

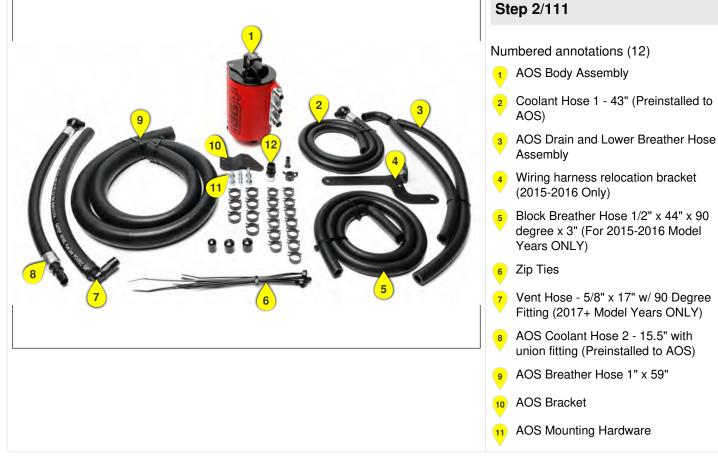
Step 1/111

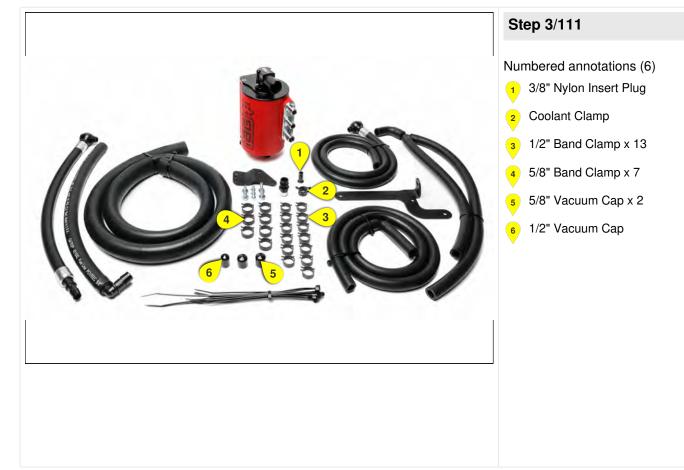
IAG-ENG-7282 Comp Series Air / Oil Separator (AOS) For 2017-20 WRX

Part# IAG-ENG-7282

Tools Required: Ratchet, extensions, needle nose pliers, hose cutter, snips/scissors, flat head screwdriver, hose clamping pliers
Sockets: 10mm, 12mm, 1⁄4" allen, 5mm allen
Wrenches: 7/6", 10mm, 12mm, 3mm allen, 5mm allen
Other: Electrical Tape

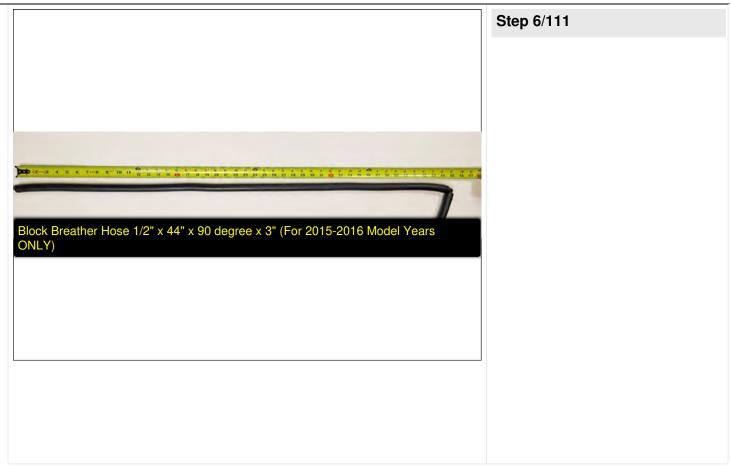
Congratulations on the purchase of your Air/Oil Separator (AOS) and thank you for choosing IAG Performance. This installation manual is intended to guide you through the modification of the factory PCV system and the installation of the IAG AOS. If you already have an aftermarket catch can or AOS installed,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





	Step 4/111
200 2 - 3 4 5 5 7 - 8 5 70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Coolant Hose 1 - 43"	









	Step 9/111
AOS Breather Hose 1" x 59"	



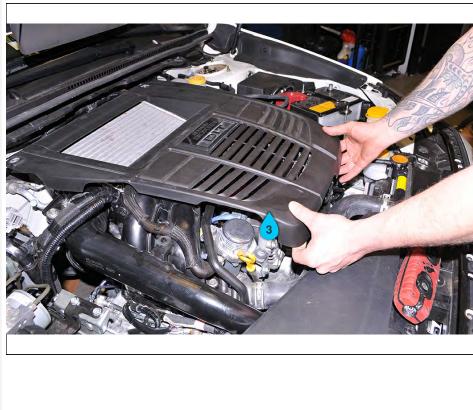


Step 11/111

Numbered annotations (1)

Disconnect the negative battery cable.

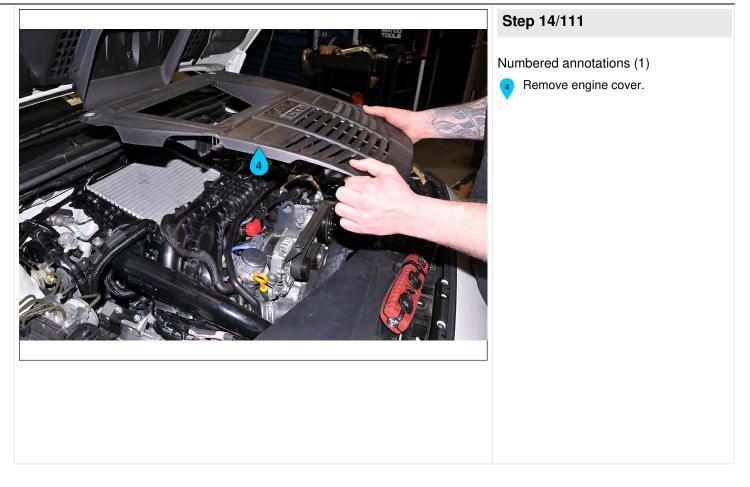




Step 13/111

Numbered annotations (1)

Pull up on the front of the cover to unclip it.

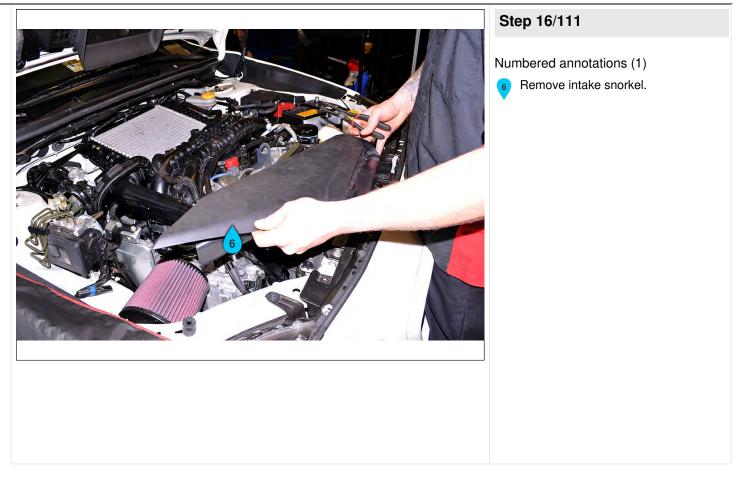


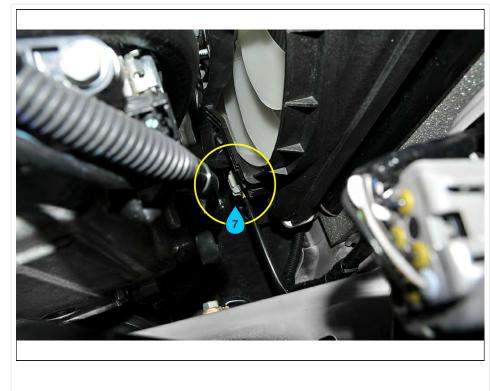


Step 15/111

Numbered annotations (1)

Remove hardware securing intake snorkel.

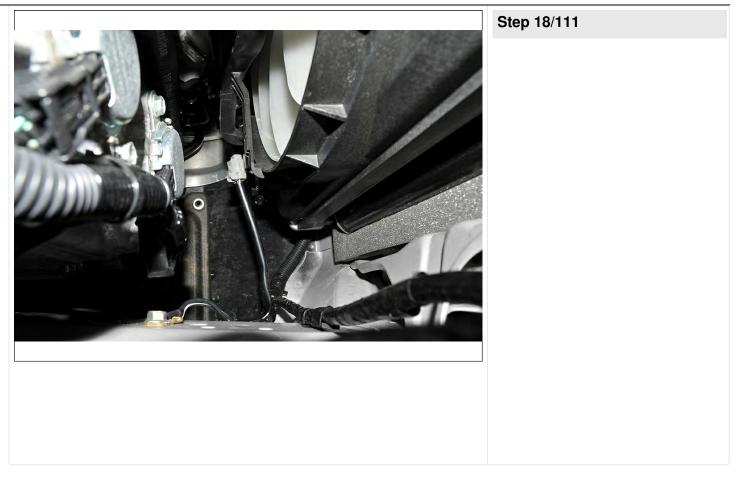




Step 17/111

Numbered annotations (1)

Disconnect passenger side radiator fan wiring harness.

