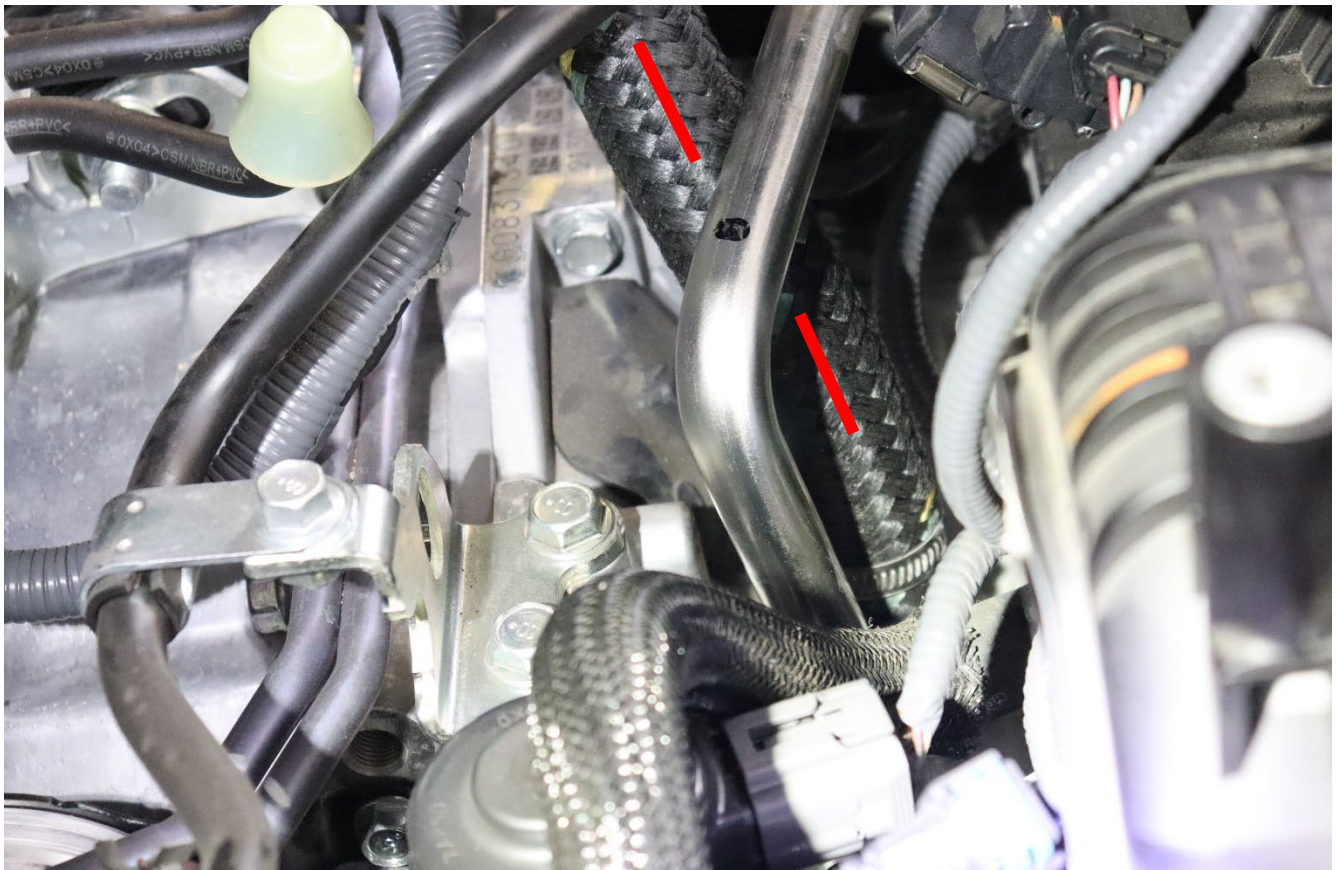
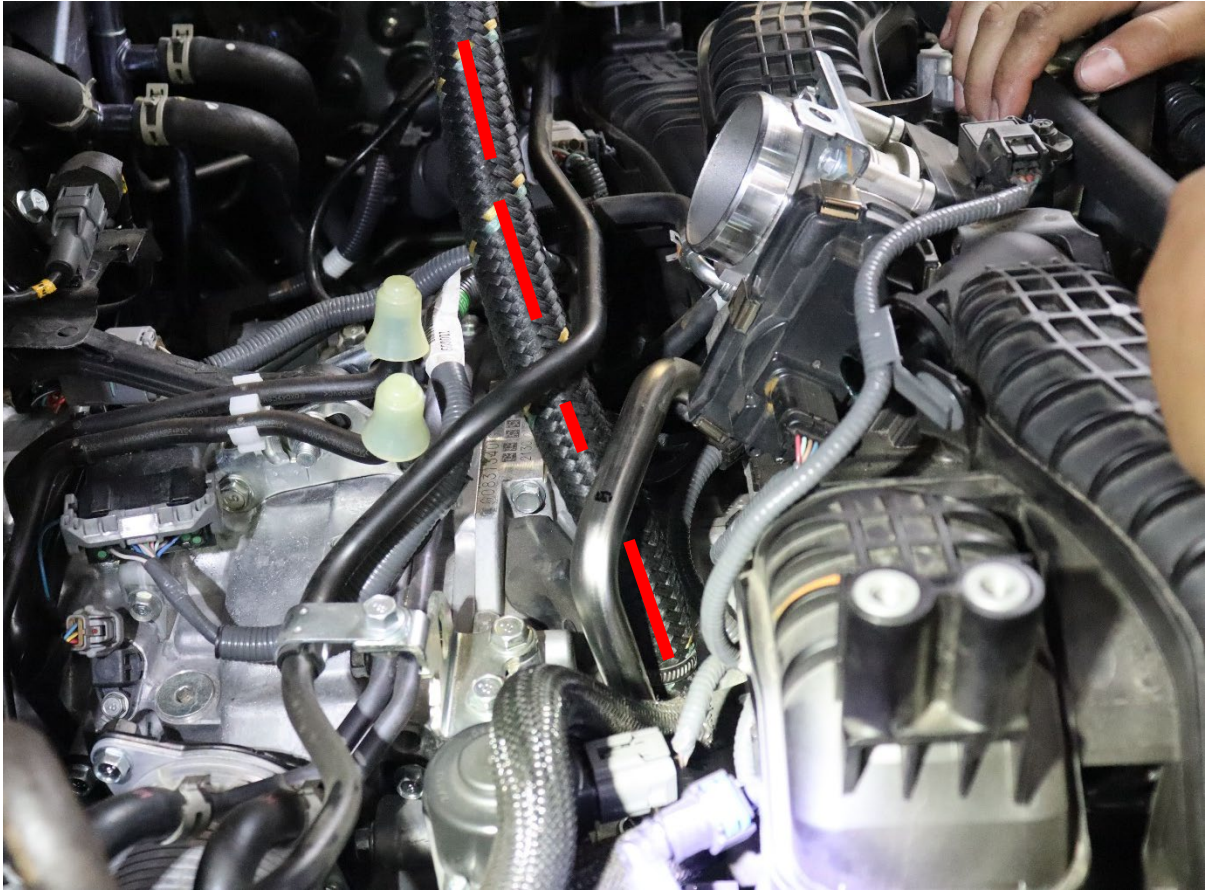


