



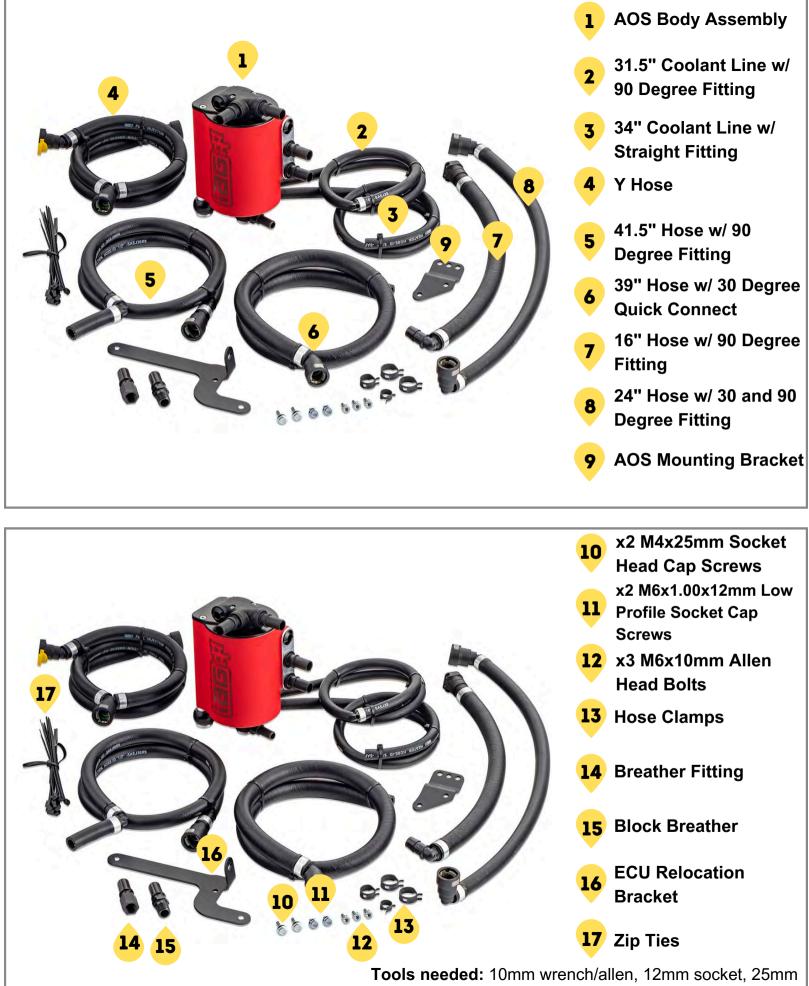
IAG-ENG-7187 IAG Air / Oil Separator (AOS) 2015-2016 Subaru WRX

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.



problems or have questions please stop and contact our support team at 410-840-3555 or email us at

support@iagperformance.com for help.



Tools needed: 10mm wrench/allen, 12mm socket, 25mm socket, 8mm nut driver, socket, razor, all purpose lube, needle nose pliers, pick tool, pipe/hose cutters, zip ties

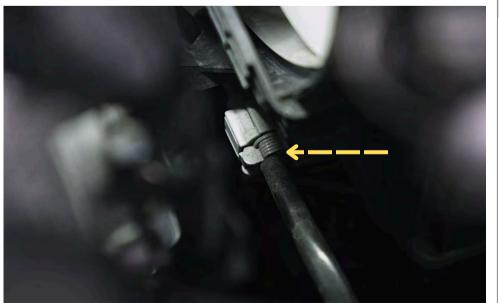


Using a 10mm wrench, remove the negative battery terminal.





Remove the air intake duct by removing the two front clips.



Step 3 Disconnect passenger side radiator fan wiring harness.





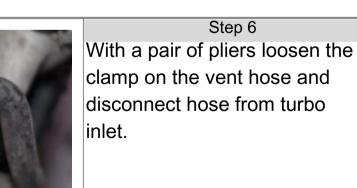
Unscrew the two bolts that secure the radiator fan.

Remove radiator fan.