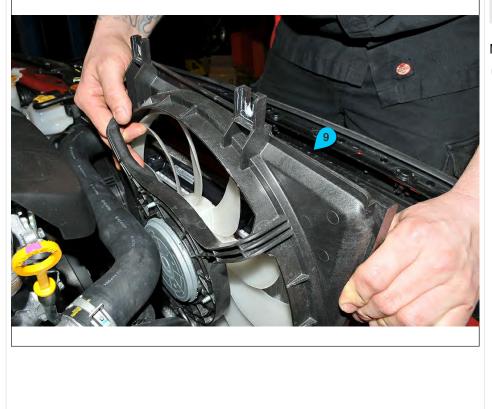




Step 19/111

Numbered annotations (1)

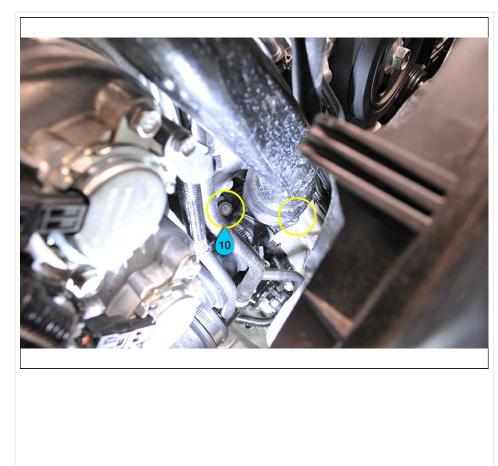
Remove hardware securing passenger side radiator fan.



Step 20/111

Numbered annotations (1)

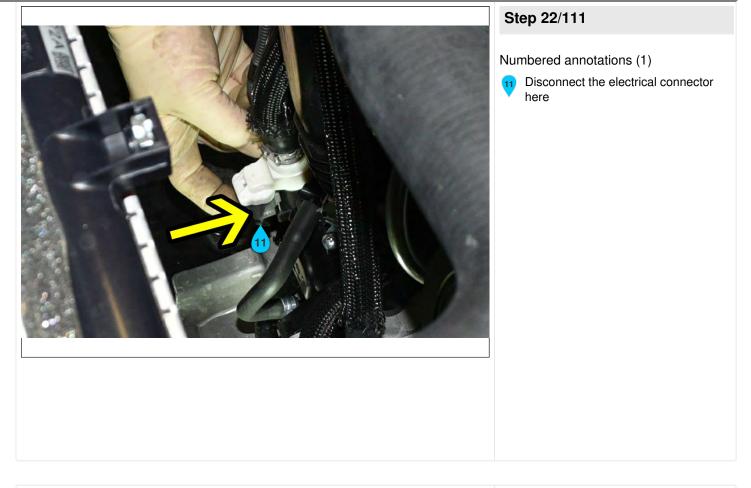
Remove passenger side radiator fan, being careful not to damage the radiator fins.



Step 21/111

Numbered annotations (1)

Provide the securing charge pipe.

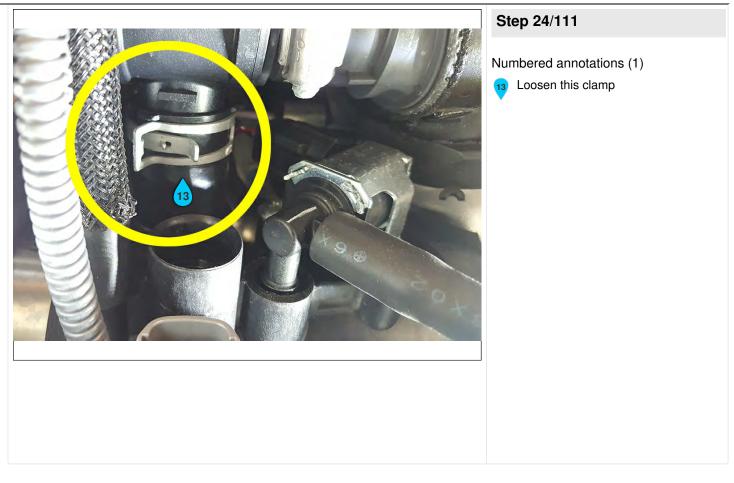




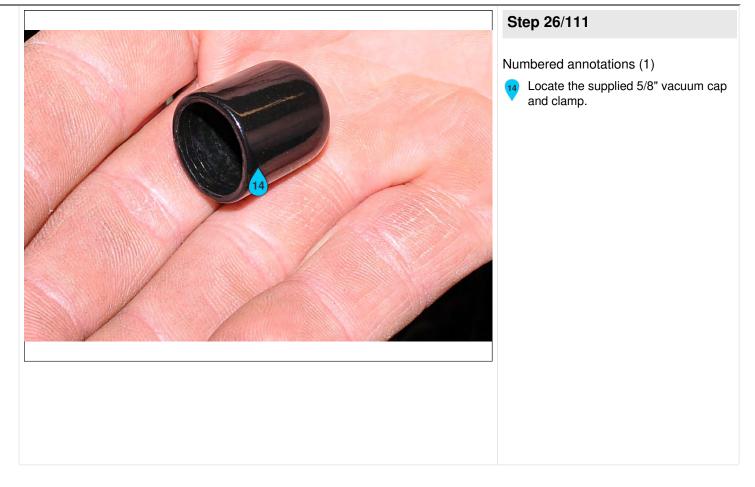
Step 23/111

Numbered annotations (1)

¹² Using pliers, pry off the hose clamp that holds the white crankcase sensor to the turbo inlet pipe.





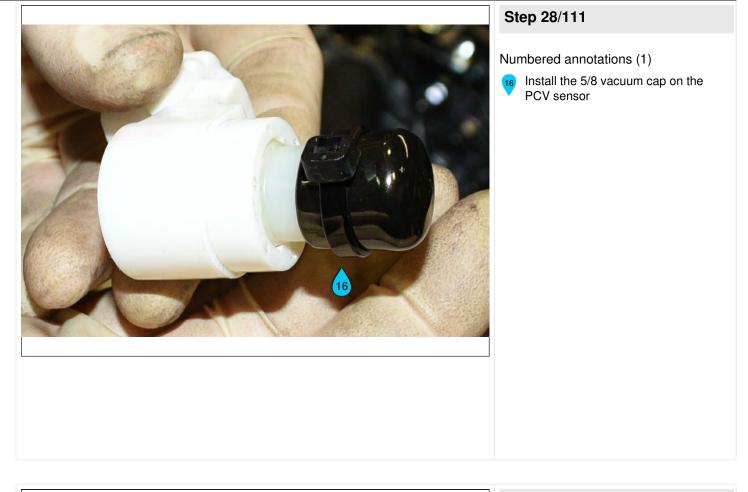


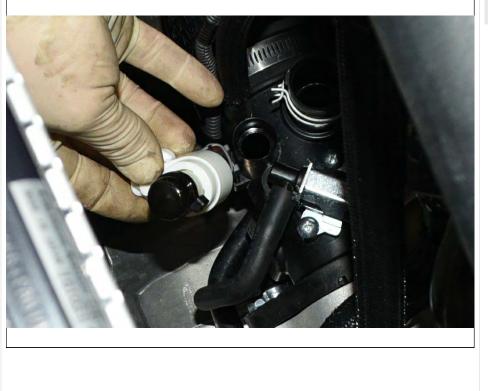


Step 27/111

Numbered annotations (1)

15 Remove the sensor from the hose.





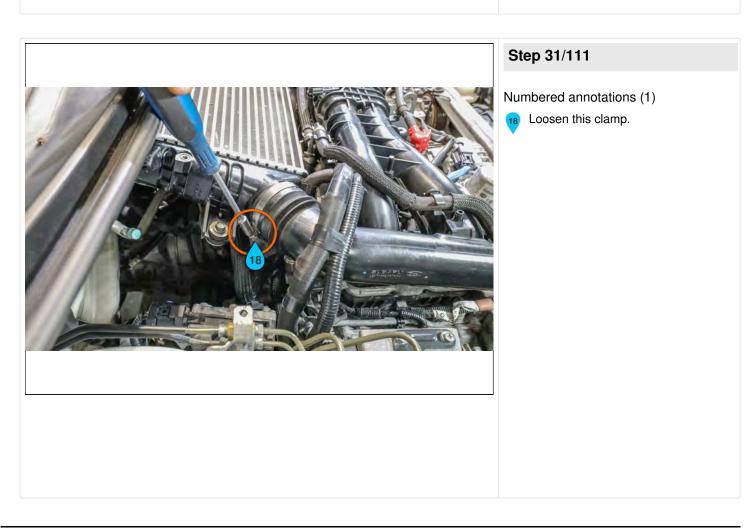
Step 29/111

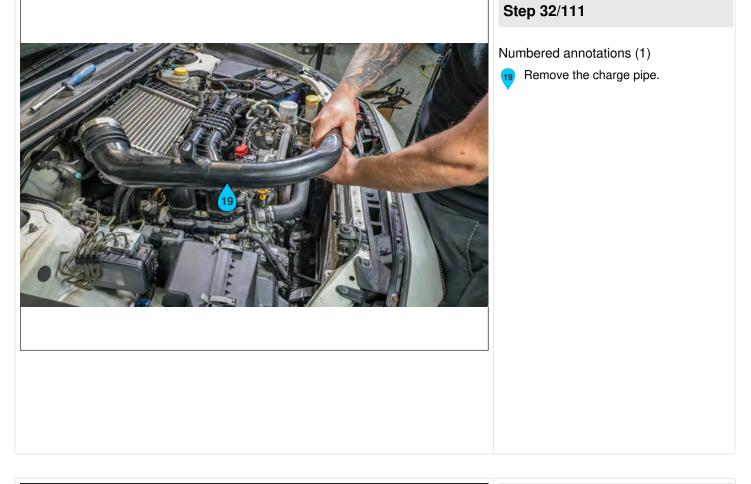


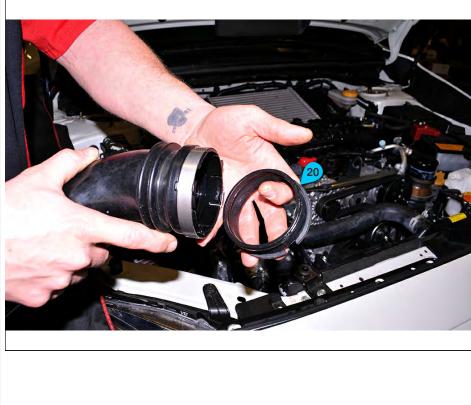
Step 30/111

Numbered annotations (1)

Reinstall the white PCV sensor, ensuring that it is fully seated and clicks into the grey connector.