12. Next remove the metal clamp on the lower part of this line with a set of pliers. Once loose, pull the PCV hose out of the vehicle. Both ports should be exposed and ready to receive the AOS hoses.

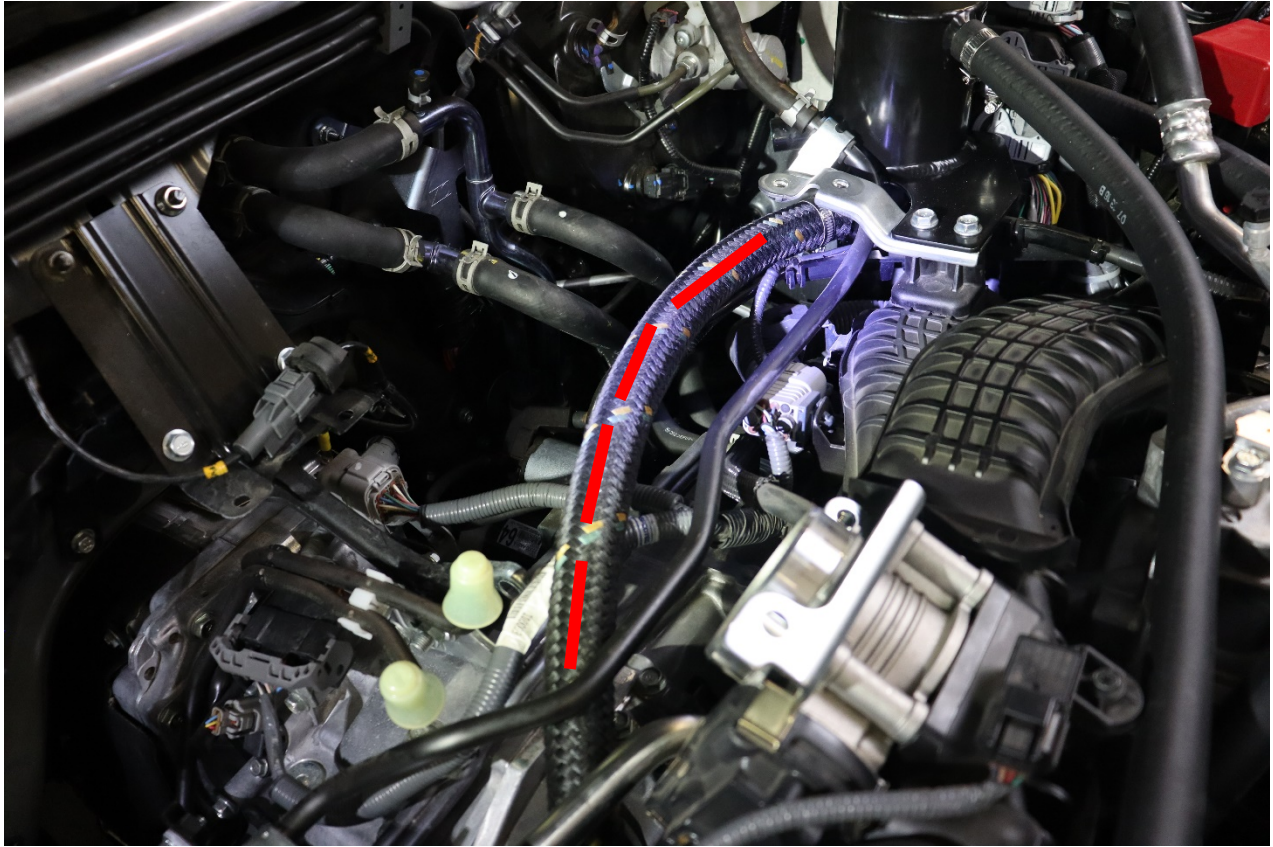




13. Route the provided 21" 7/8" line to the port coming out of the engine block as shown. Make sure the hose is routed under the EGR tube and . This will be a tight fit and may require some lube to get the hose to slip over the port easier.

