IAG Air / Oil Separator (AOS) For 2010-2014 WRX

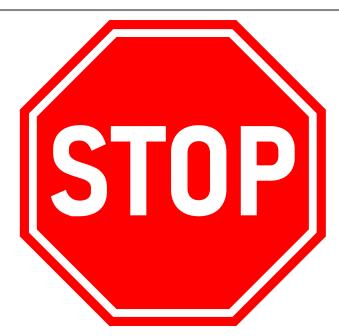




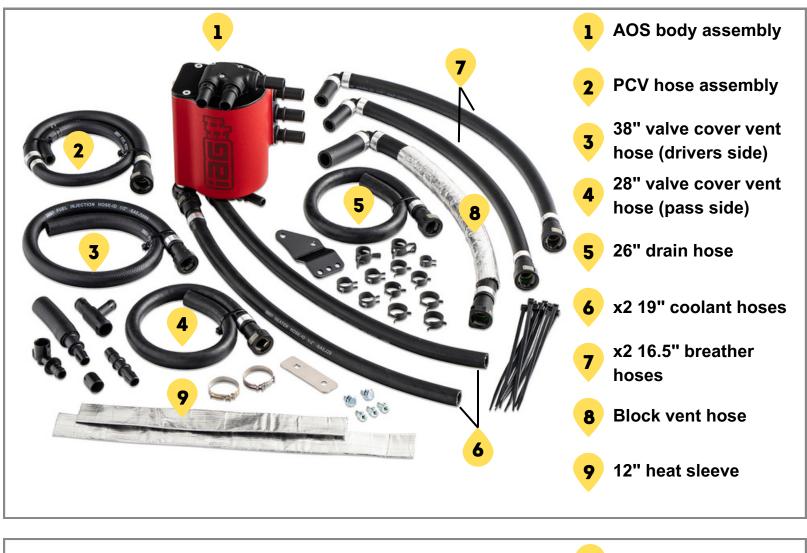


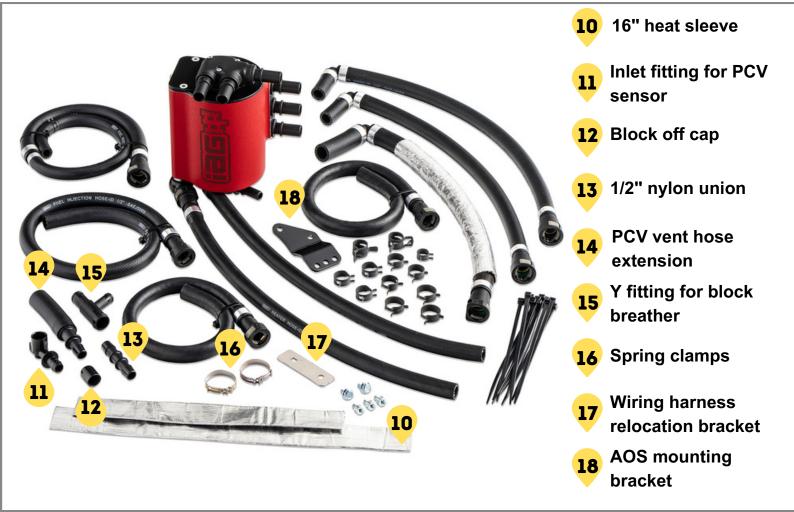
IAG-ENG-7186 IAG Air / Oil Separator (AOS) 2010-2014 Subaru WRX