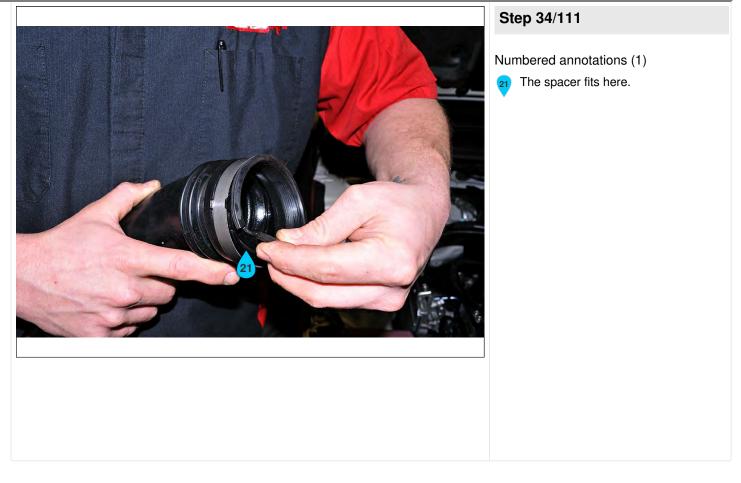


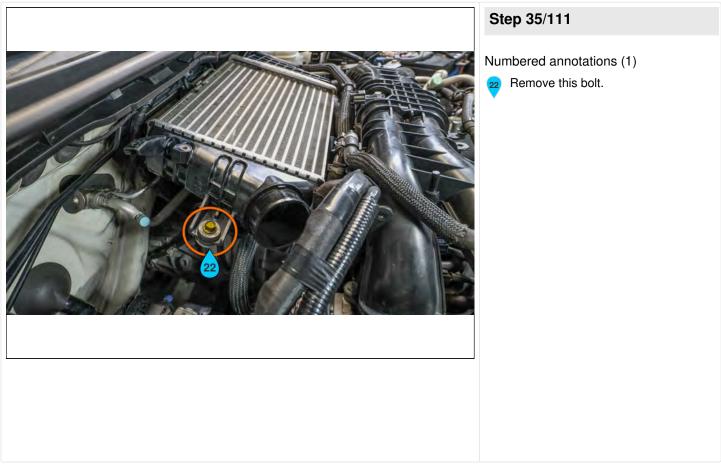


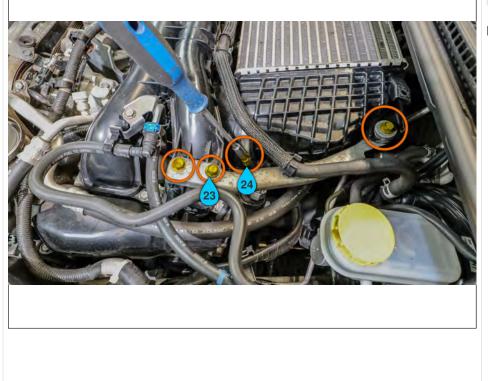
Step 33/111

Numbered annotations (1)

Ensure this part stays in the charge pipe.





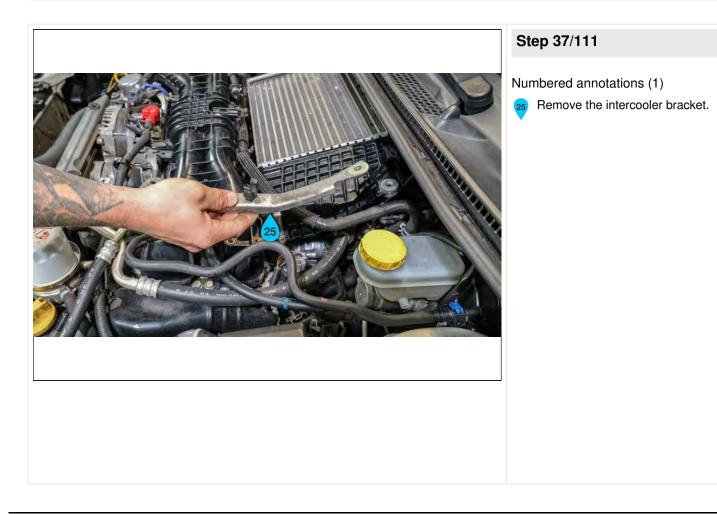


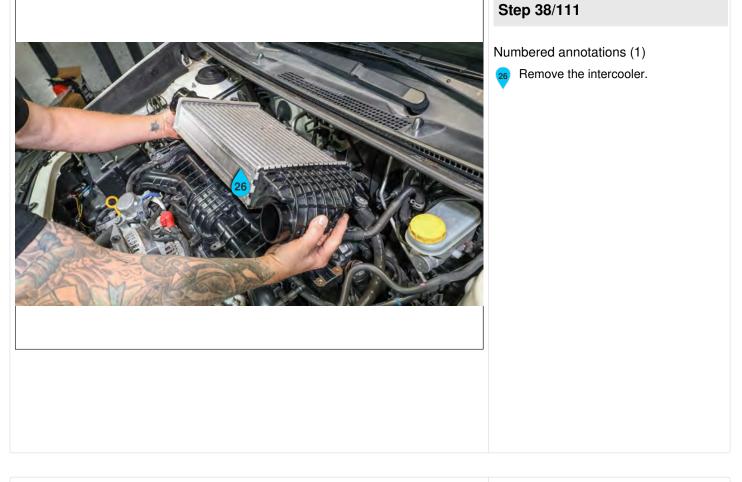
Step 36/111

Numbered annotations (2)

Remove the 3 bolts holding the intercooler and bracket.





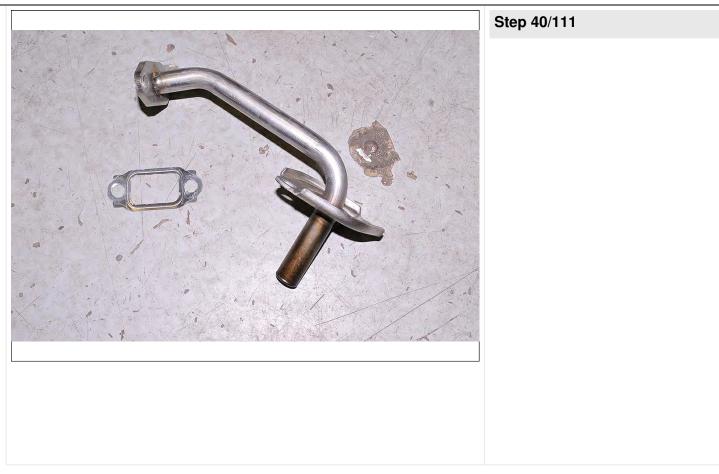




Step 39/111

Numbered annotations (1)

Remove the hardware securing this pipe behind the intake manifold.

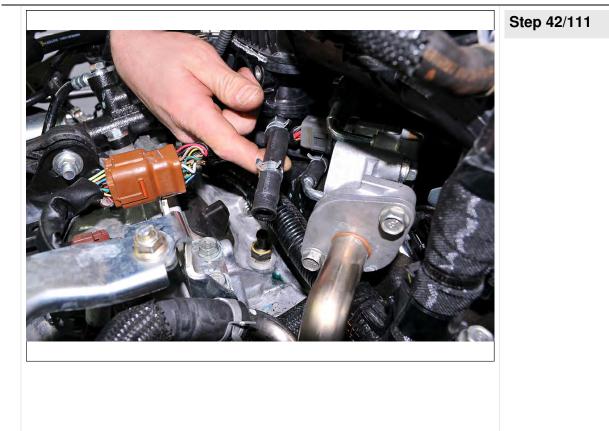


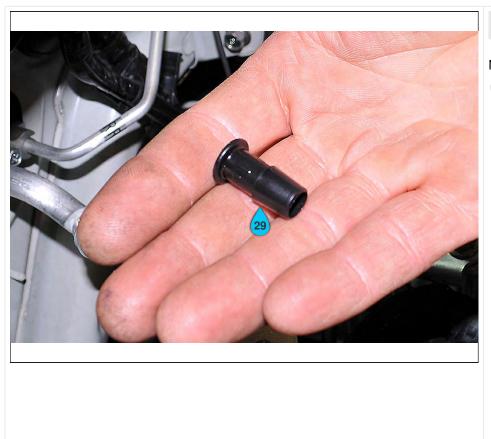


Step 41/111

Numbered annotations (1)

Loosen this clamp and disconnect this hose.





Step 43/111

Numbered annotations (1)

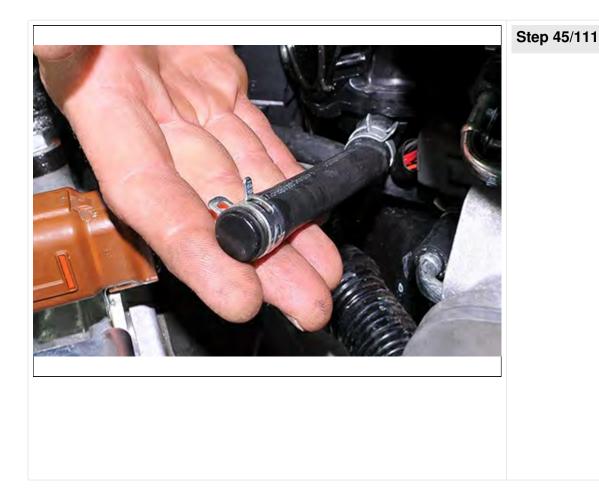
29 Locate the supplied vacuum cap.



