



IAG-ENG-7186 IAG Air / Oil Separator (AOS)

Fitment:

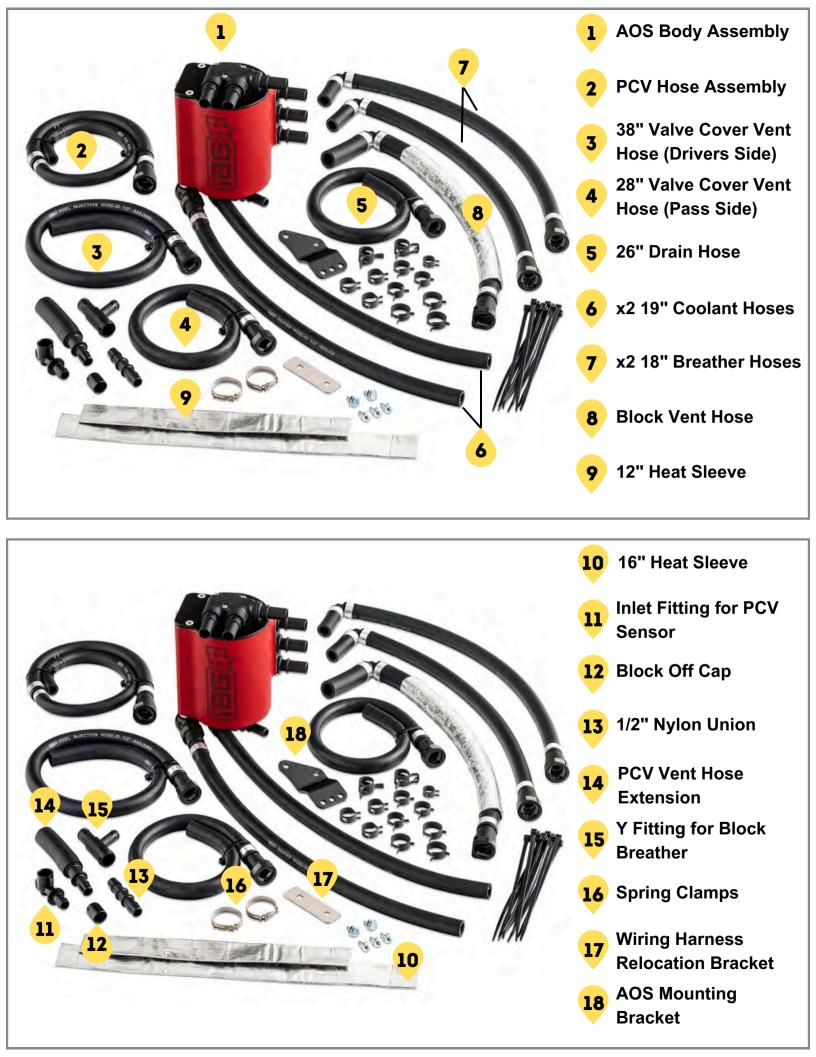
2010-2014 Subaru Impreza WRX EJ 2.5L TC 2009-2013 Subaru Forester XT EJ 2.5L TC