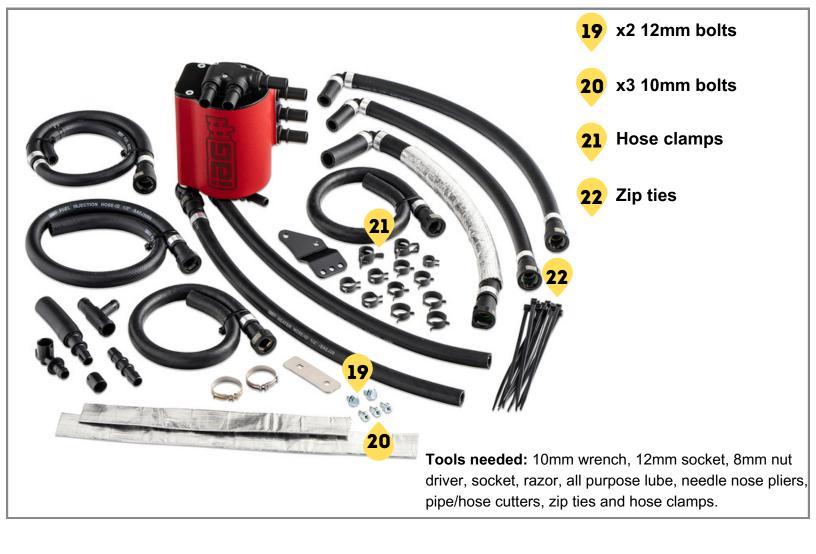
Congratulations on the purchase of your Air/Oil Separator (AOS) and thank you for choosing IAG Performance. This installation manual is intended to guide you through the modification of the factory PCV system and the installation of the IAG AOS. If you already have an aftermarket catch can or AOS installed, please consult the specific instructions for your hardware to aid in its removal. PLEASE ENSURE THE VEHICLE IS COMPLETELY COOL BEFORE STARTING THE INSTALLATION.



Please read through the entire instruction manual before beginning work on your vehicle. You will not use all parts in this kit depending on the application. If you encounter any problems or have questions please stop and contact our support team at 410-840-3555 or email us at support@iagperformance.com for help.









Step 1

Using a 10mm wrench, remove the negative battery terminal.



Step 2 Using a 12mm socket, remove the three bolts on the



Step 3 Loosen the clamp on the two BPV hoses.

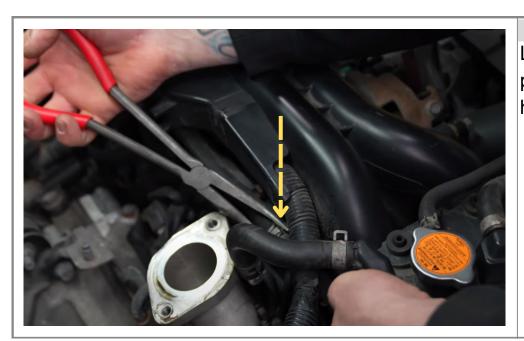
Disconnect the two hoses.



Step 4
Loosen the throttle body clamp.



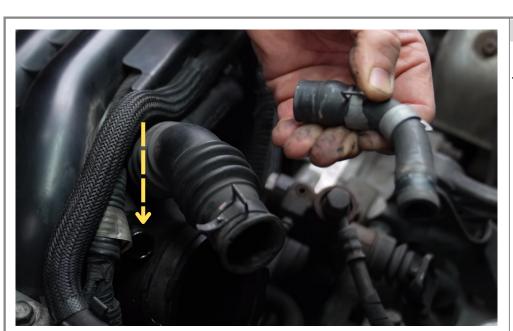
Step 5
Pull up on intercooler to remove from vehicle.



Step 6
Loosen clamp and remove the passenger side valve cover hose.

Step 6 pt.2





Step 7
Loosen the clamp and remove the drivers side valve cover hose.



Step 8
With a pick loosen tab on the block breather hose.



Step 9
Remove the PCV connector.

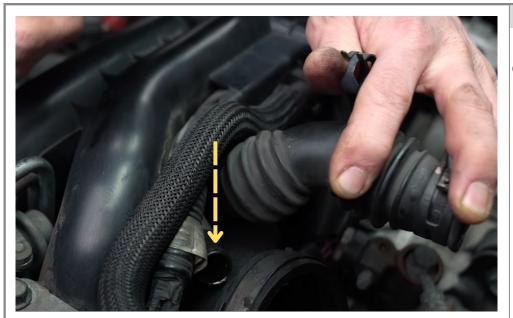


Step 10
Using a pair of needle nose
pliers loosen and slide down
clamp and remove vacuum line.



Step 11

Loosen lower clamp on block breather hose and remove breather assembly.



Step 12
Install block-off cap to valve cover breather on drivers side.



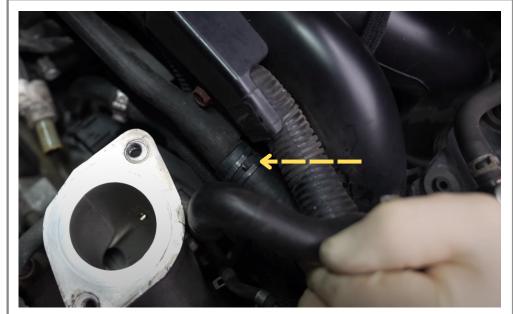


Step 13
Slide the 5/8" clamp onto the cap and secure.