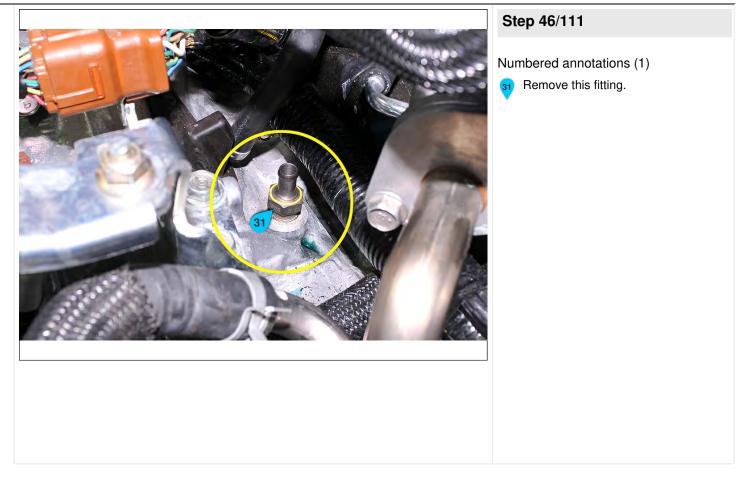
Step 44/111

Numbered annotations (1)

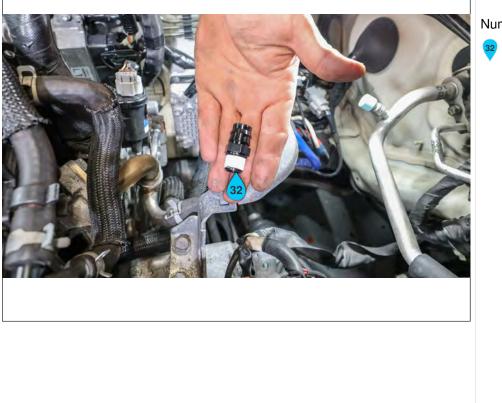
Install the supplied vacuum cap in this hose, secured with the OEM clamp.



IAG Performance



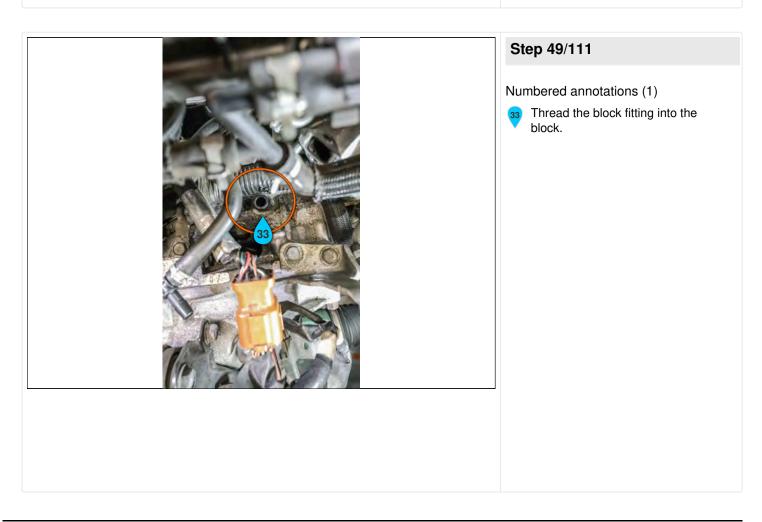


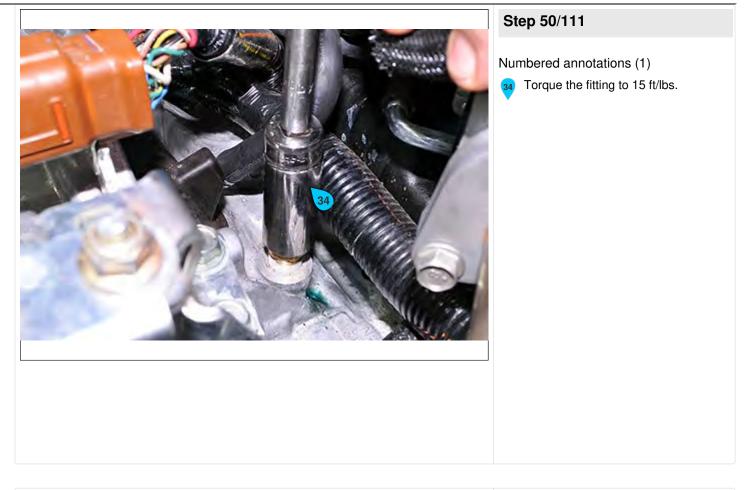


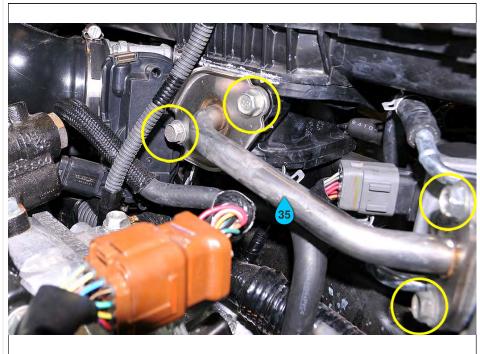
Step 48/111

Numbered annotations (1)

Locate the supplied block breather fitting.



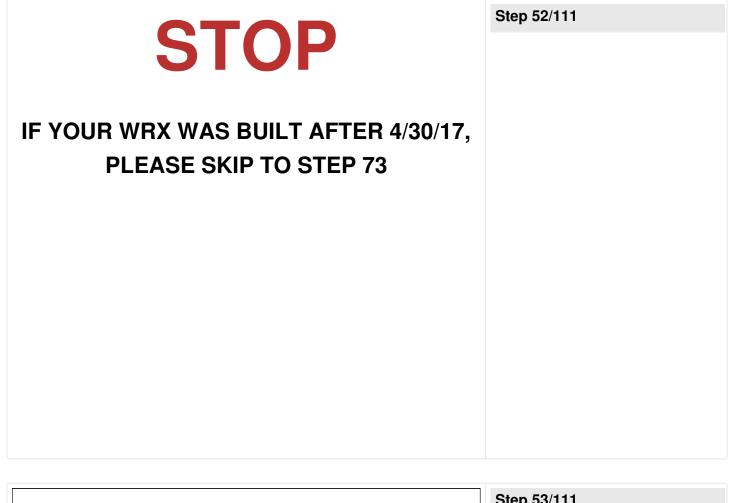


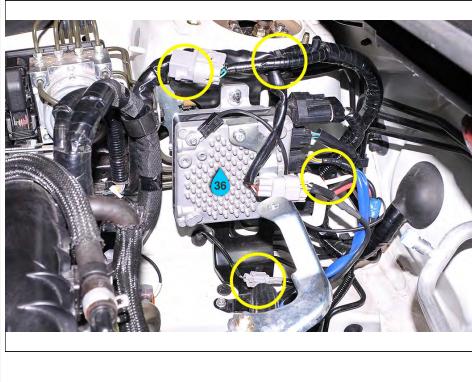


Step 51/111

Numbered annotations (1)

Reinstall the EGR pipe, reusing the OEM gaskets and hardware.

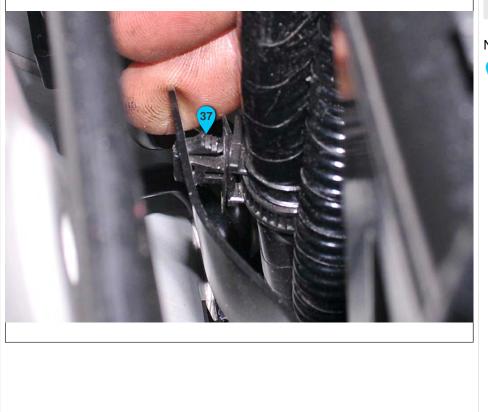




Step 53/111

Numbered annotations (1)

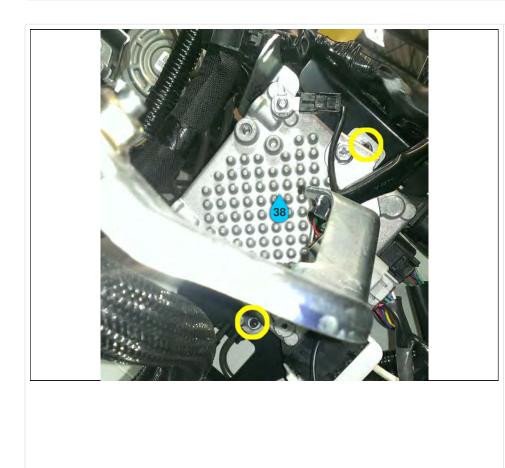
Remove the 4 wiring harness retaining clips from the ECU mounting bracket.



Step 54/111

Numbered annotations (1)

Use pliers to squeeze these zip ties then push them through the hole to remove.

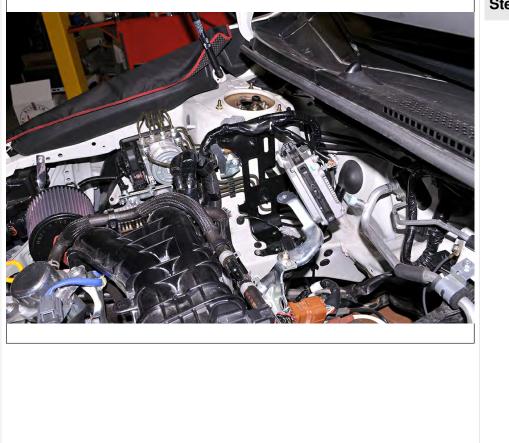


Step 55/111

Numbered annotations (1)

 Remove the two 10mm nuts which hold the ECU to the bracket. Pull the ecu free from the bracket and place it aside in the engine bay.