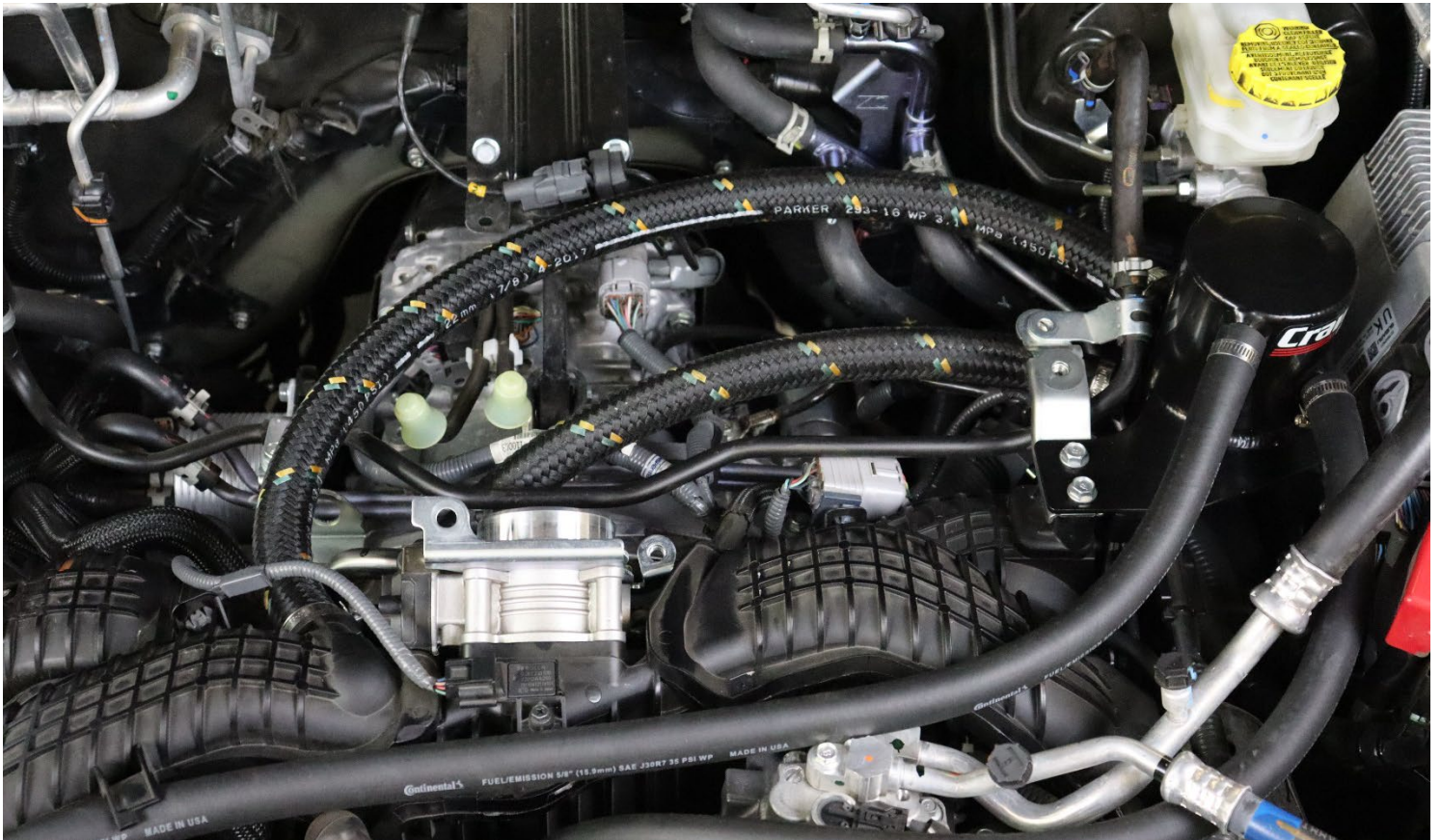
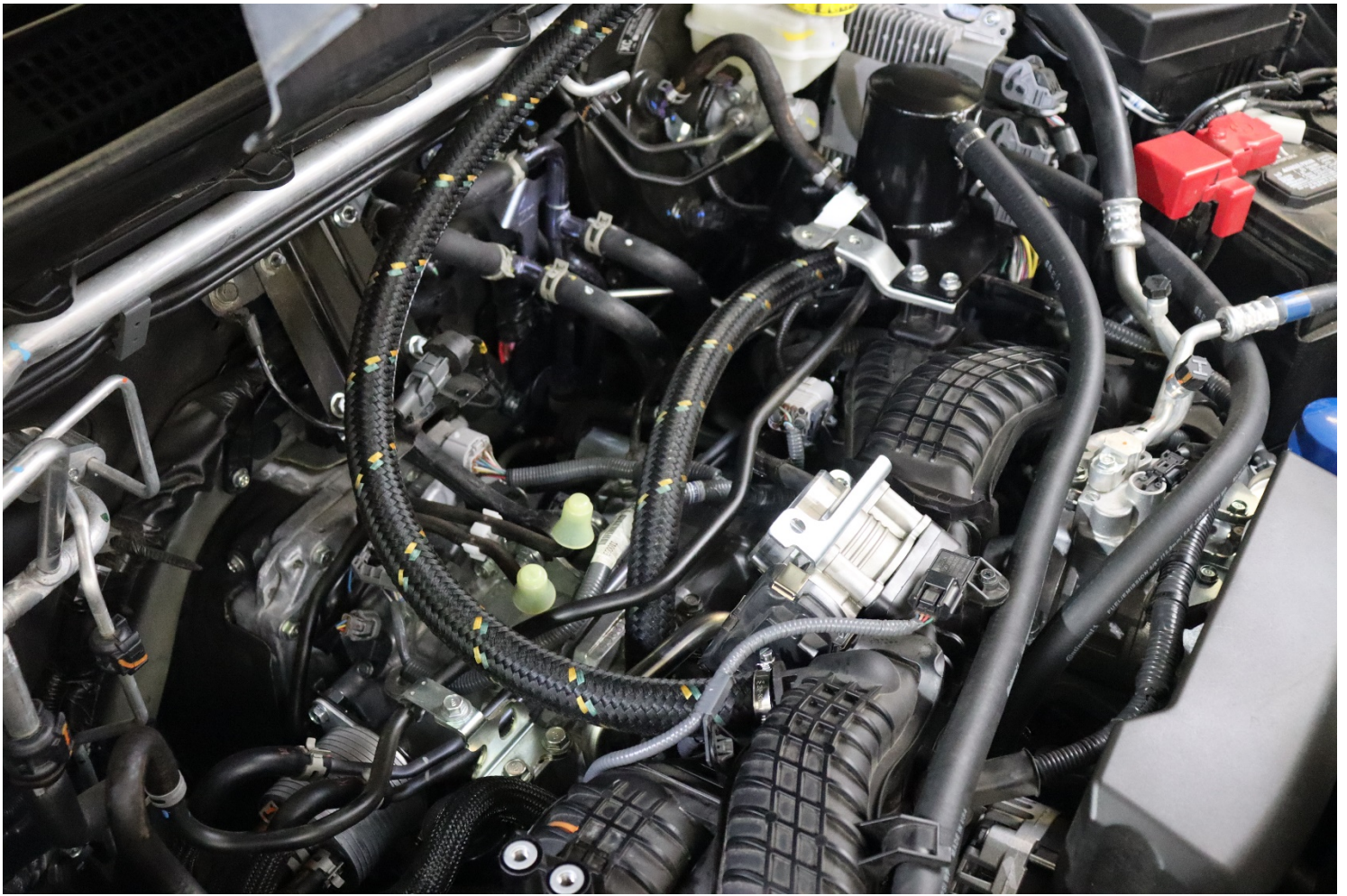