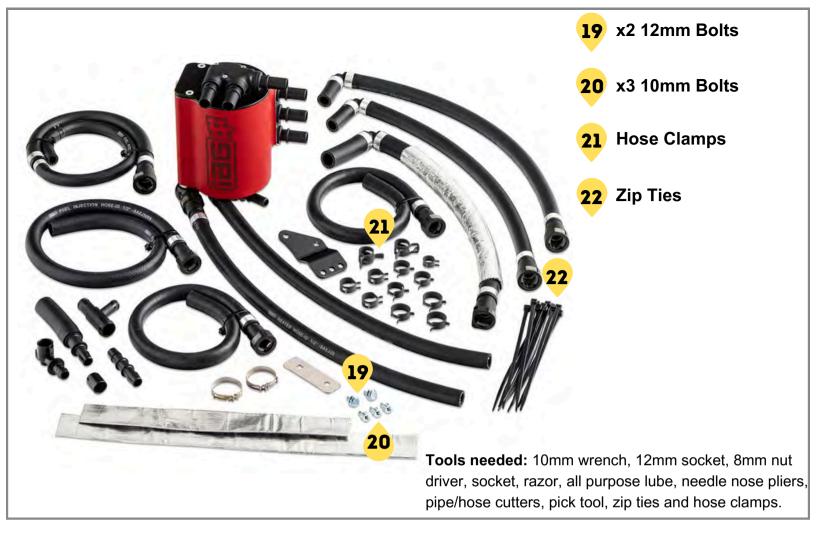
Part # IAG-ENG-7186BK, IAG-ENG-7186RD, IAG-ENG-7186NY, IAG-ENG-7186GT, IAG-ENG-7186WRB, IAG-ENG-7186HP

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 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.







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



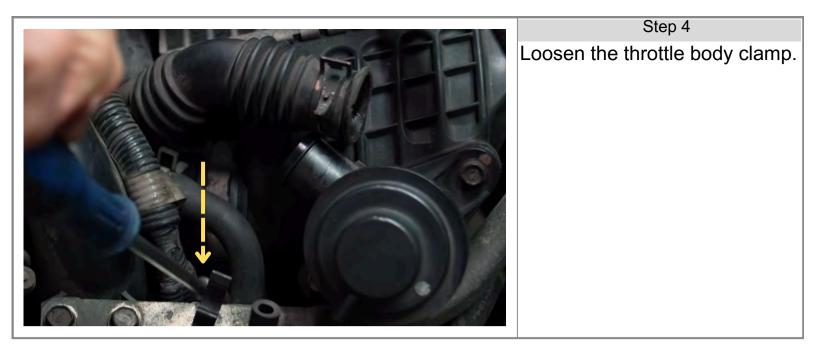


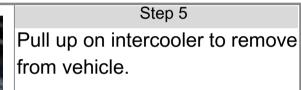
Using a 12mm socket, remove the three bolts on the intercooler.



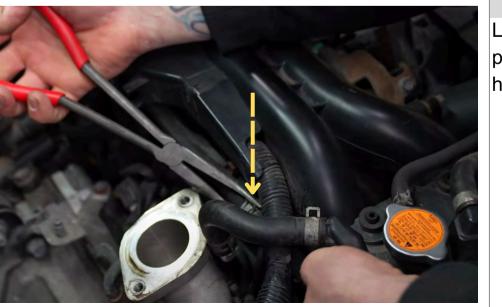
Step 3 Loosen the clamp on the two BPV hoses.

Disconnect the two hoses.









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

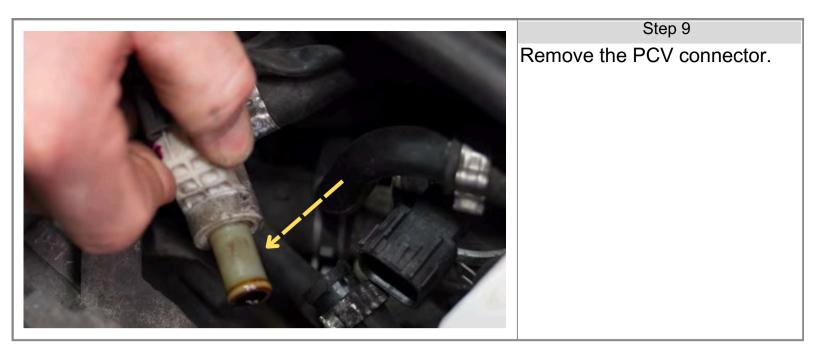


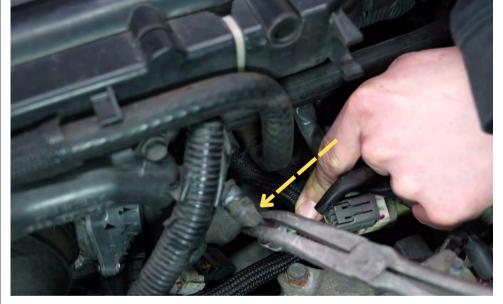


Loosen the clamp and remove the drivers side valve cover hose.