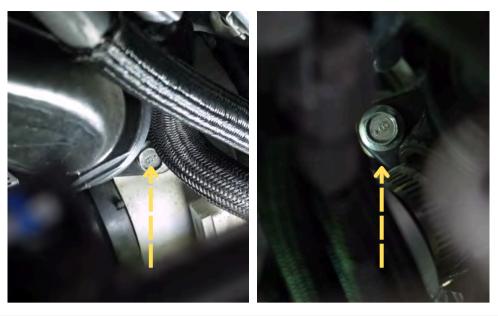
Step 5



Using a pair of needle nose pliers, disconnect the bypass valve vacuum line.



Step 7 Remove hardware securing charge pipe.



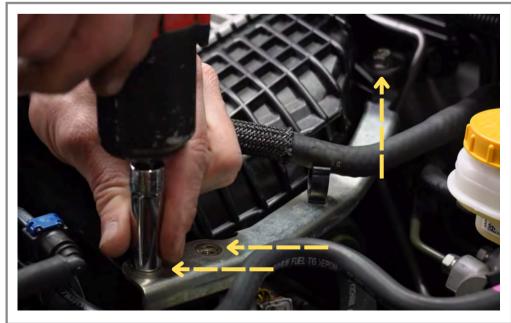
Step 8



Loosen the clamp and remove charge pipe.

Step 9 Remove the three intercooler bolts on drivers side with a 12mm socket.

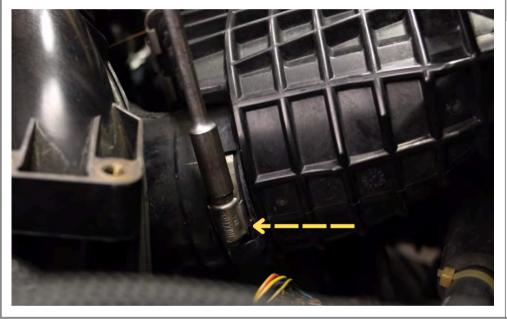
Then remove intercooler bracket.



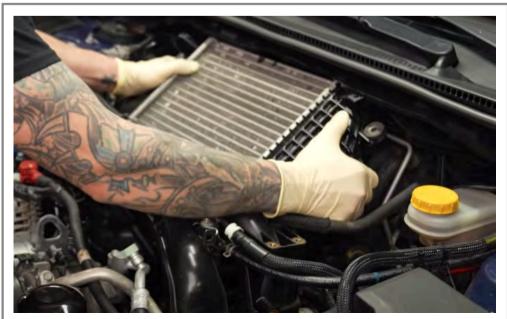


Remove the intercooler bolt on the passenger side with a 12mm socket.

Step 11



Loosen the clamp on the throttle body.



Step 12 Remove the intercooler by pulling up and away from the throttle body.



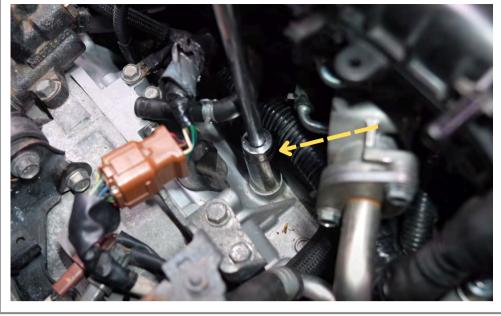


Remove the four 12mm bolts that secure the EGR pipe.





Step 15 Remove breather hose.

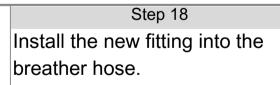


Remove the breather fitting from the block.

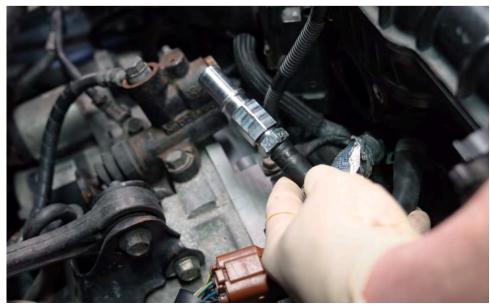


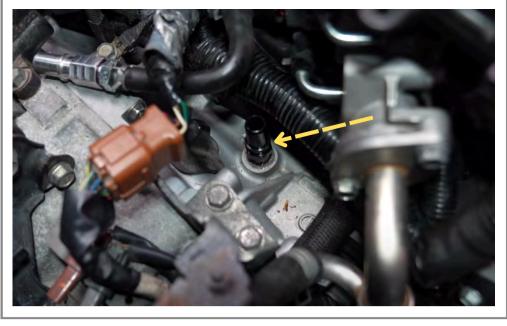
Step 17 Reinstall the factory breather fitting into the new fitting.