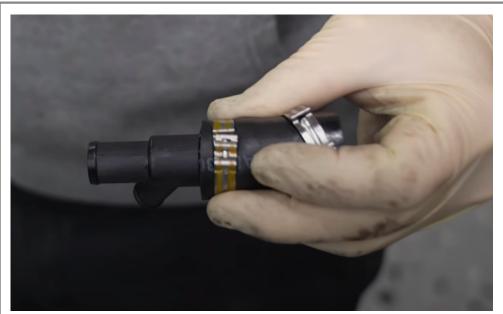
Step 14
Install fitting and two clamps onto new valve cover hose.





Step 15
Install new valve cover hose and secure clamp.

Reference step 6.



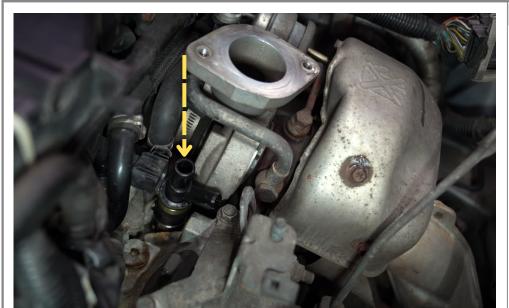
Step 16 e all purpose lu

Use some all purpose lube grease the hose.

Install two clamps onto hose.

Tighten the top clamp and leave the bottom loose.





Step 17

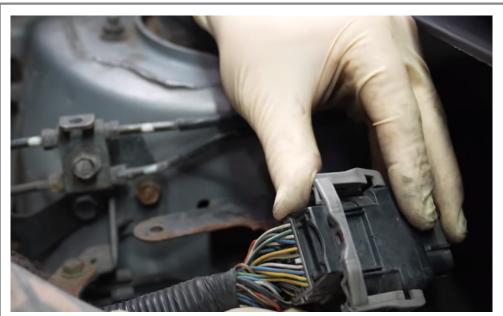
Install new breather assembly.

Using a pick to tighten the bottom clamp.

Reference step 11.



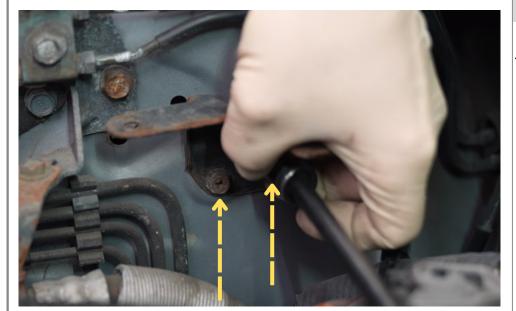
Step 18
Locate the main wiring harness connector on the passenger side.



Step 19
Slide the connector off the clip that secures the connector to the bracket.



Step 20
Use pliers to squeeze the end of the clip and push it through the hole.



Using a 10mm socket unbolt the two bolts and remove the bracket.



Step 22

Use all purpose lube to grease the fitting on the 26 inch hose.



Note: These fittings are preinstalled and torqued. The fitting is designed to swivel around the bolt. Do not remove or tighten further.



Step 23

Install hose to bottom of AOS can.

Note: These fittings are preinstalled and torqued. The fitting is designed to swivel around the bolt. Do not remove or tighten further.

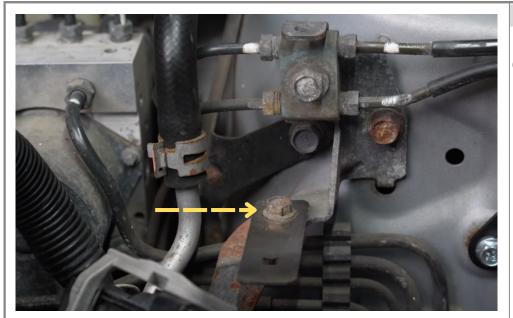


Step 24
Install metal bracket to AOS and tighten until snug. Leave one hole exposed on bottom of AOS.