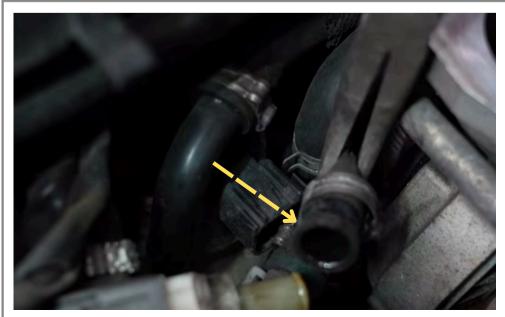


Step 8 With a pick loosen tab on the block breather hose.

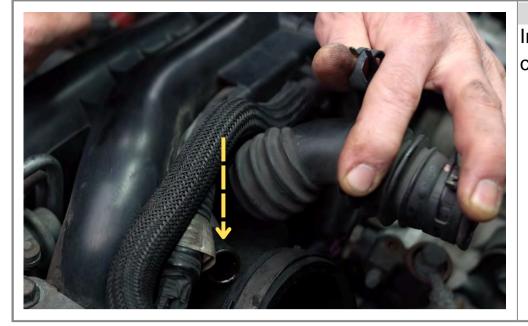




Using a pair of needle nose pliers loosen and slide down clamp and remove vacuum line.

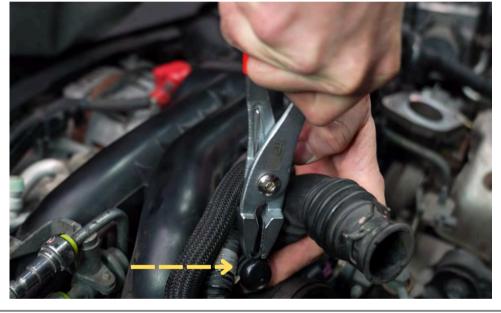


Step 11 Loosen lower clamp on block breather hose and remove breather assembly.





Step 13

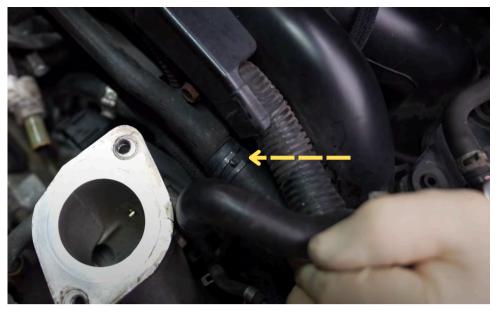


Slide the 5/8" clamp onto the cap and secure.



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





Install new valve cover hose and secure clamp.

Reference step 6.

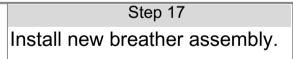


Step 16 Apply a small amount of all purpose lube to hose.

Install two clamps onto hose.

Tighten the top clamp and leave the bottom loose.





Use a pick to tighten the bottom clamp.

Reference step 11.

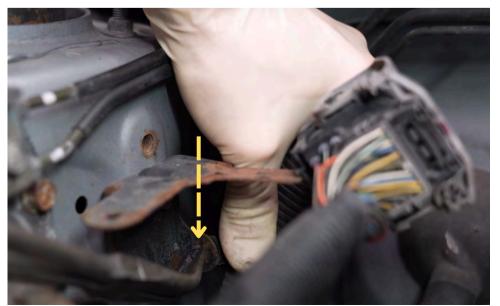




Locate the main wiring harness connector on the passenger side.