Re-secure the clamp on the breather hose.





Install the new block breather and tighten to OEM specs.



Step 20



Reinstall the EGR pipe back to the manifold.

Use a torque wrench and tighten to OEM specs.



Step 21 Using a pair of needle nose pliers remove the clip holding the harness in place.



Using a pair of needle nose pliers remove the clip holding the harness in place below.

Step 23



Remove the 10mm bolt securing the wiring harness to the ECU.

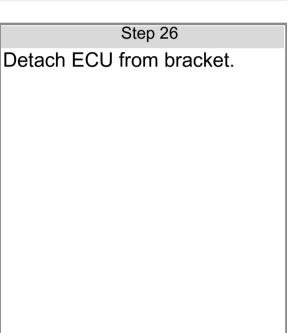


Step 24 Using pliers, remove the harness retaining clip from the bracket.



Remove the bolts holding the ECU to the bracket on the strut tower.







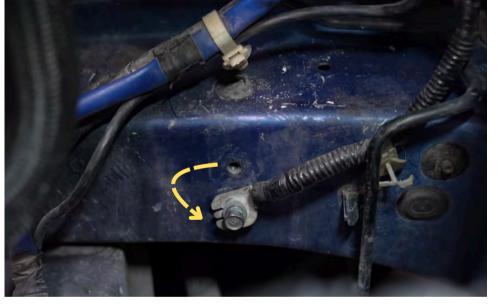
Step 27 Remove the two 10mm bolts which secure the ECU bracket to the strut tower.

Remove the bracket.

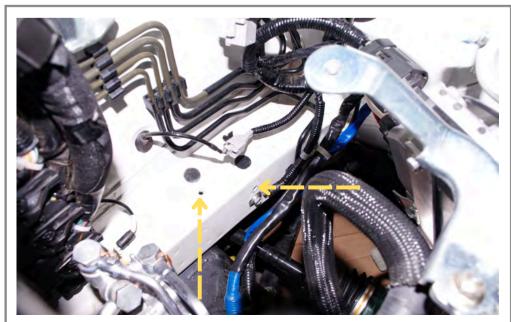


Use pliers to remove this mounting tie from the frame rail.

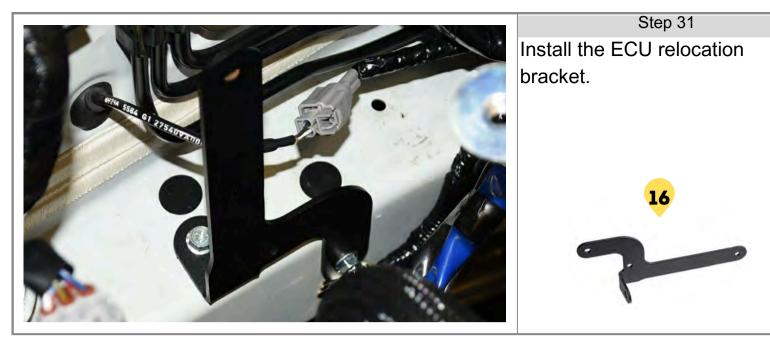


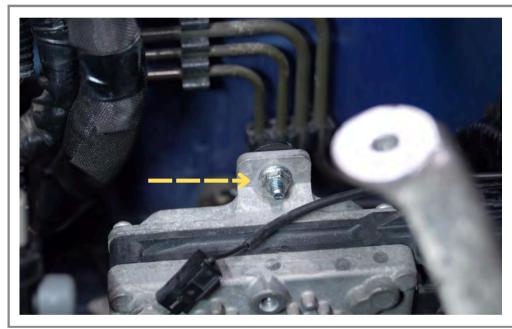


Reinstall the ground to this hole using the OEM 10mm bolt.