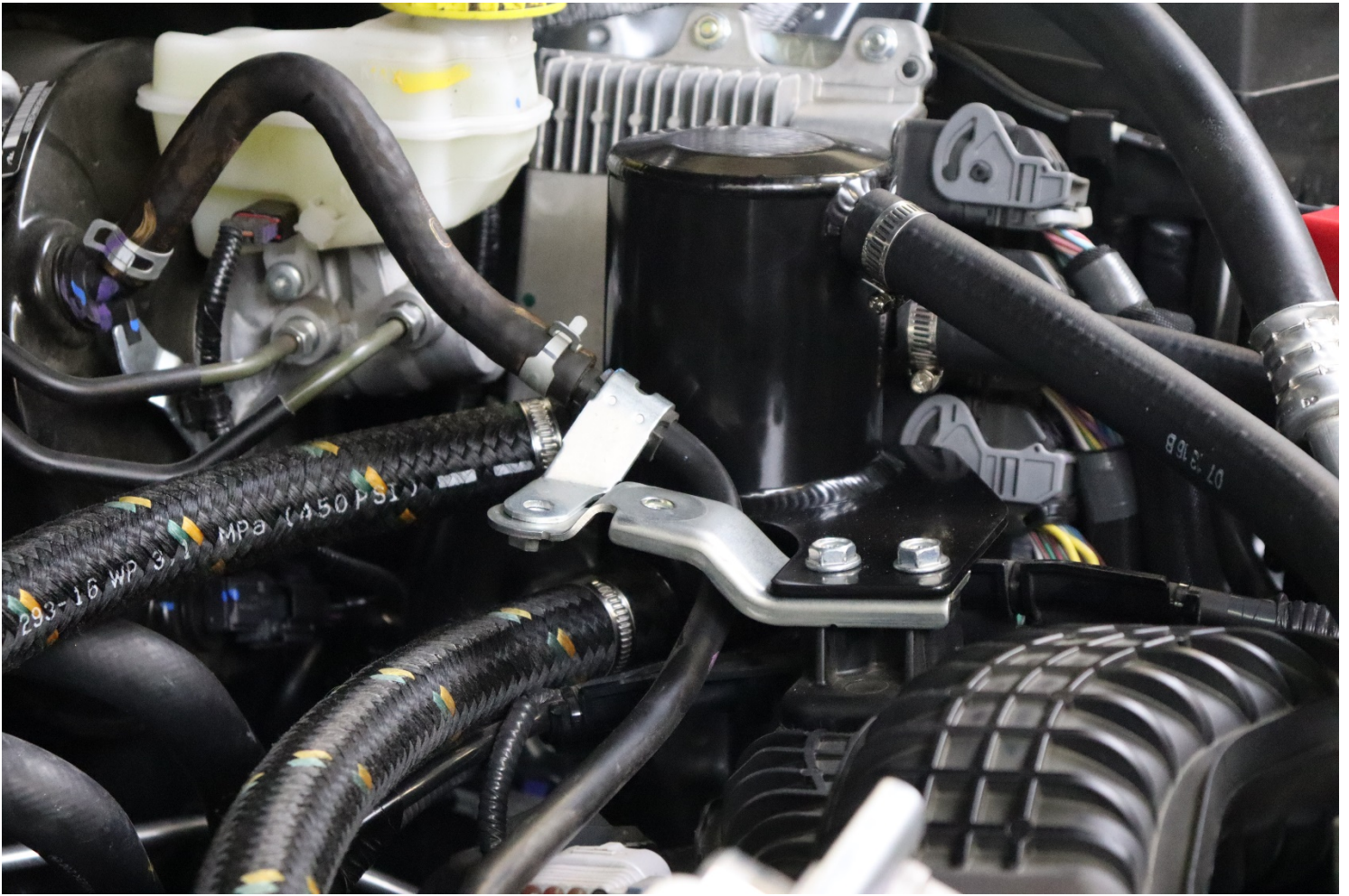
14. Route the 21" length of 7/8" hose from the block to the lower 7/8" cannister port and fasten with hose clamps.