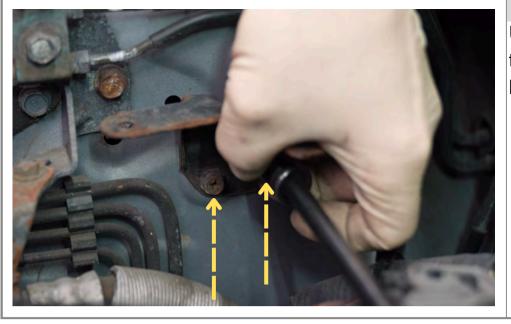


Step 19 Slide the connector off the clip that secures the connector to the bracket.



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

This will release the clip attaching the wiring connector.



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





Apply a small amount of lube to the fitting on the 26 inch drain 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 drain 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.

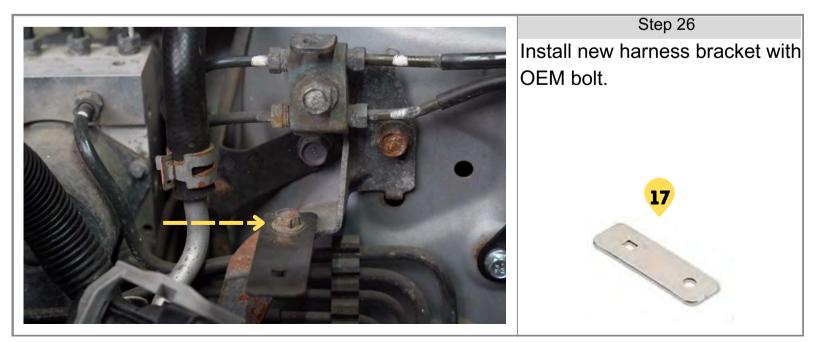


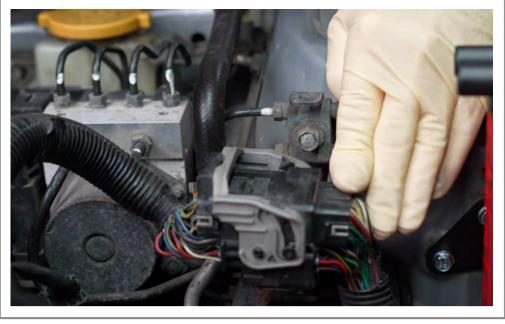
Install metal bracket to AOS and tighten until snug. Leave one hole exposed on bottom of AOS.





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





Reinstall wiring harness to new bracket.



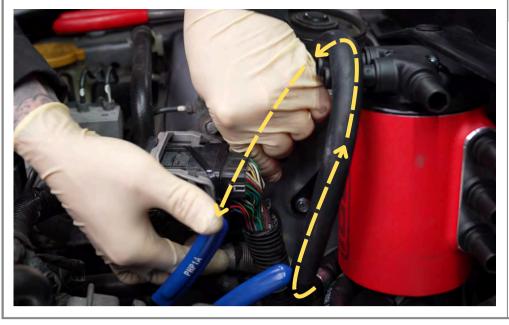


Using hose clamp pliers, clamp the turbo coolant hose.



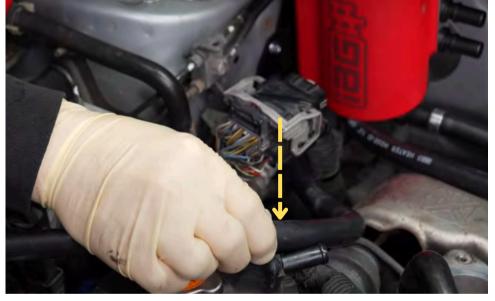
Step 29 Use a pair of needle nose pliers to loosen clamp and remove line from upper expansion tank.

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



Route coolant line from AOS under wiring harness.