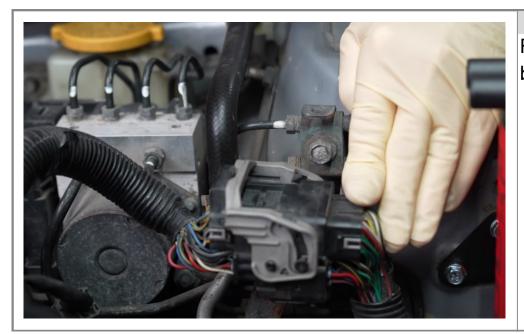


Step 25
Install the bracket and AOS onto the strut tower using a 10mm wrench.



Step 26
Install new harness bracket with OEM bolt.

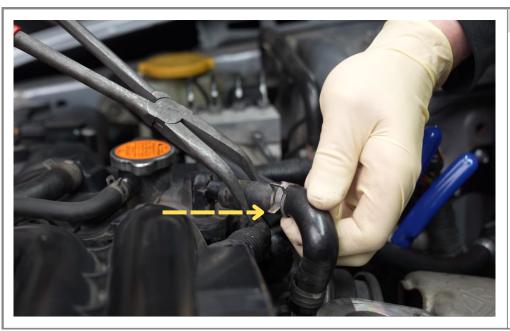




Step 27
Reinstall wiring harness to new bracket.

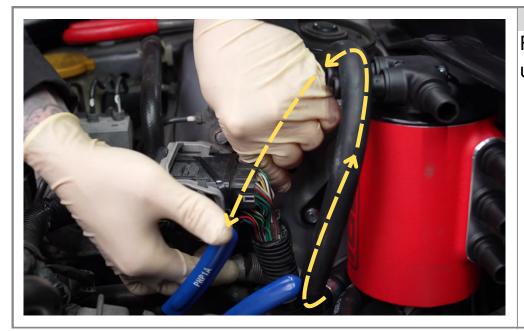


Step 28
Using hose clamping pliers,
clamp the turbo coolant hose.

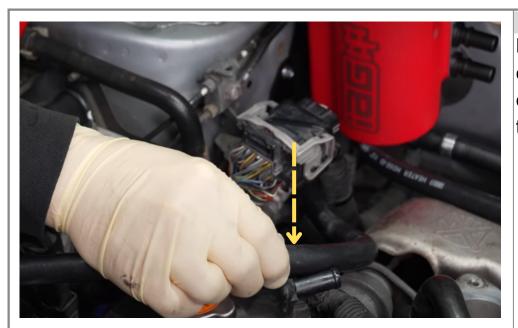


Step 29
Use a pair of needle nose pliers to loosen clamp and remove line from upper expansion tank.

Note: A small amount of coolant may come out of line.



Step 30
Route coolant line from AOS under wiring harness.

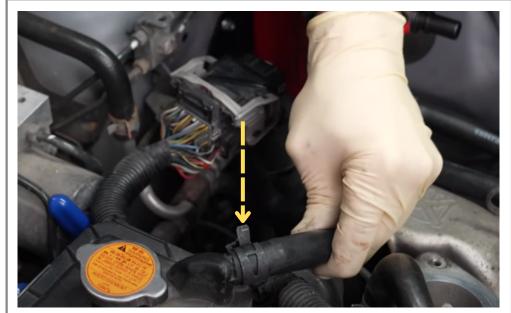


Step 31

Measure the length of the coolant line and mark where to cut. Use the upper expansion tank as a reference.

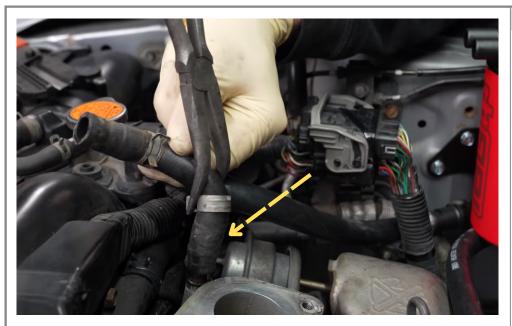


Step 32
Cut excess line.



Install clamp onto coolant line and attach line to coolant tank.

Secure clamp on line.

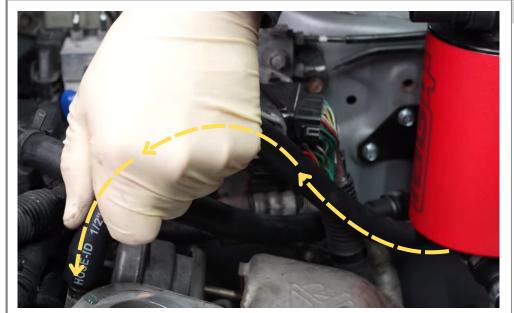


Step 34

Loosen clamp and remove upper OEM turbo coolant line assembly.