Step 56/111

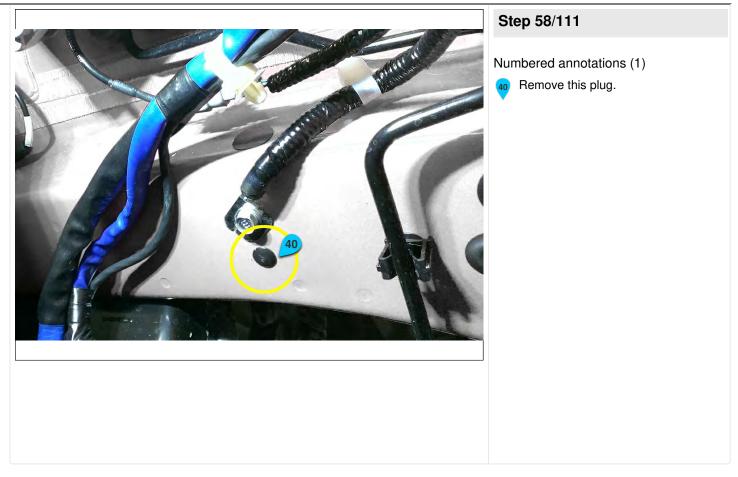


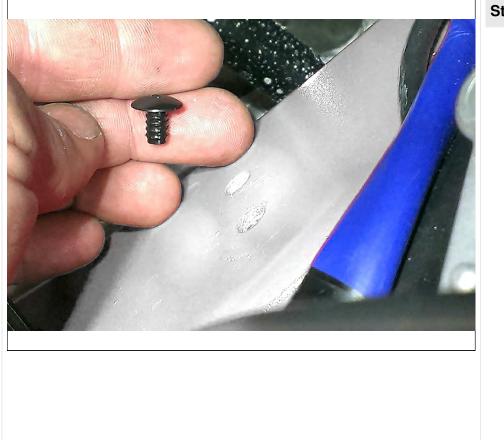


Step 57/111

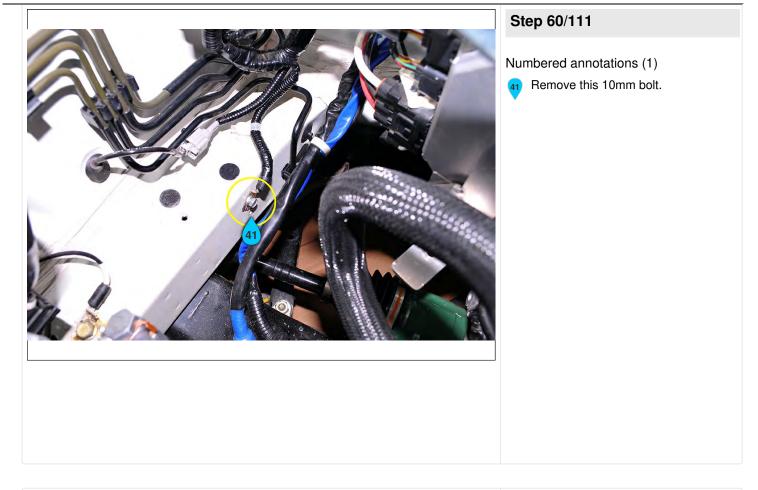
Numbered annotations (1)

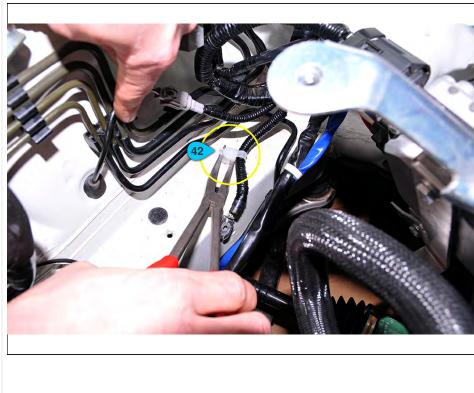
 Remove the two 10mm bolts which secure the ECU bracket to the strut tower. Remove the bracket.





Step 59/111

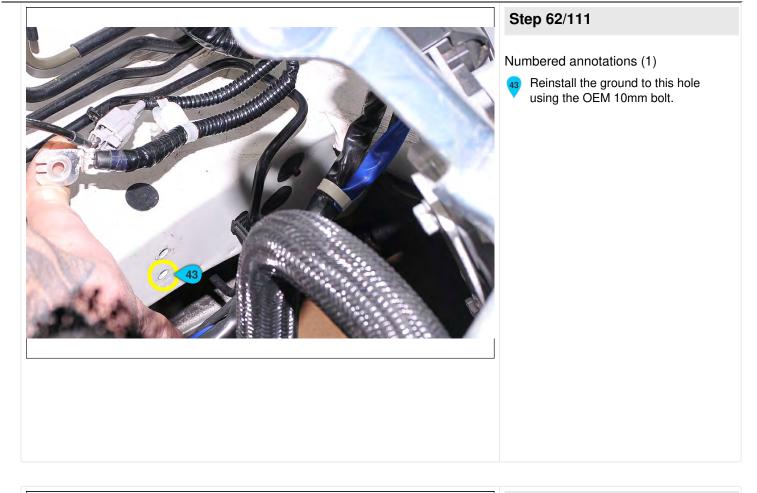


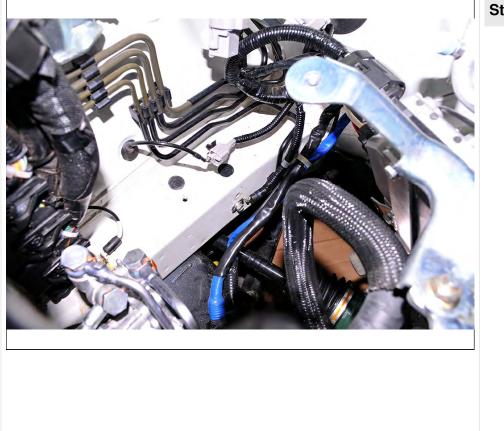


Step 61/111

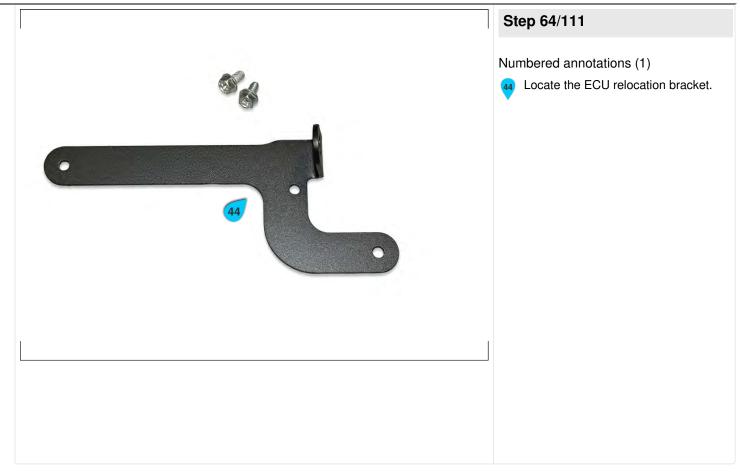
Numbered annotations (1)

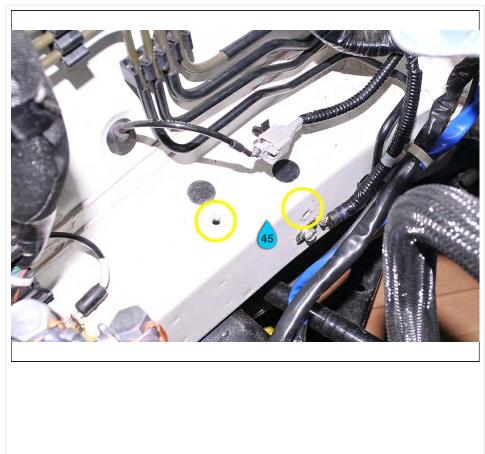
Use pliers to remove this mounting tie from the frame rail.





Step 63/111

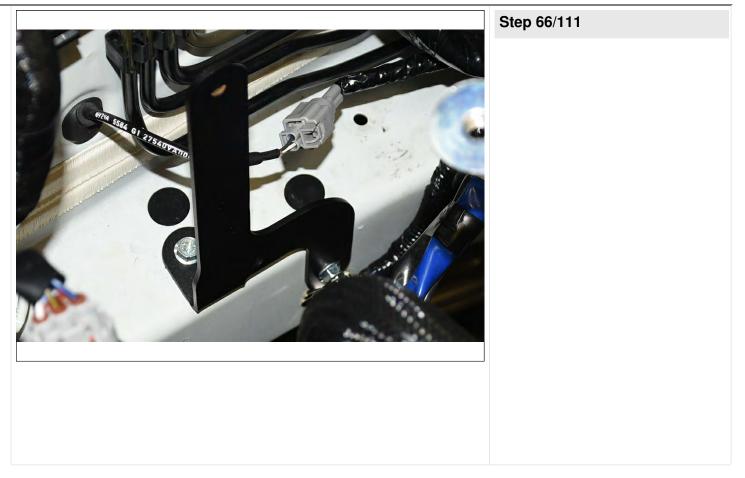


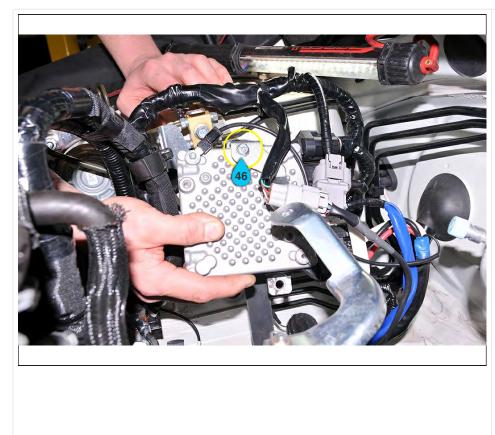


Step 65/111

Numbered annotations (1)

 Attach the ECU relocation bracket here using the OEM ecu bracket 10mm hardware.