Step 30 Attach the ECU relocation bracket using the OEM ECU bracket 10mm hardware.



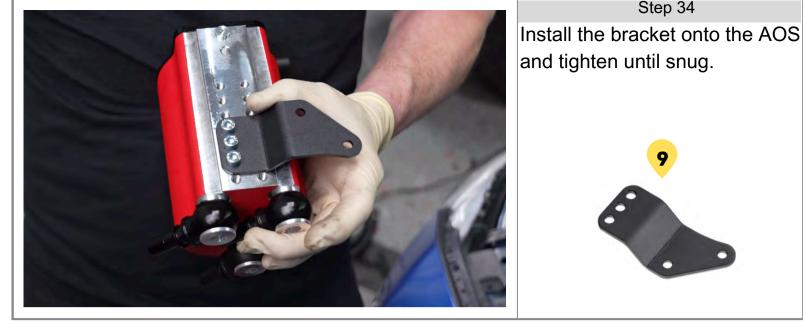


Step 32 Attach the ECU to the new bracket using the supplied bolts.

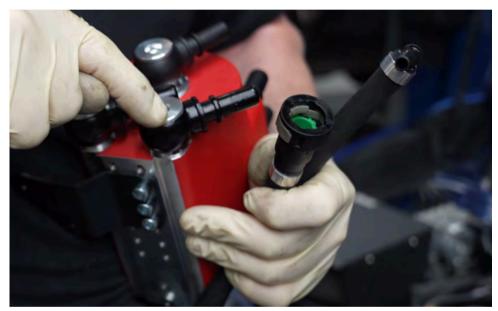


Step 33 Zip tie the harness together.

Cut the excess zip tie.





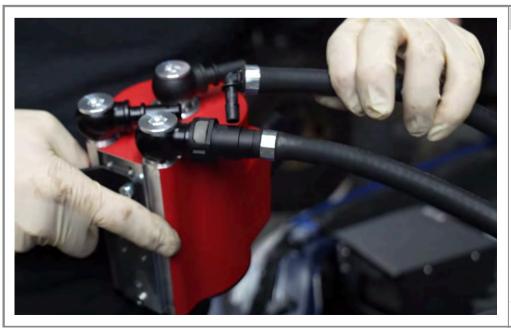


Step 35 Apply a small amount of lube to the coolant hose with the 90 degree fitting.

Install on AOS.



Step 35 pt.2



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



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

Install on AOS.



Step 36 pt.2



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

Step 37

Using a 10mm wrench Install the AOS onto the bracket located on the passenger side strut tower.



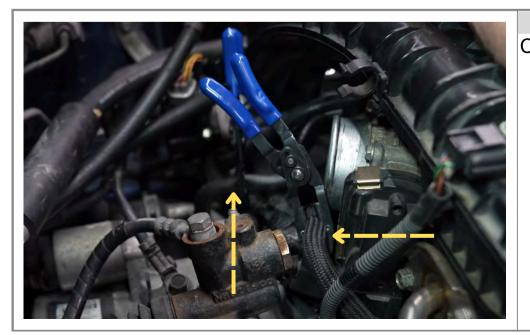


Route the two coolant lines behind the AC hardline.





Slide a supplied clamp onto smaller coolant line.

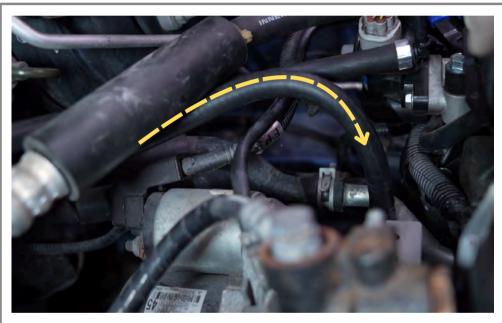


Step 40 Clamp both OEM coolant lines.



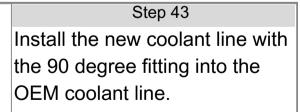
Loosen clamp and remove OEM coolant line.