15. Next route the 29" length of 7/8" hose from the manifold to the upper 7/8" port on the AOS cannister.

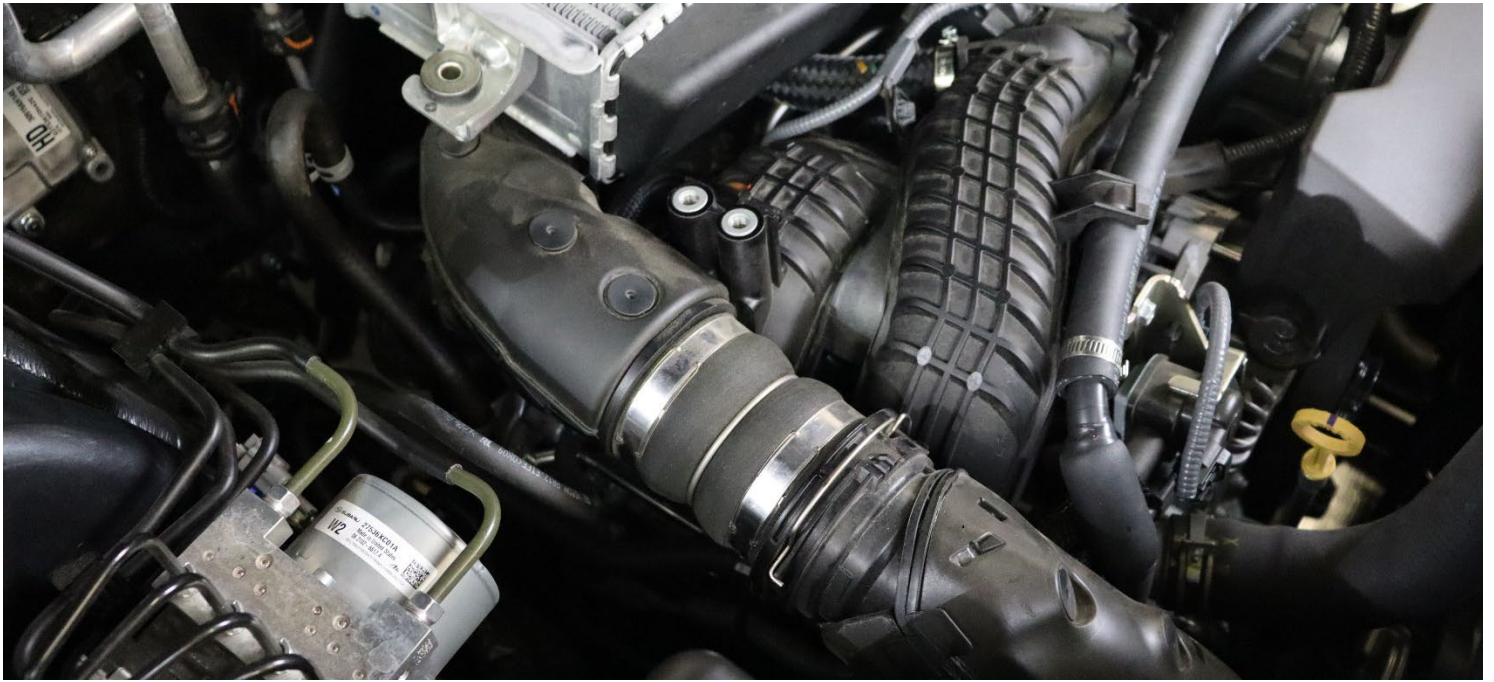