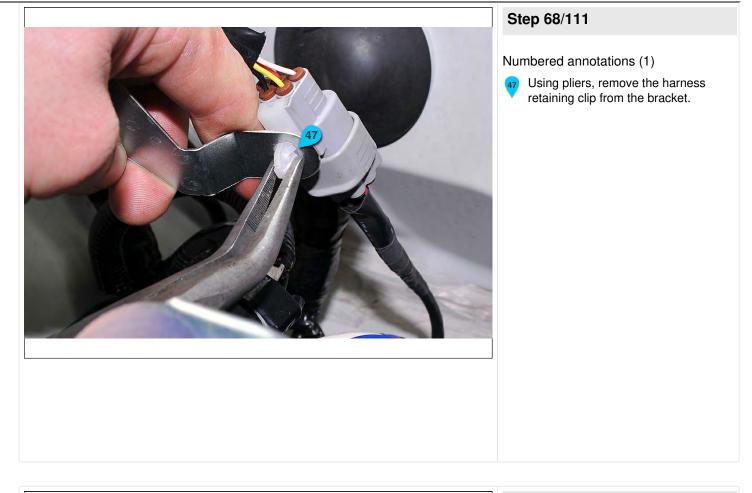




Step 67/111

Numbered annotations (1)

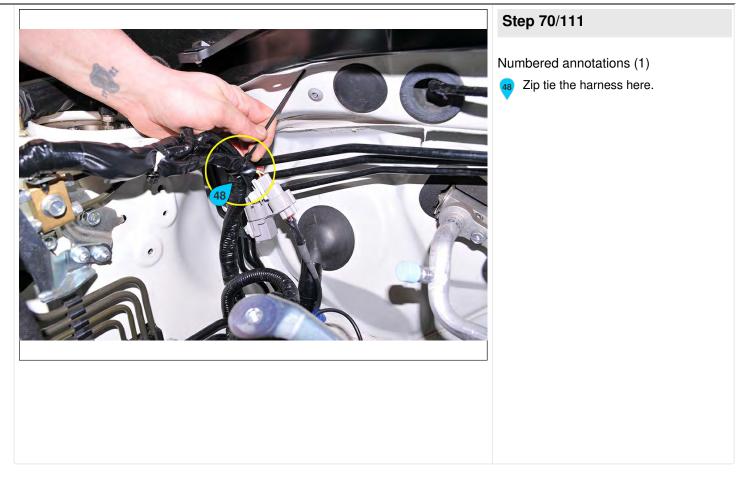
Remove the 10mm bolt securing the wiring harness to the ecu,





Step 69/111







Step 71/111

Numbered annotations (1)

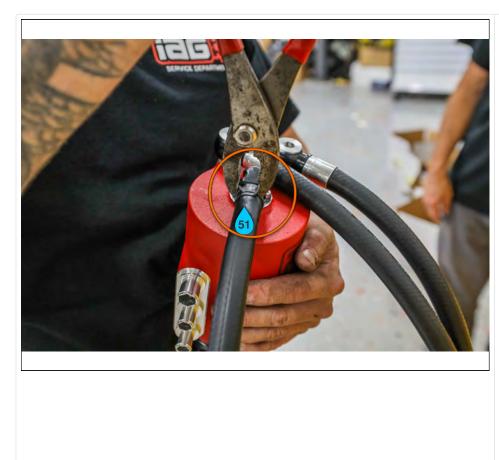
 Locate the supplied 6mmx15mm bolts, 6mm flat washers, and OEM ecu bracket nuts.



Step 72/111

Numbered annotations (1)

Attach the ECU to the bracket using the supplied 6mmx15mm bolts, 6mm flat washers, and the OEM nuts the secured the ecu to the OEM ECU bracket. (Make sure the bolt heads are on the bracket side.)



Step 73/111

Numbered annotations (1)

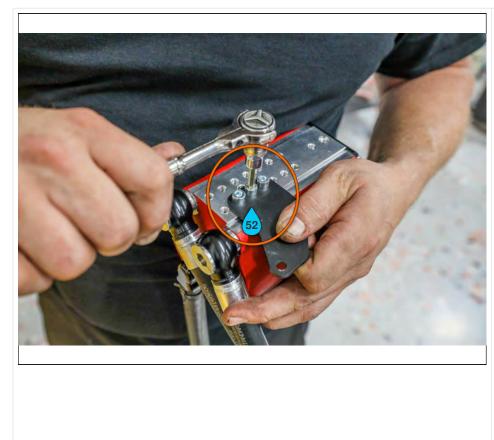
Attach the drain hose using the supplied clamp.



Step 74/111

Numbered annotations (1)

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

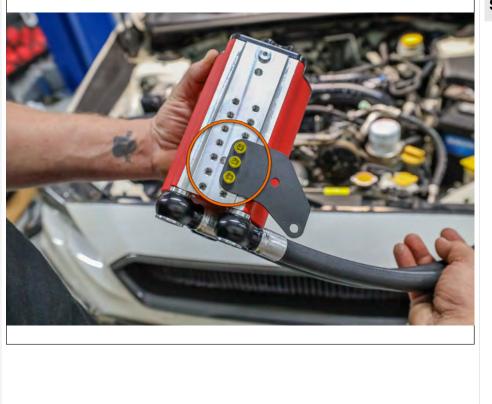


Step 75/111

Numbered annotations (1)

Locate the AOS bracket and supplied hardware and install the bracket as shown. Torque the bolts to 7 ft/lbs.

Step 76/111





Step 77/111

Numbered annotations (1)

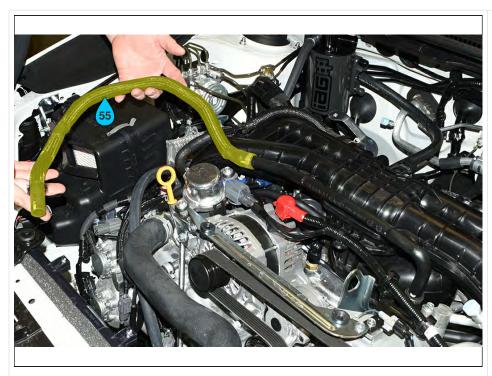
Install the supplied 5/8" vacuum cap on this port and secure with the supplied clamp.



Step 78/111

Numbered annotations (3)

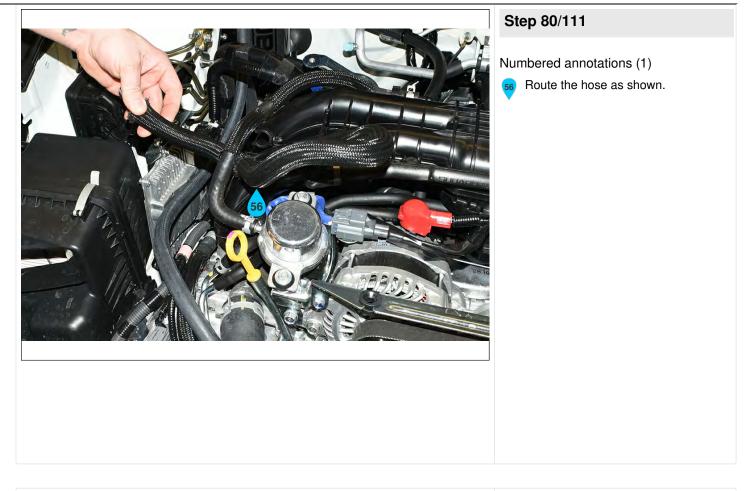
- Mount the AOS here using the supplied bolts.
- Cap installed on this port for 2017+ vehicles
- 2 Cap installed on this port for 2015-2016 vehicles.



Step 79/111

Numbered annotations (1)

Locate the hose that went to the turbo inlet PCV connector.

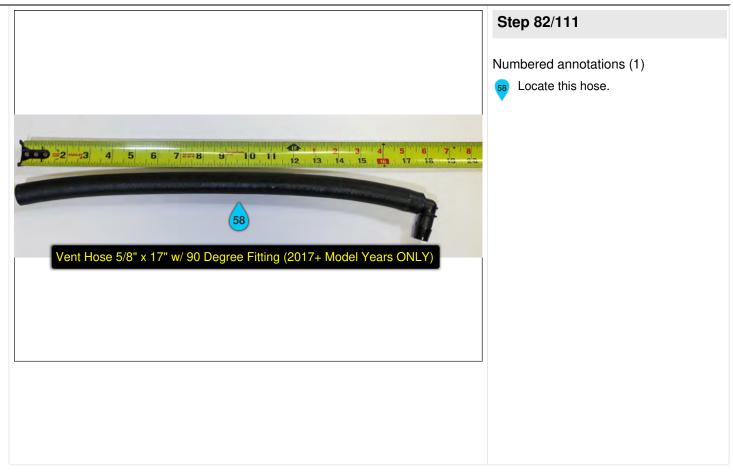


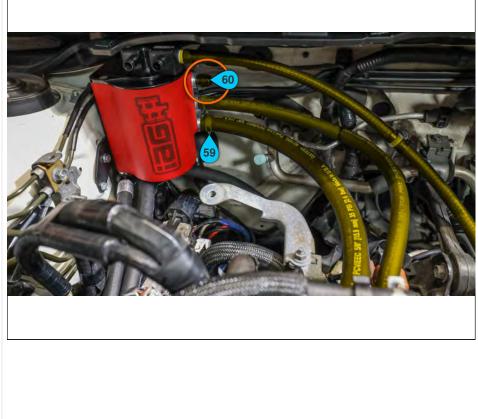


Step 81/111

Numbered annotations (1)

57 Route vent hose through here.

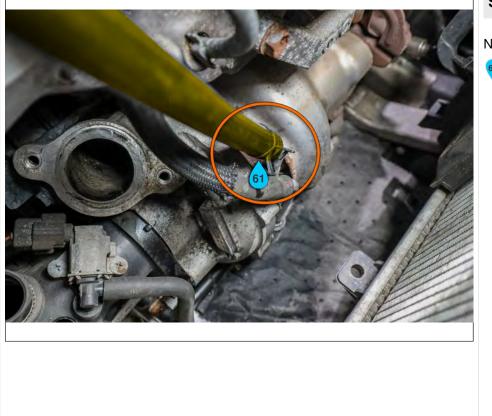




Step 83/111

Numbered annotations (2)

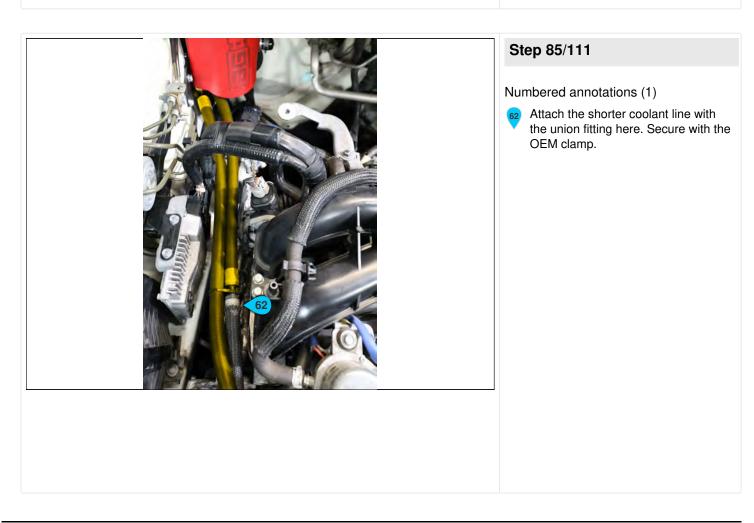
- Insert the 90 degree fitting into the hose in step 84, securing with the supplied clamps. Connect the open end of the hose to the 5/8" port here.
- Ensure the 1/2" vacuum cap is installed here and secured with the supplied clamp on the 2017+ vehicles.