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

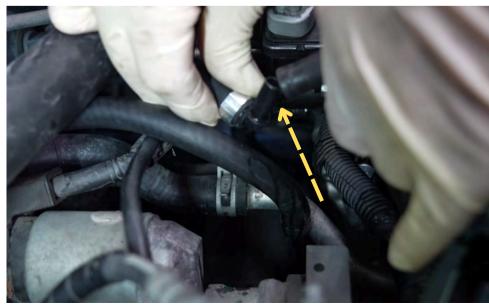


Step 42 Install new coolant line to OEM fitting.

Secure the clamp to the line.



Slide the clamp back into place and secure.





Remove both coolant line clamps from step 40.





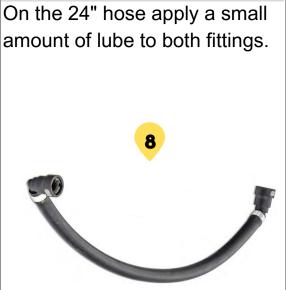
Using two zip ties secure the coolant lines to the AC hard line and brake master line.

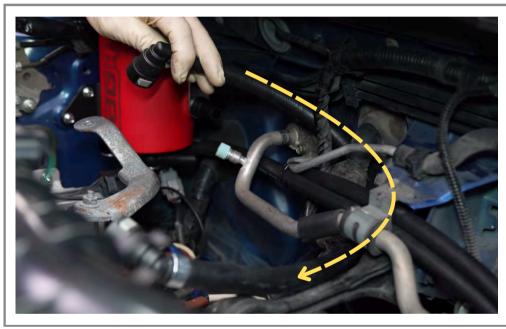
Cut excess zip tie.



Step 45 pt.2







Step 47 Route breather hose behind and under the AC hard line.

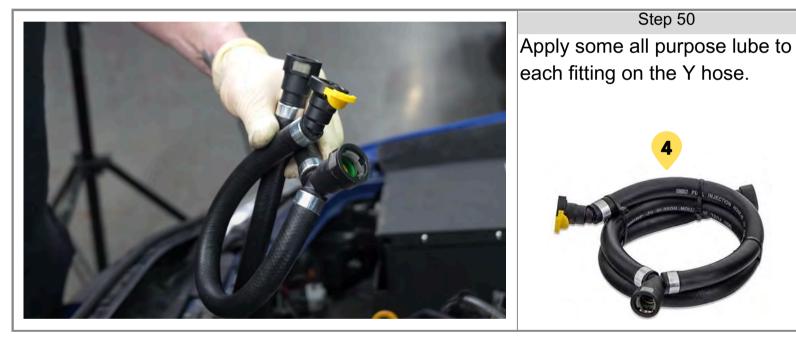


Step 48 Connect 90 degree fitting to top of AOS can.



Connect the 30 degree fitting to the new breather fitting.

Reference step 18.





Step 51 Install the Y hose fitting onto block breather and push down.



Route the Y hose under harness and breather fitting.





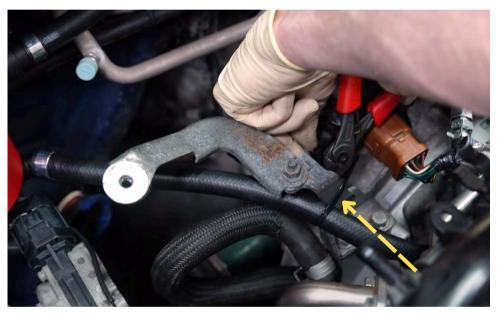
Connect the other end of the breather hose to the bottom port on the AOS.



Step 54 Connect the drain hose to the bottom of the AOS can and press tab down to secure.

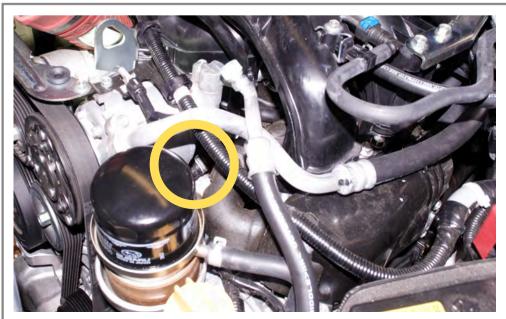


Step 55 Attach zip tie to hoses and tighten. Cut off excess zip tie.