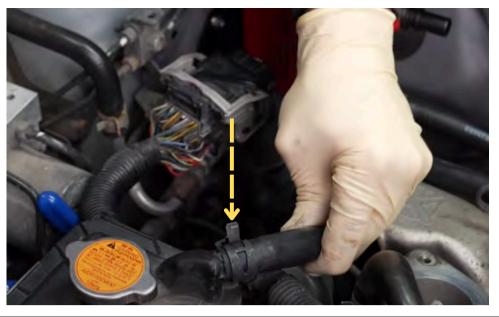




Measure the length of the coolant line and mark where to cut. Use the upper expansion tank as a reference.



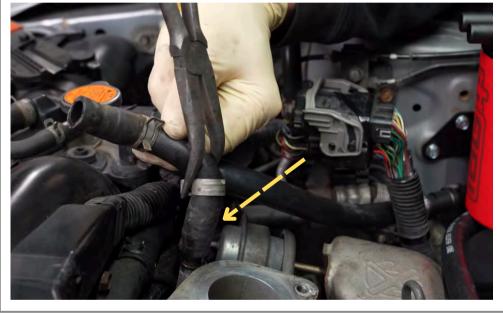
Step 32 Cut excess line.



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.

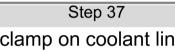


Step 35 Route the coolant line.

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

Cut excess line.







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

Secure clamp onto line.

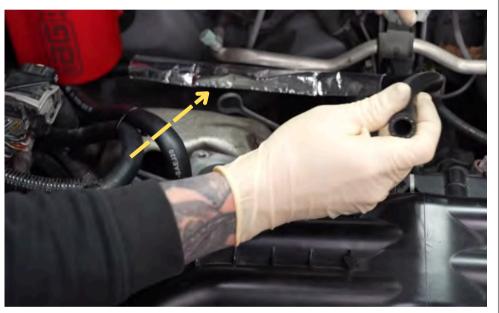


Step 38 Zip tie the two coolant lines together.

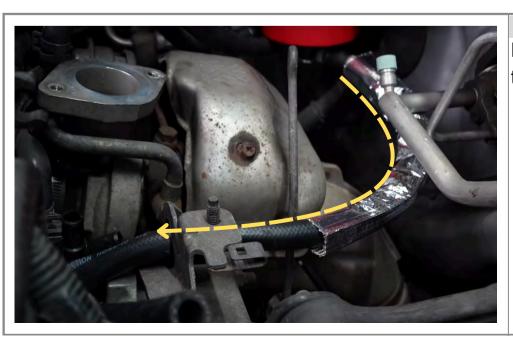
Cut excess zip tie.



Remove the coolant hose clamp from step 28.



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



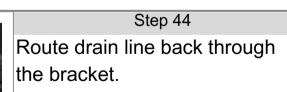
Step 41 Route drain hose and thread through bracket.

Step 43



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





Reference step 42.





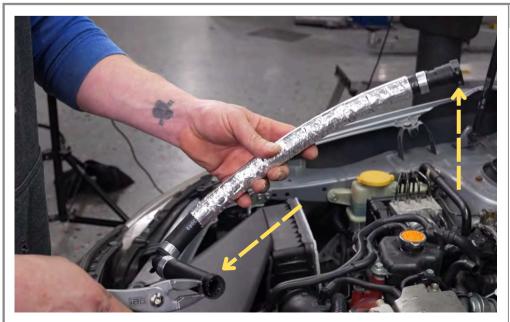
Slide clamp onto drain line and install line onto breather assembly.

Note: Make sure drain hose is at a downward slope for proper drainage.



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

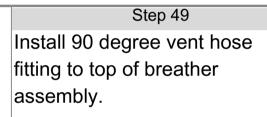
Cut excess zip tie.



Step 47 Install supplied clamp to 90 degree elbow on hose. Apply a small amount of lube to other end.



Connect the hose to bottom port of AOS can.



Use supplied clamp to secure.







Step 50

Step 51
Install hose onto top port of
AOS.