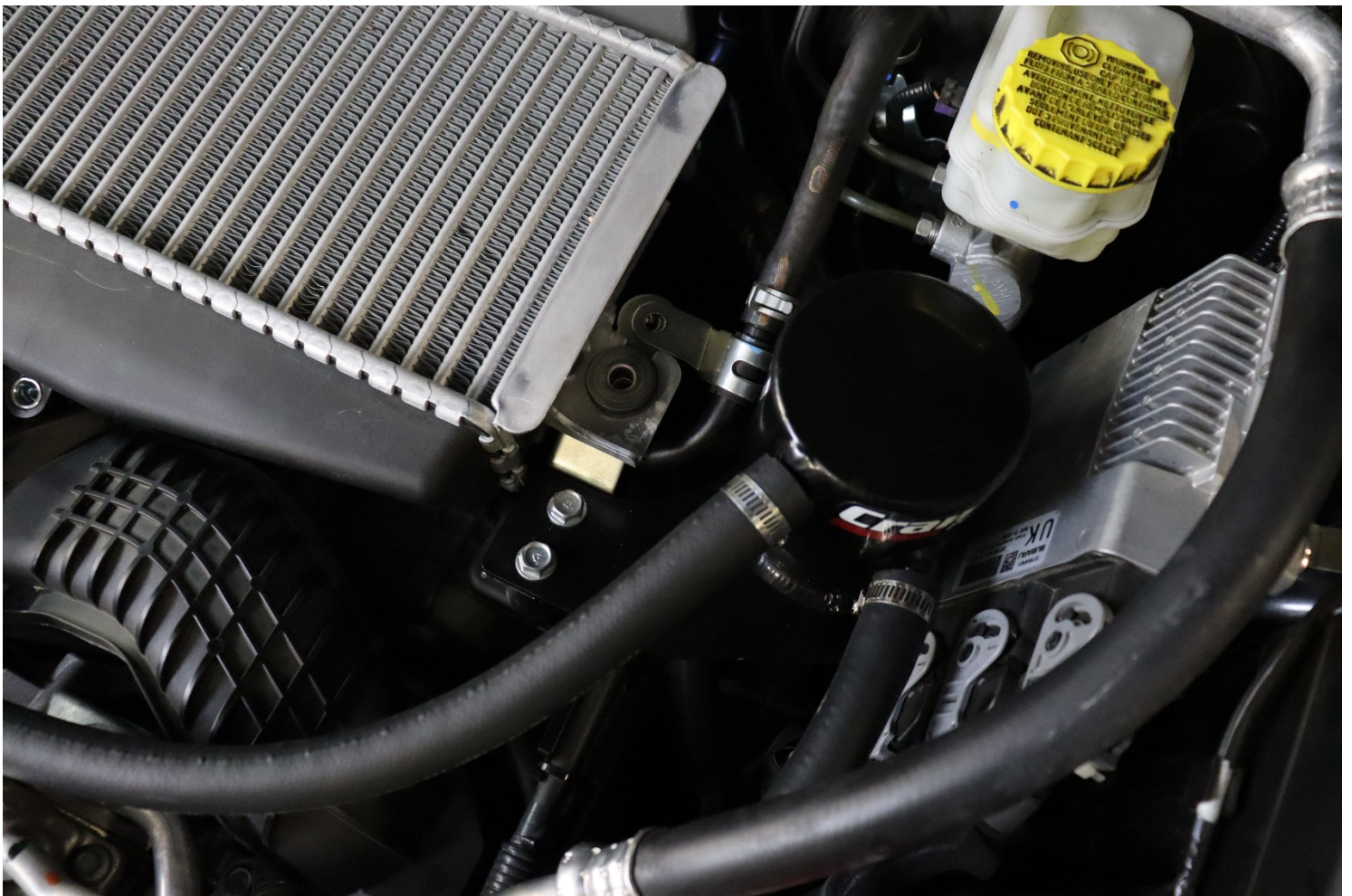


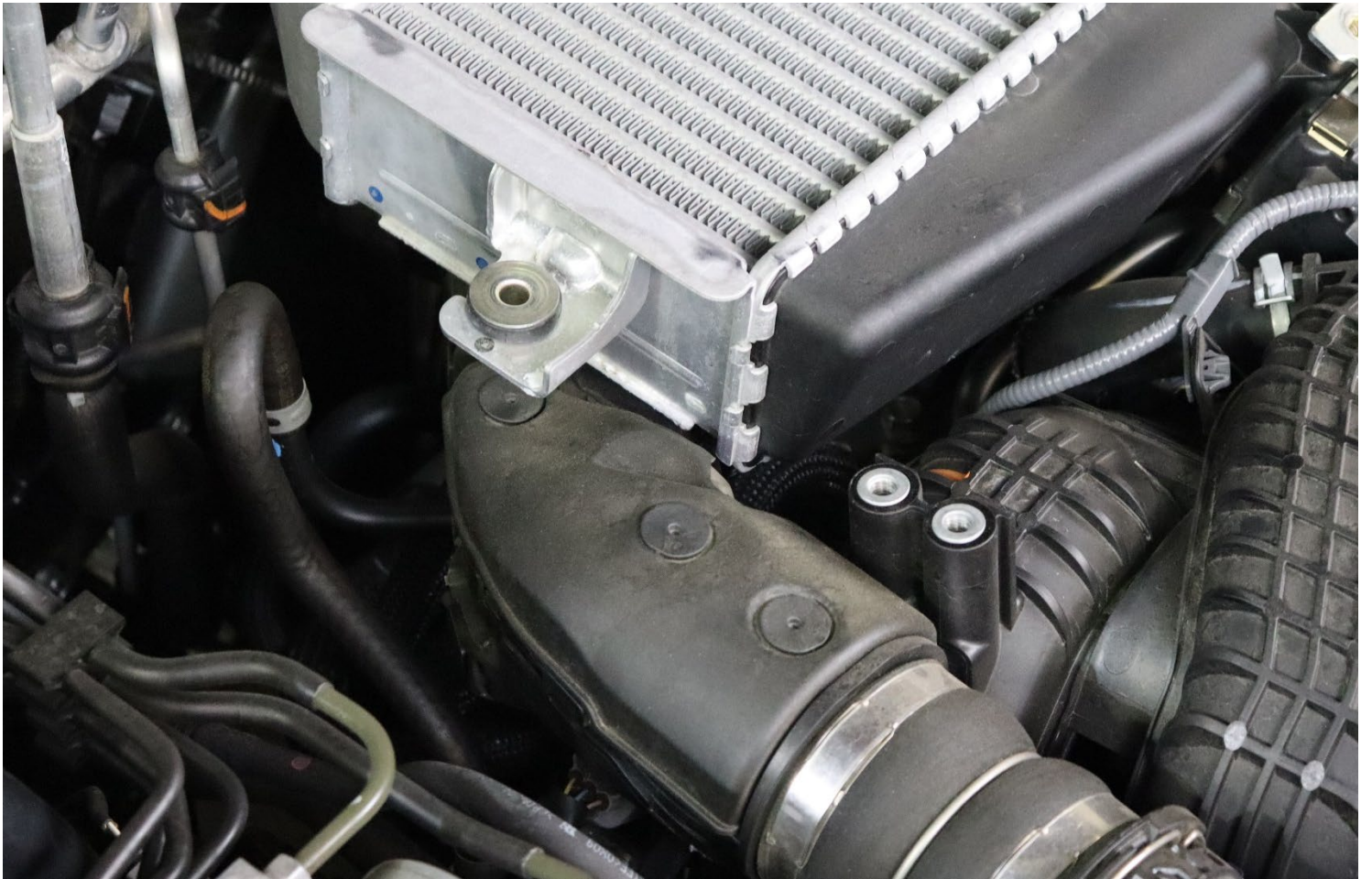
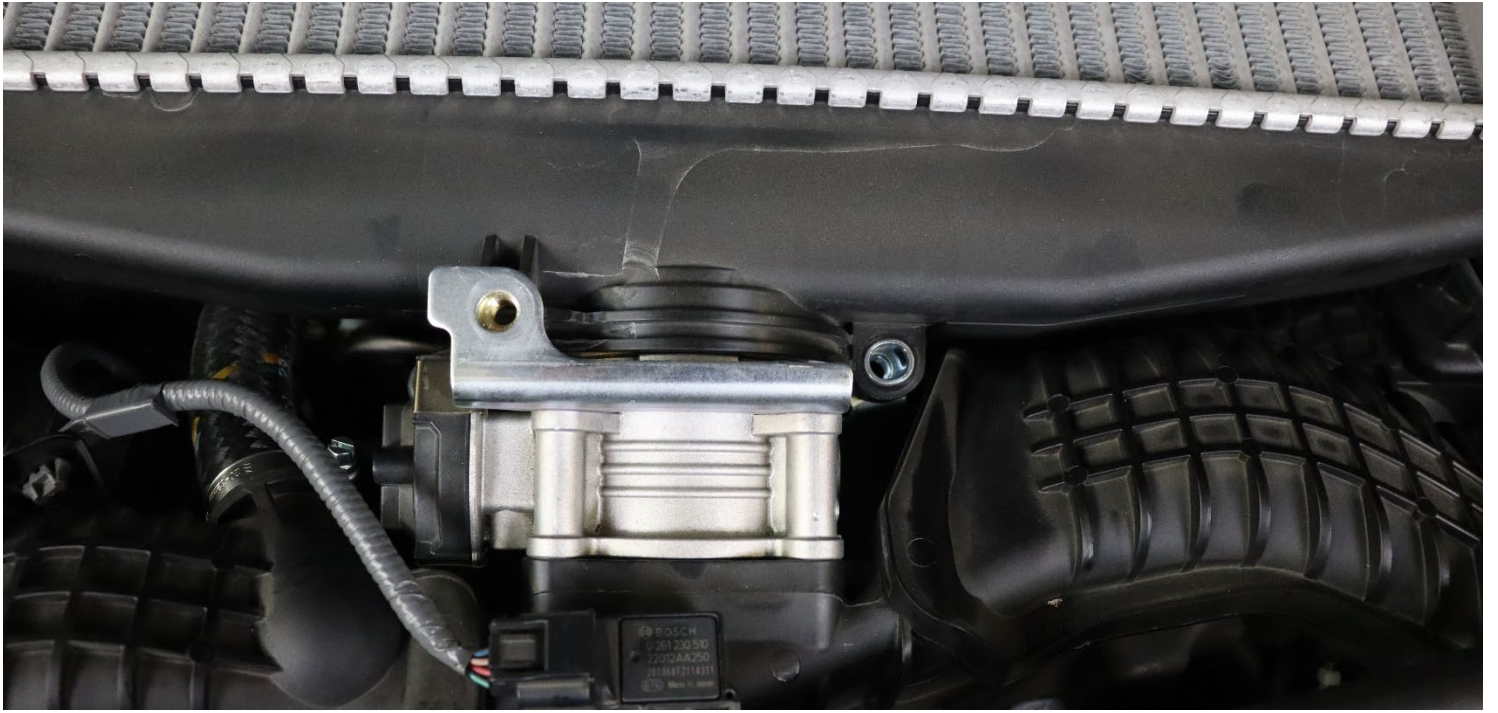
16. Place the manifold back into its original location. Connect the charge tube to the intercooler inlet tube.