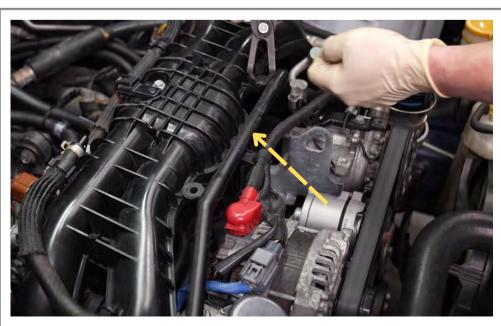
Step 56 Attach zip tie to drain line and bracket.

Cut excess zip tie.



Step 57 With a pair of needle nose pliers loosen the clamp and disconnect the PCV hard tube.

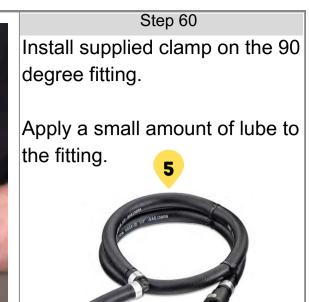
<image/>	Step 58 Remove the PCV hose that is attached to the turbo inlet.
<image/>	Step 58 pt.2

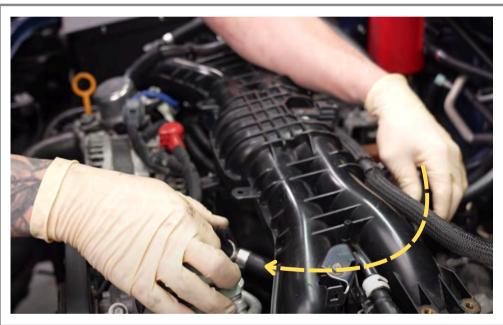


Step 59 Remove the two clips holding the PCV tube.

Remove the PCV hard tube.







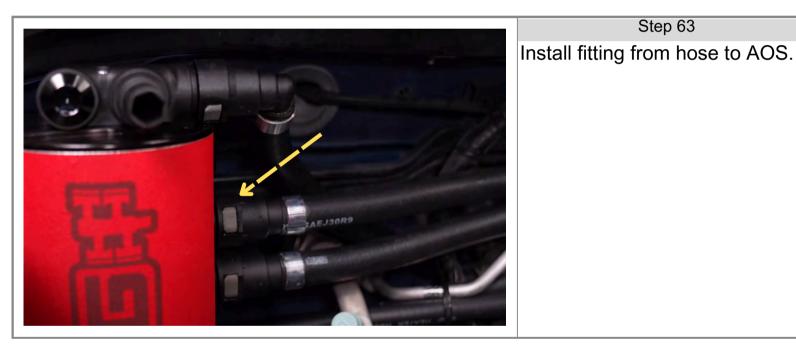
Step 61 Route the 90 degree fitting under the intake manifold.

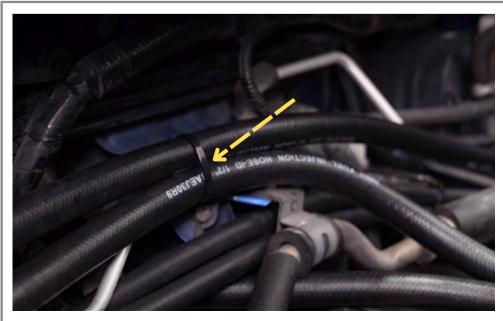


Step 62 Install the 90 degree fitting to the turbo inlet. Secure the clamp.

Reference step 57.

Step 62 pt.2



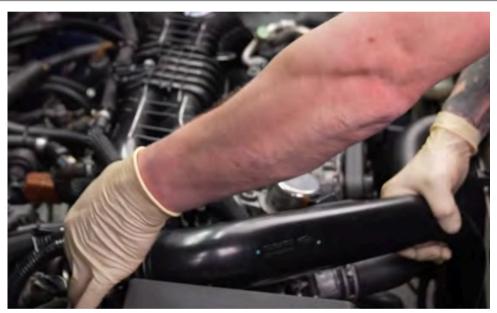


Step 64 Zip tie AOS lines together.

Cut excess zip tie.



Step 65 Zip tie line to brake master line. Cut excess zip tie.