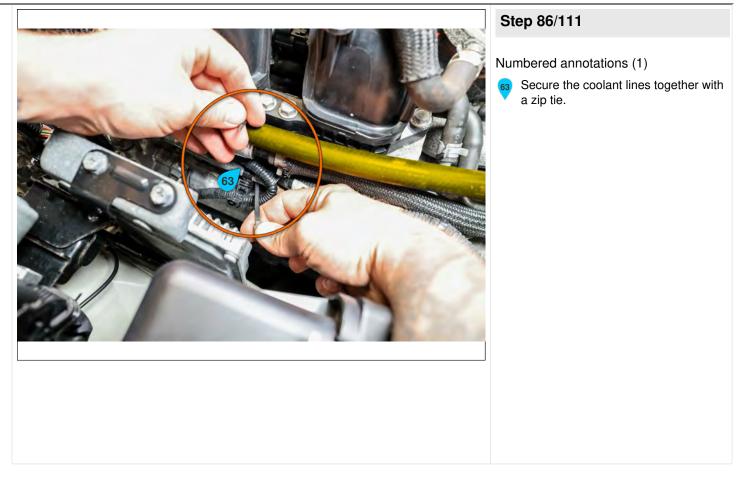


Step 84/111

Numbered annotations (1)

Attach the longer coolant hose here using the supplied clamp.







Step 87/111

Numbered annotations (1)

⁶⁴ Use additional zip ties to keep the coolant hoses routed and secure.



Step 88/111

Numbered annotations (1)

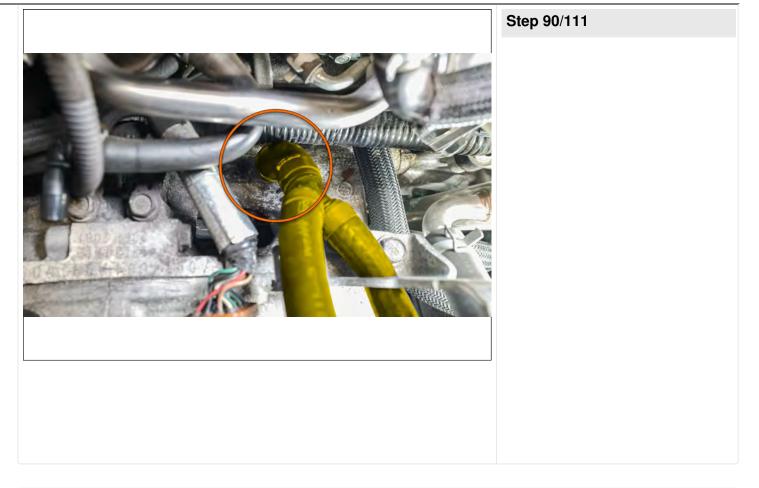
Locate the Y shaped breather hose assembly.

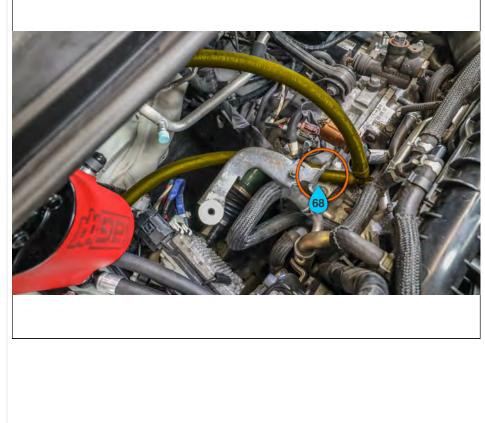


Step 89/111

Numbered annotations (2)

- Beass one hose through the bracket.
- 7 Attach 90 degree hose here using the supplied clamp.

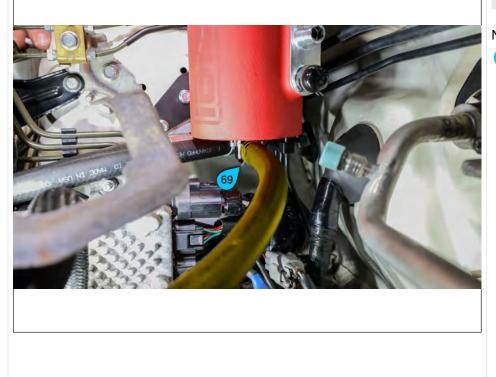




Step 91/111

Numbered annotations (1)

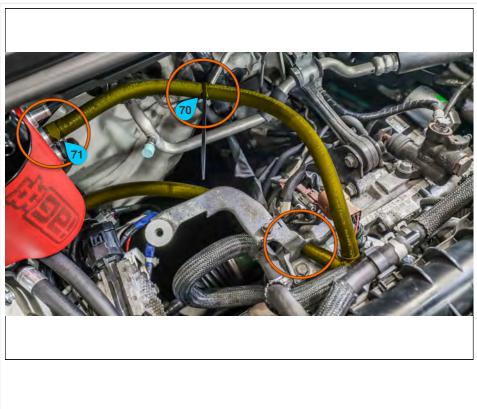
Ensure the drain hose is routed through this bracket. Measure and trim to length to attach the drain hose to the bottom of the AOS



Step 92/111

Numbered annotations (1)

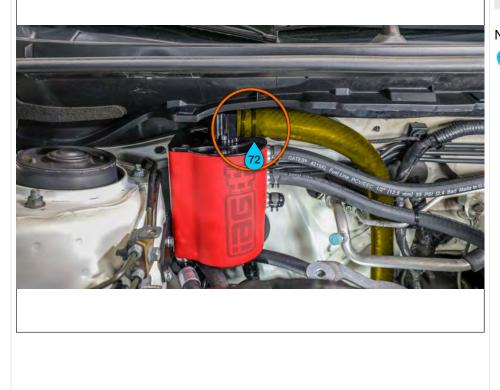
Attach the drain hose here using the supplied clamp.



Step 93/111

Numbered annotations (2)

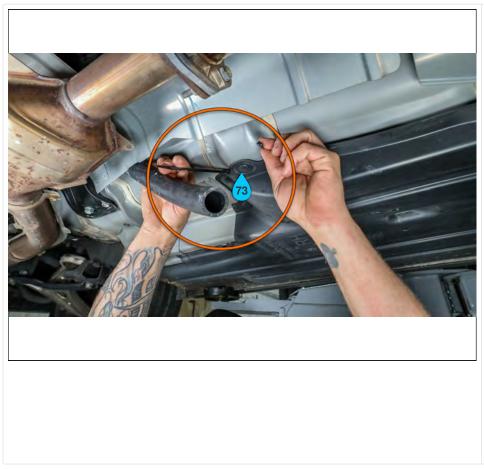
- Secure the vent hose assembly here with a zip tie.
- Attach the vent hose to the middle port on the side of the AOS using the supplied clamp.



Step 94/111

Numbered annotations (1)

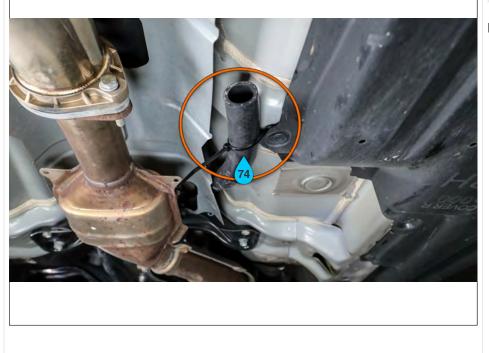
Route the 1" breather hose as shown and secure to the AOS with two zip ties.



Step 95/111

Numbered annotations (1)

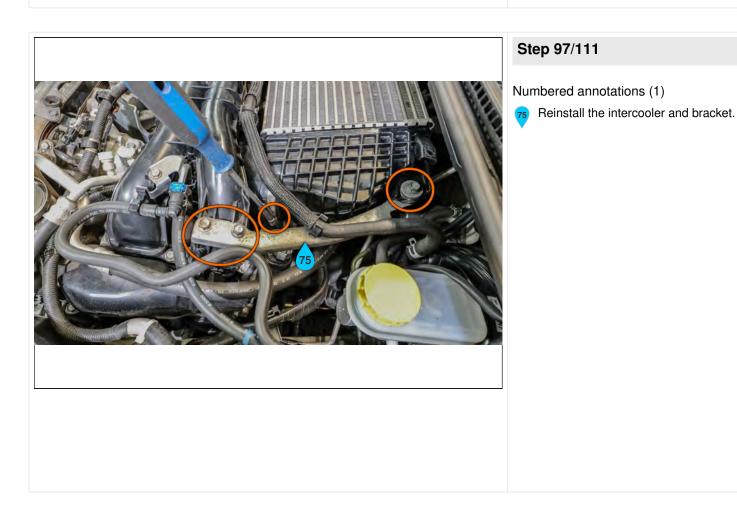
Route the breather hose under the vehicle, along the transmission tunnel. Thread a zip tie through here.