Reference step 29 for first part of removal.

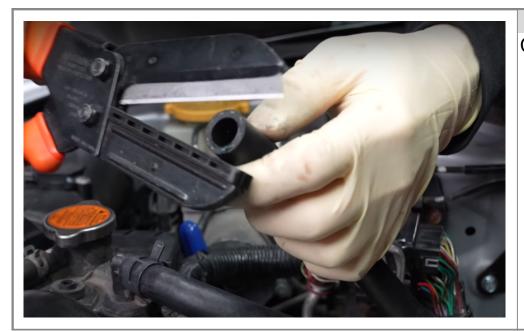
Note: A small amount of coolant may come out of line.



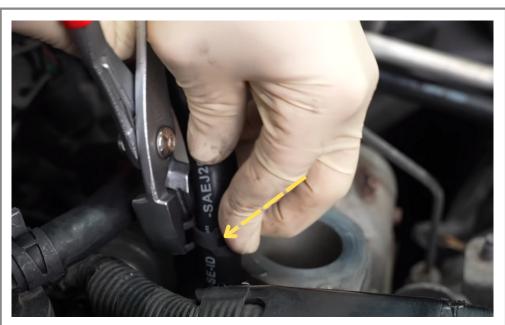
Step 35

Route the coolant line.

Measure the length of the line that needs to be cut.



Cut excess line.



Step 37

Slide clamp on coolant line and install line onto OEM fitting.

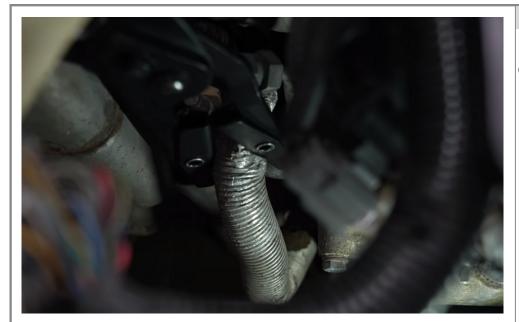
Secure clamp onto line.



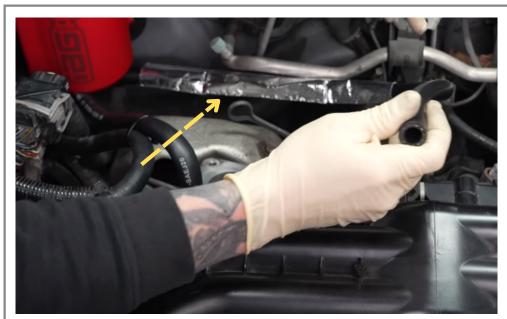
Step 38

Zip tie the two coolant lines together.

Cut excess zip tie.

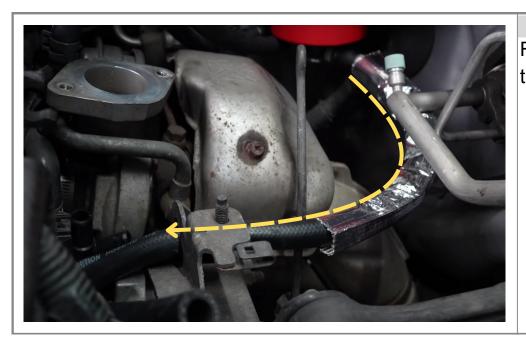


Step 39
Unclamp the coolant hose clamp.



Step 40
Install 12" heat sleeve to AOS drain hose.





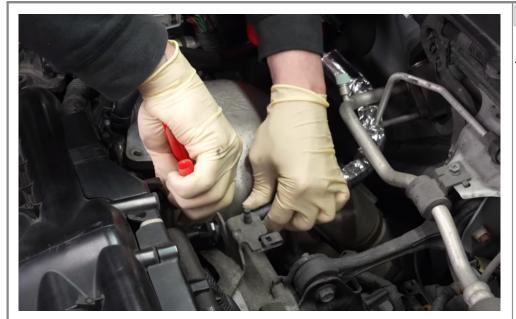
Step 41
Route drain hose and thread through bracket.



Step 42
Measure the length of the drain and mark where to cut.