Step 66 Reinstall the charge pipe and tighten the top clamp.

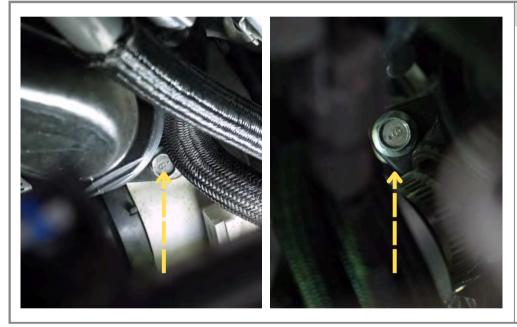
Do not install the bottom bolts for the charge pipe yet.



Step 67 Reconnect the vacuum line for the bypass valve.

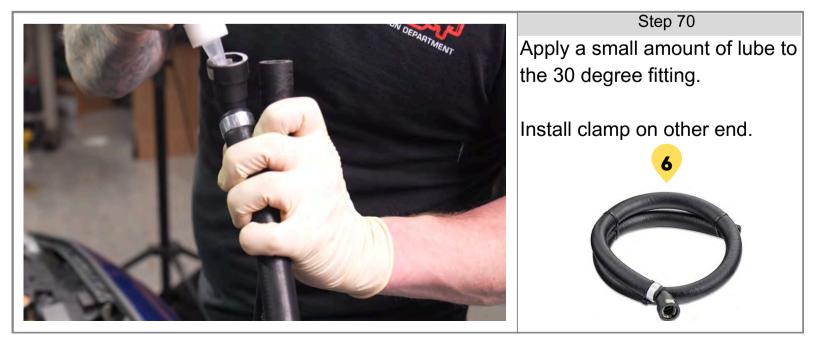
Reference step 5.

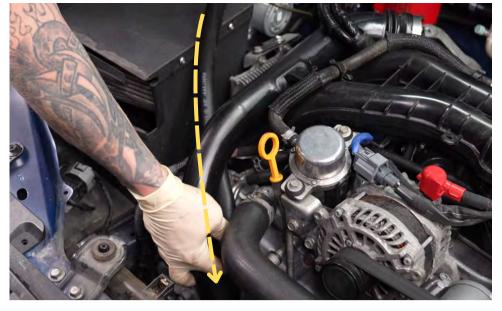
Use a socket to tighten the worm clamp on the bottom of charge pipe.



Step 69

Install the bottom bolts of the charge pipe.





Route the new breather hose under the charge pipe.





Route 30 degree fitting under harness.



Step 73 Connect fitting to top of AOS can.



Use a pair of pliers to slide clamp onto hose.



Step 75 Connect breather hose to the turbo inlet.

Secure with clamp.

Reference step 6.



Step 76 Secure hose with a zip tie.

Cut excess zip tie.



Reinstall the radiator fan and tighten the hardware.



Step 78 Reconnect the radiator fan harness.



Step 79 Reinstall the top mount intercooler back on the engine.



Reinstall the brackets and hardware.

Hand tighten at first and then tighten until snug.

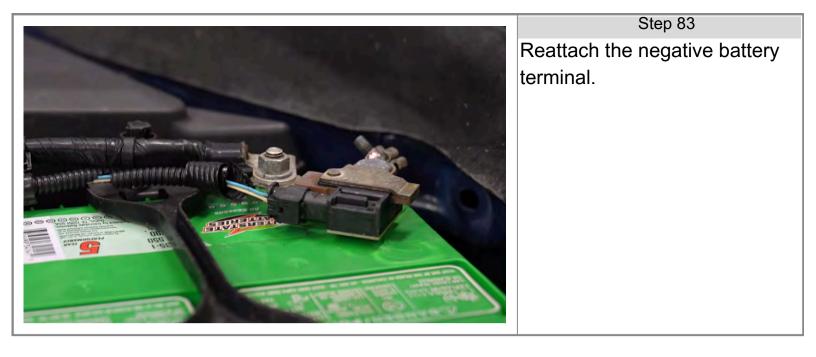
Step 81



Reinstall the duct for the air intake using the plastic clips.



Step 82 Using a nut driver, tighten the throttle body clamp.







Step 84

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