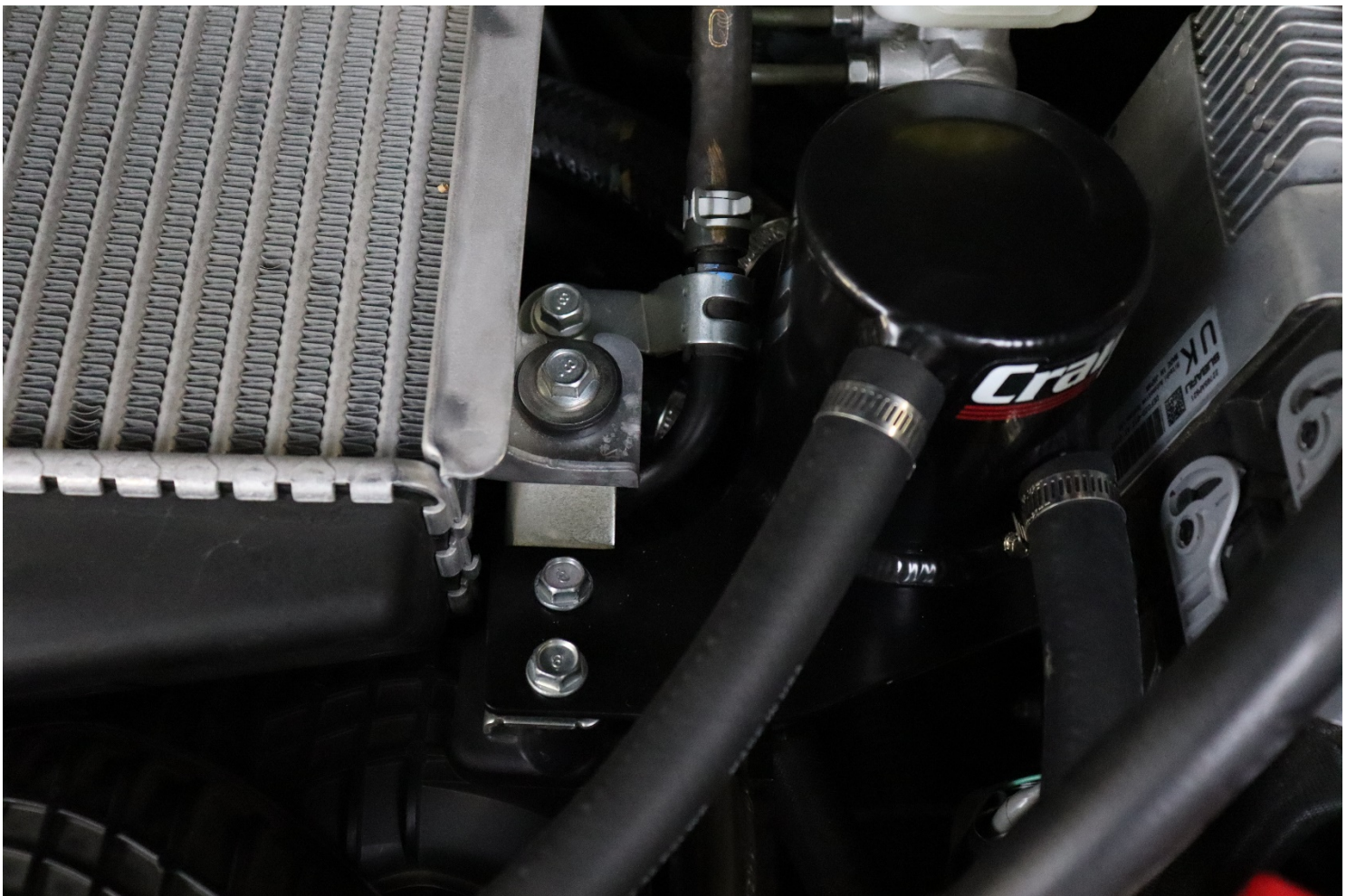
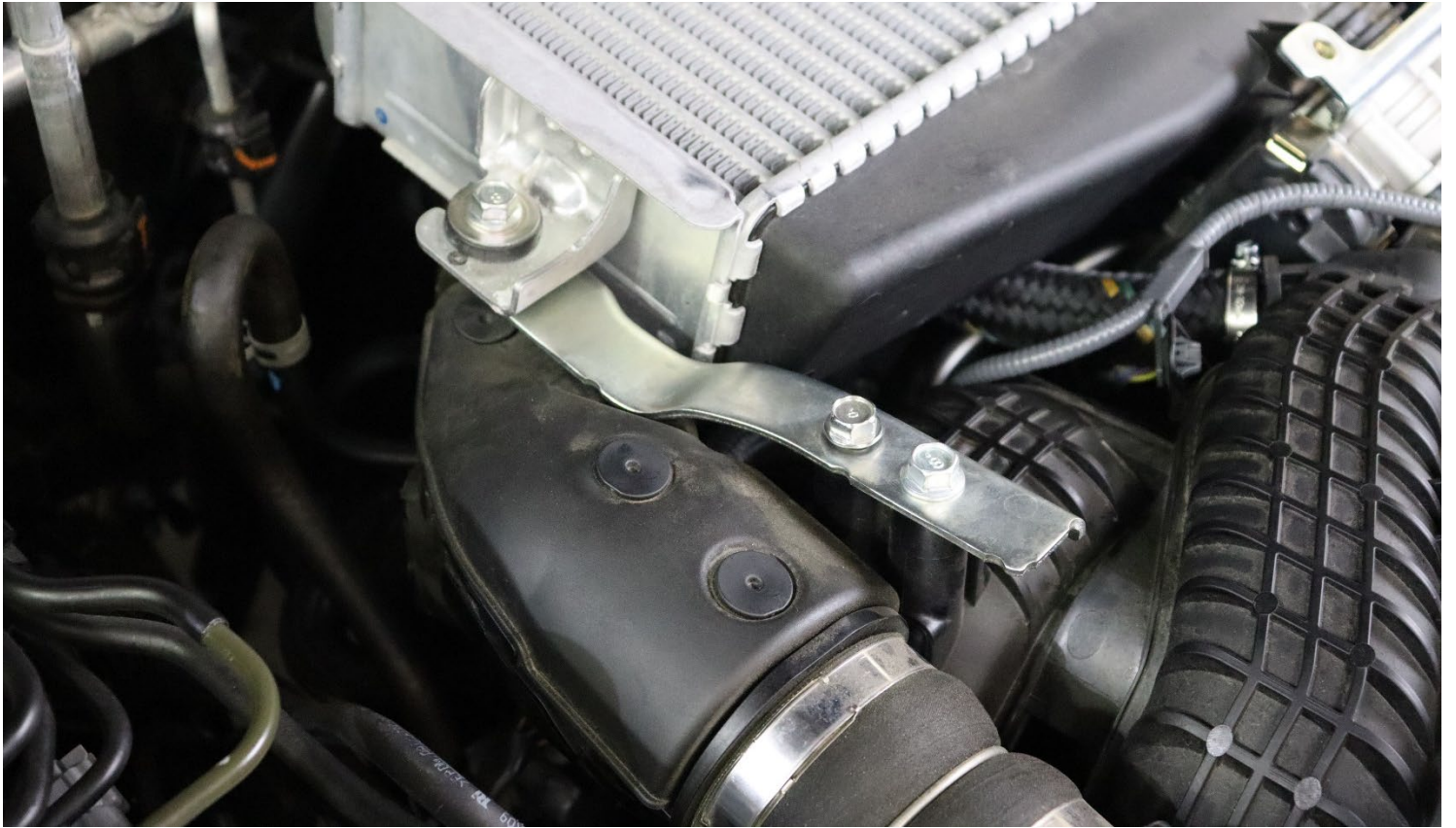




17. Line up the intercooler mount brackets and reinstall the original 12 MM bolts removed in step 1 to fasten the intercooler in place.









18. Enjoy the benefits of your new V3 AOS!



Thank you for choosing Crawford Performance!

Please feel free to contact us for any questions or comments! We are here to help. Celebrate your freshly finished install by cracking a beer and pouring one out for your chewed-up arms.

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