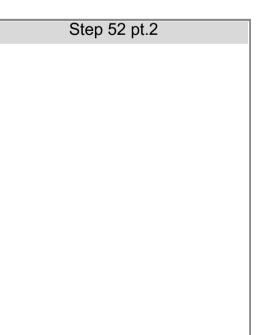


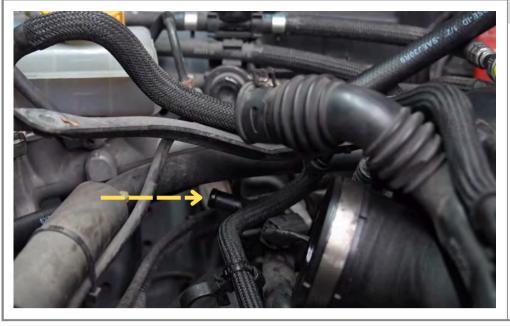
Route hose as shown.

Step 52

Continued in next step.





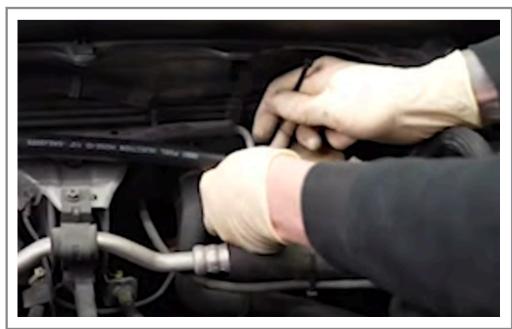


Measure hose to where it fits up to the OEM fitting and cut excess.



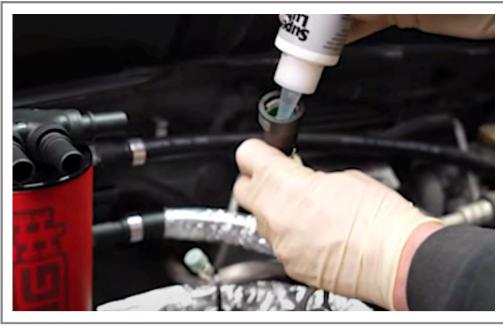
Step 54 Slide clamp on coolant line and install line onto OEM fitting.

Secure clamp onto line.



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

Cut excess zip tie.

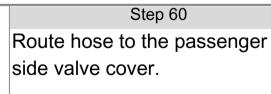


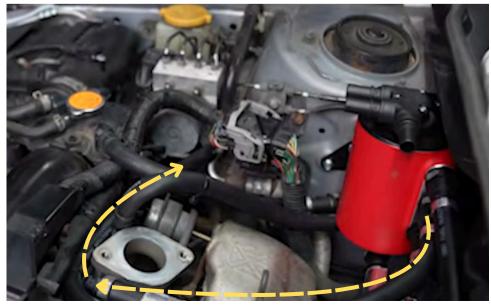
Apply a small amount of lube to the fitting of the 28 inch vent hose.



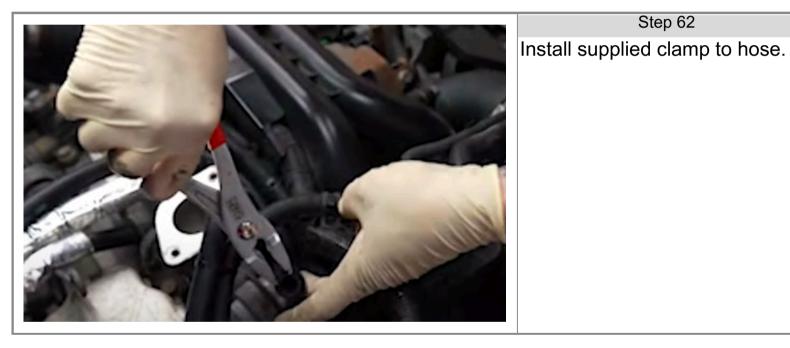


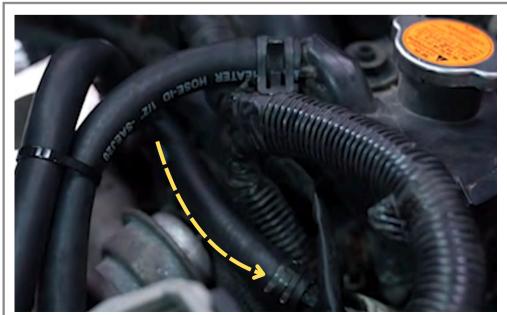
Step 57 Attach hose to middle fitting on the AOS.