Step 43
Cut excess line.

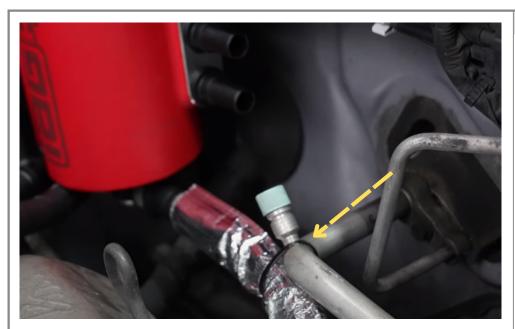


Step 44
Route drain line back through the bracket.

Reference step 42.

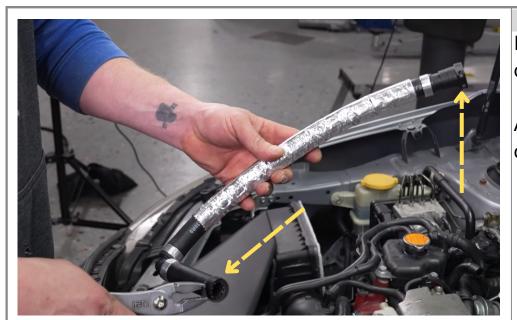


Step 45
Slide clamp onto drain line and install line onto breather assembly.



Step 46
Attach drain hose to AC hardline using a zip tie.

Cut excess zip tie.

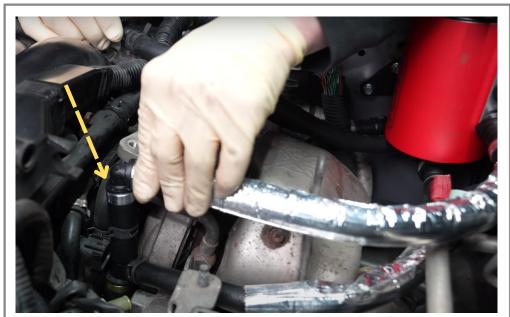


Step 47 Install supplied clamp to 90 degree elbow on hose.

Apply some all purpose lube to other end.

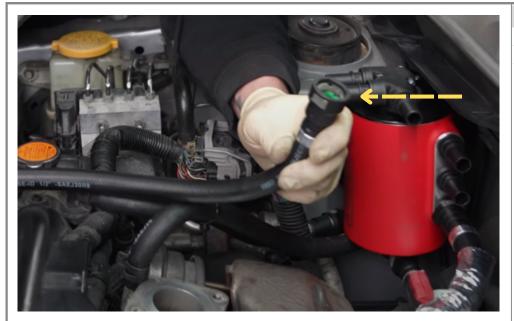


Step 48
Connect the hose to bottom port of AOS can.



Step 49
Install 90 degree vent hose fitting to top of breather assembly.

Use supplied clamp to secure.

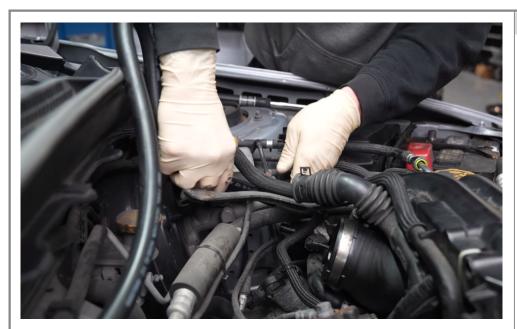


Step 50
Apply some all purpose lube to fitting on 38 inch hose.





Step 51
Install hose onto top port of AOS.

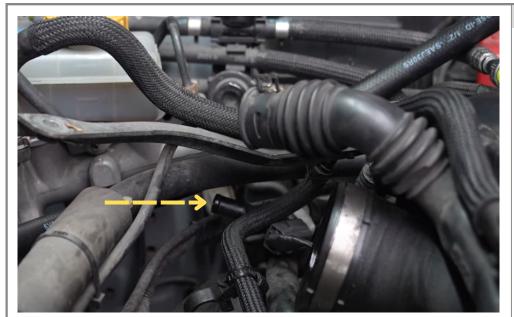


Step 52 Route hose as shown.

Continued in next step.