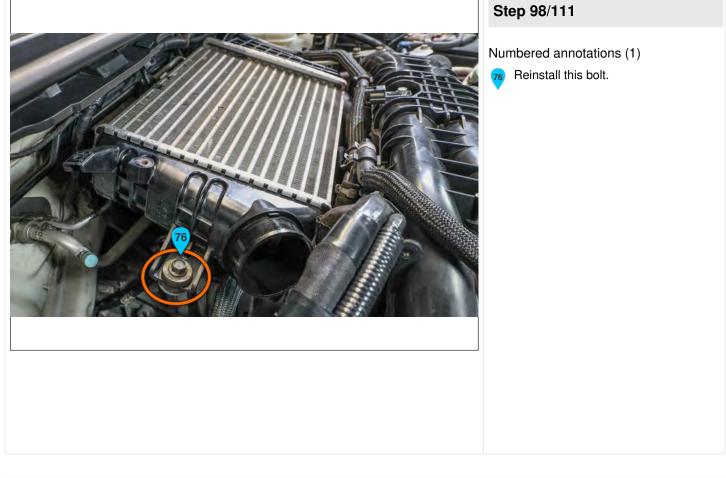


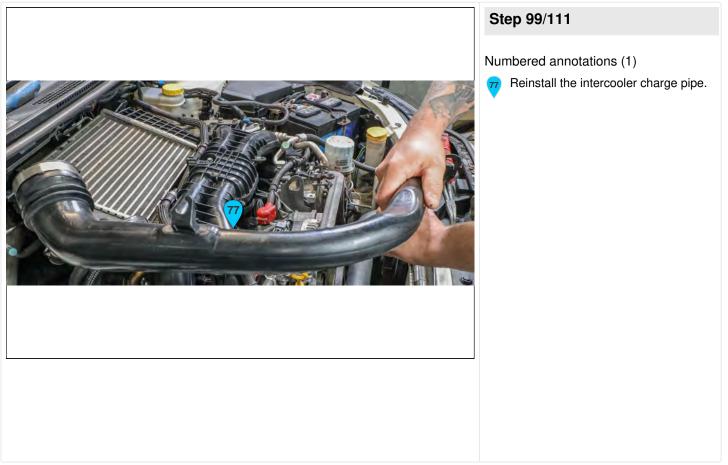
Step 96/111

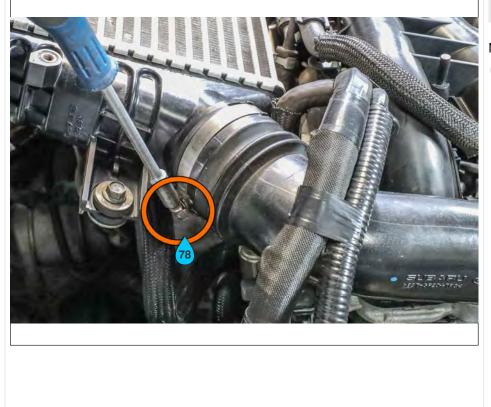
Numbered annotations (1)

Pass the end of the breather hose through the zip tie and secure to the bottom of the vehicle.





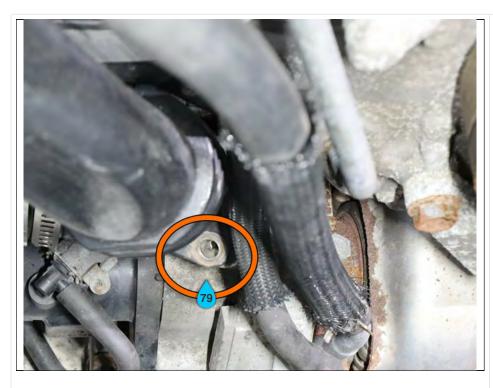




Step 100/111

Numbered annotations (1)

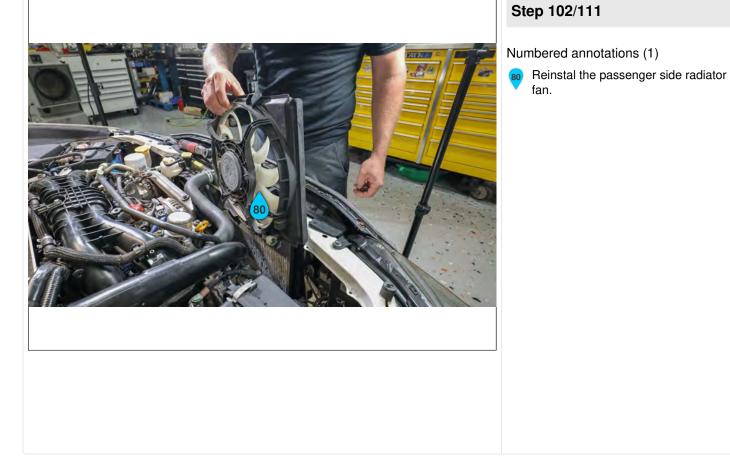
Attach the charge pipe to the intercooler and tighten this clamp.



Step 101/111

Numbered annotations (1)

Reinstall both bolts for the charge pipe to the turbocharger.

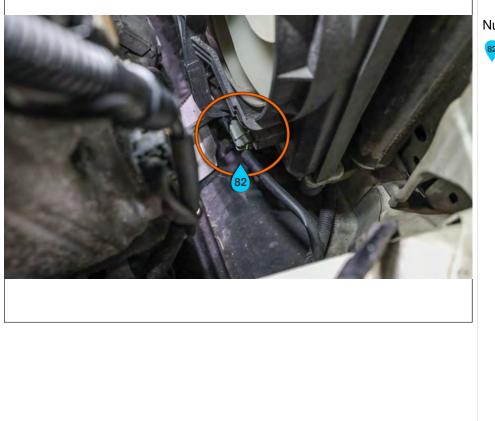




Step 103/111

Numbered annotations (1)

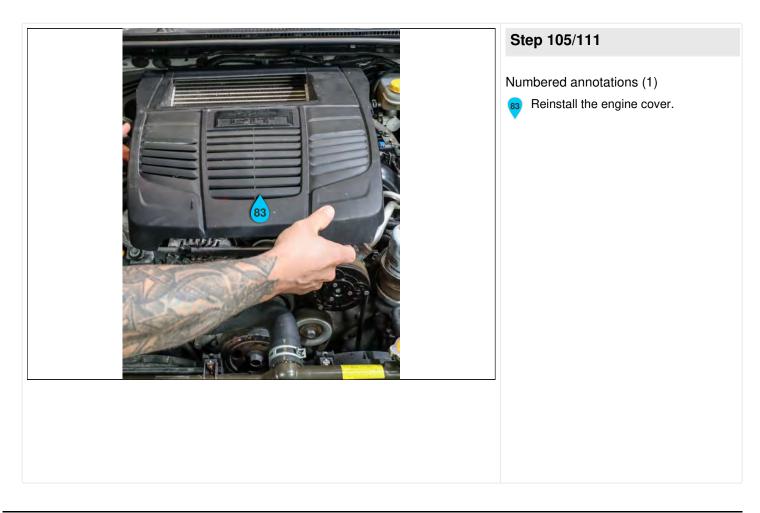
81 Secure the fan with the OEM bolts.

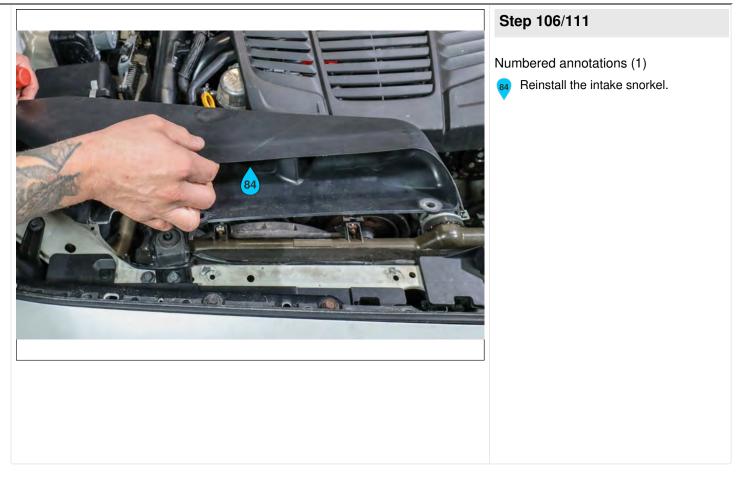


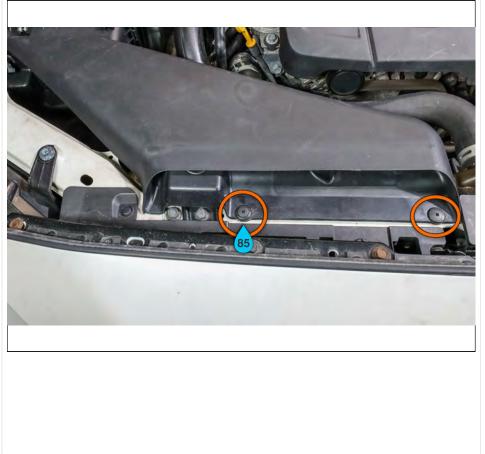
Step 104/111

Numbered annotations (1)

Plug the passenger fan electrical connector back in.



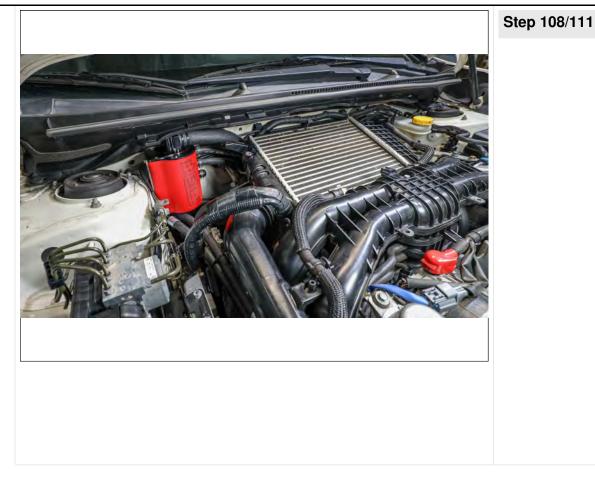




Step 107/111

Numbered annotations (1)

Secure the snorkel with the OEM hardware.



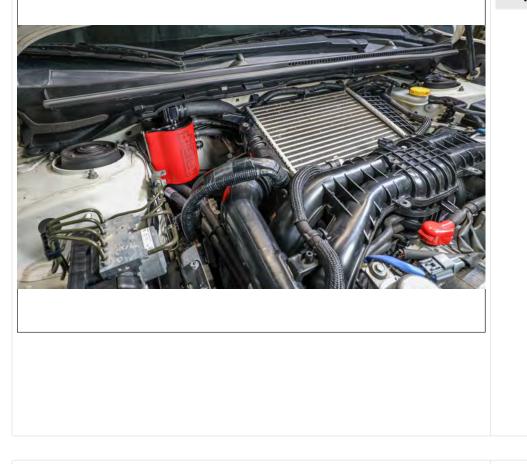


Step 109/111

Numbered annotations (1)

Reconnect the negative battery cable.

Step 110/111





Step 111/111

Numbered annotations (1)

 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.