Step 61
Measure and cut excess hose.

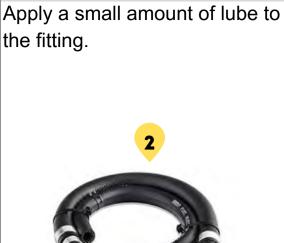


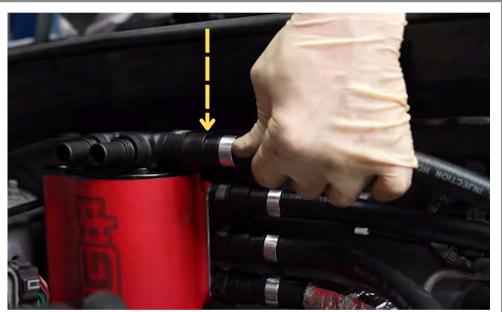


Step 63 Attach valve cover hose and secure the clamp.

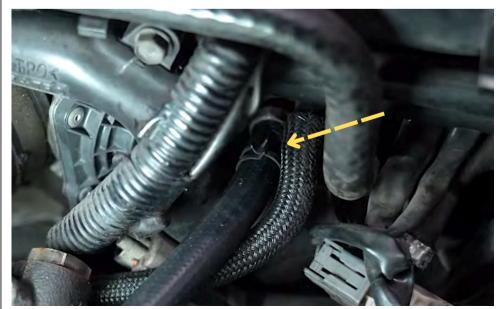
Step 62







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



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

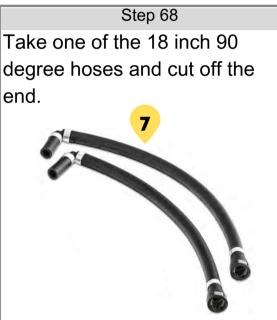
Reference step 10.



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

Cut excess zip tie.



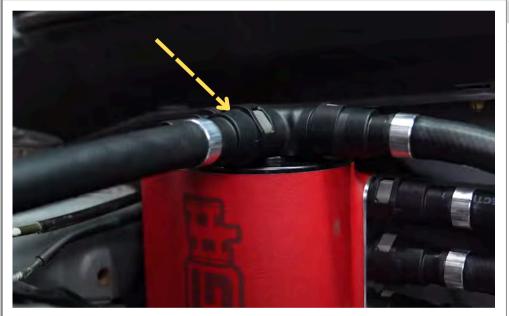


Step 68 pt.2





Apply a small amount of lube to the fitting on the other end.



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.



Route hose towards to the drivers side.



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.



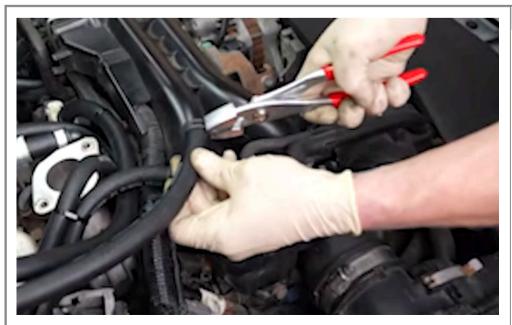
Step 84 Install the other 18 inch breather hose to top left port on AOS. 7



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.



Apply a small amount of lube to 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.



The included PCV valve should be replaced following the factory service and maintenance schedule. Please refer to the factory Subaru service guide for more information.



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