Step 52 pt.2

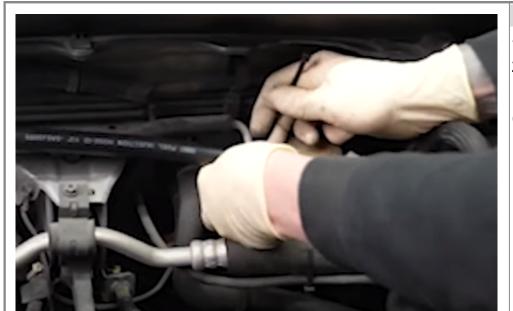


Step 53
Measure hose to where it fits up to the OEM fitting and cut excess.



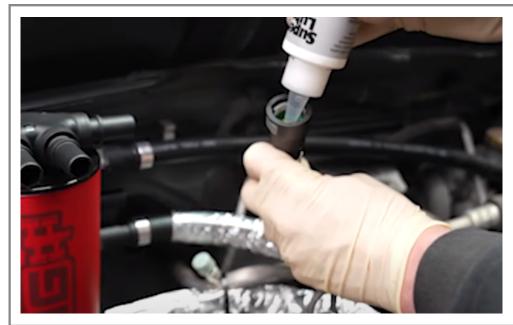
Step 54
Slide clamp on coolant line and install line onto OEM fitting.

Secure clamp onto line.



Step 55 Secure hose to AC line using a zip tie.

Cut excess zip tie.



Step 56
With some all purpose lube grease the fitting of the 28 inch vent hose.





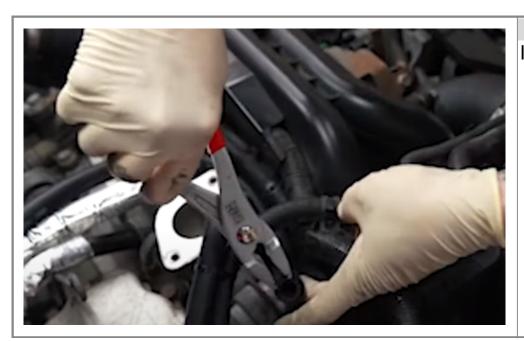
Step 57
Attach hose to middle fitting on the AOS.



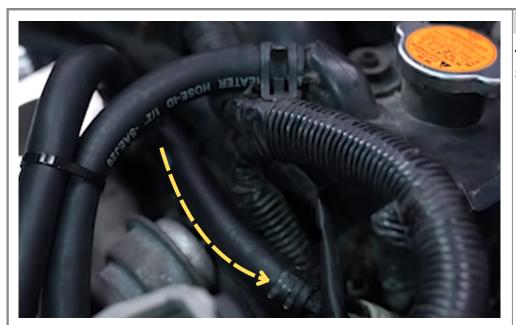
Step 60
Route hose to the passenger side valve cover.



Step 61
Measure and cut excess hose.



Step 62
Install supplied clamp to hose.



Step 63
Attach valve cover hose and secure the clamp.



Step 64
With some all purpose lube grease the fitting.



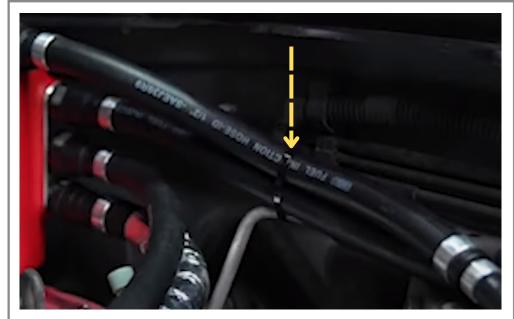


Step 65
Install the PCV hose to the top of AOS can.



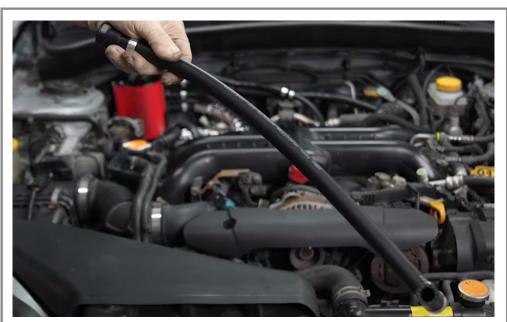
Step 66
Install PCV to intake manifold port and secure with clamp.

Reference step 10.



Step 67
Secure hose to the AC hard line with a zip tie.

Cut excess zip tie.



Step 68

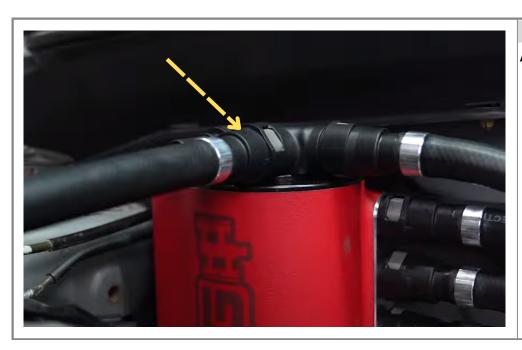
Take one of the 16.5 inch 90 degree hoses and cut off the end.



Step 68 pt.2



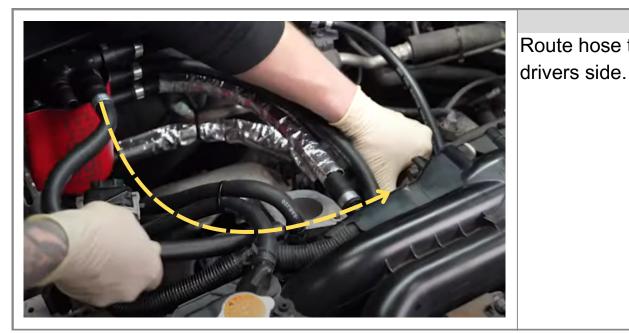
Step 69
With some all purpose lube grease the fitting on the other



Step 70
Attach fitting to top of AOS can.



Step 71
Using a pair of pliers install the supplied clamp to the open end of the hose.



Step 80 Route hose towards to the



Step 82
Connect breather hose to the PCV connector and secure the clamp.

Reference step 9.



Step 83 Secure line using a zip tie.

Cut excess zip tie.



Step 84
Install the other 16.5" breather
hose to top left port on AOS.



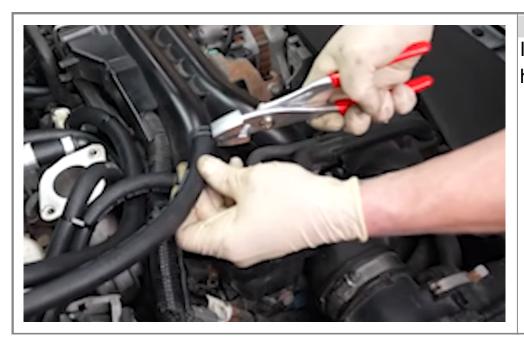


Step 85

Measure hose so it fits up to valve cover fitting.

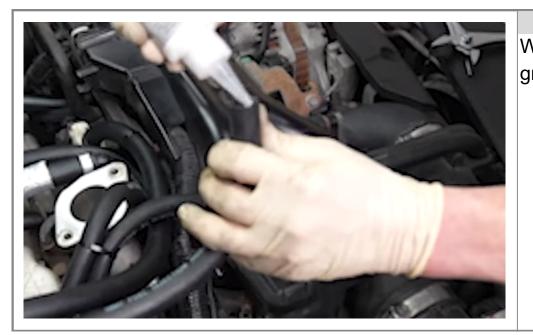
Cut excess hose.

Reference step 6.



Step 86

Install supplied clamp to end of hose.



Step 87
With some all purpose lube great the end of the hose.

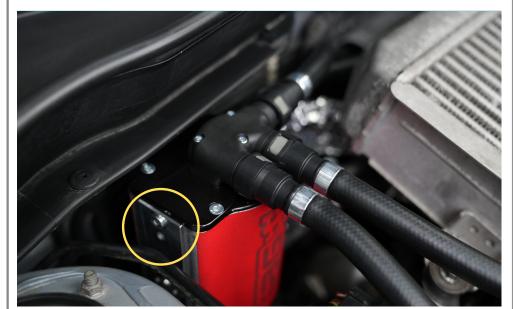


Step 88
Install hose onto valve cover fitting near intake manifold.

Secure the clamp.



Step 89
Reinstall the top mount intercooler, BPV hoses and intercooler brackets.



Loosen the AOS coolant breather fitting. Top off any coolant lost during installation. Start the vehicle and let it come to operating temperature. Some coolant will begin to weep from this hole. Once the air has been released tighten the bleeder fitting.



If you have any questions about the product or install please reach out to support@iagperformance.com or call 410-840-3555