

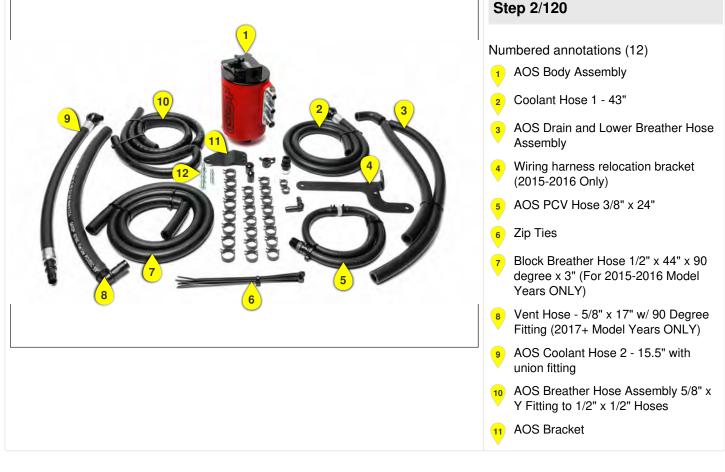
Step 1/120

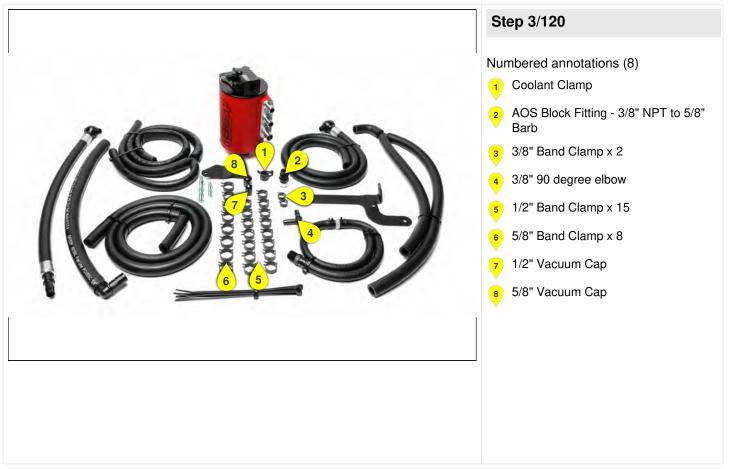
IAG-ENG-7182 Street Series Air / Oil Separator (AOS) For 2017-2020 WRX

Part# IAG-ENG-7182

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

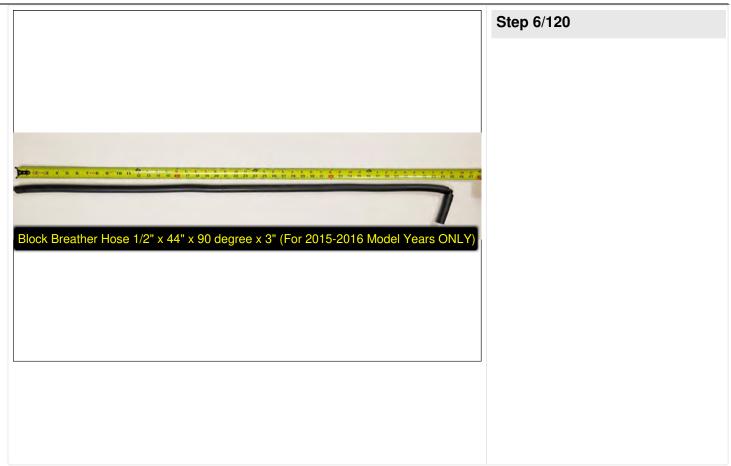
Congratulations on the purchase of your Air/Oil Separator (AOS) and thank you for choosing IAG Performance. This installation manual is intended to guide you through the modification of the factory PCV system and the installation of the IAG AOS. If you already have an aftermarket catch can or AOS installed,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





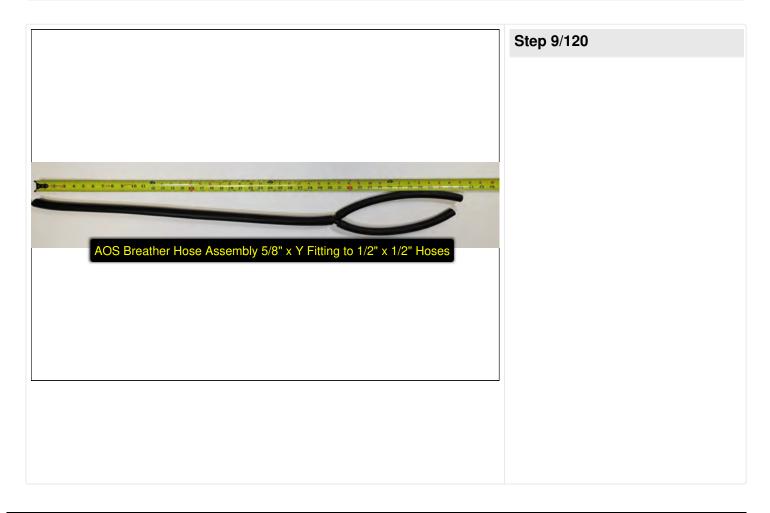
	Step 4/120
1992-24557-4557-1000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Coolant Hose 1 - 43"	









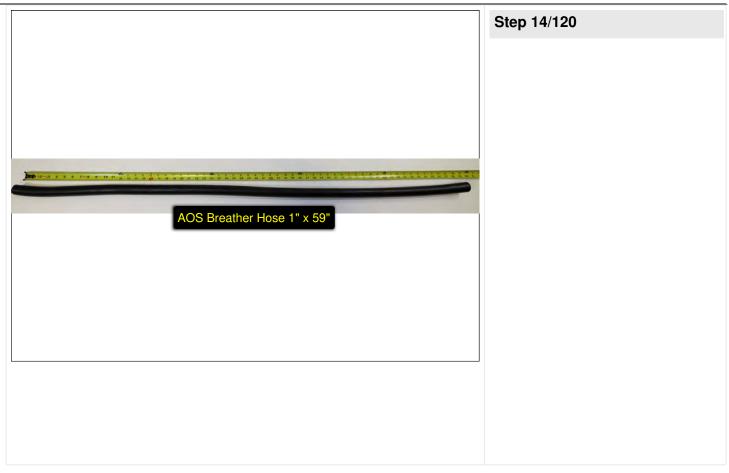




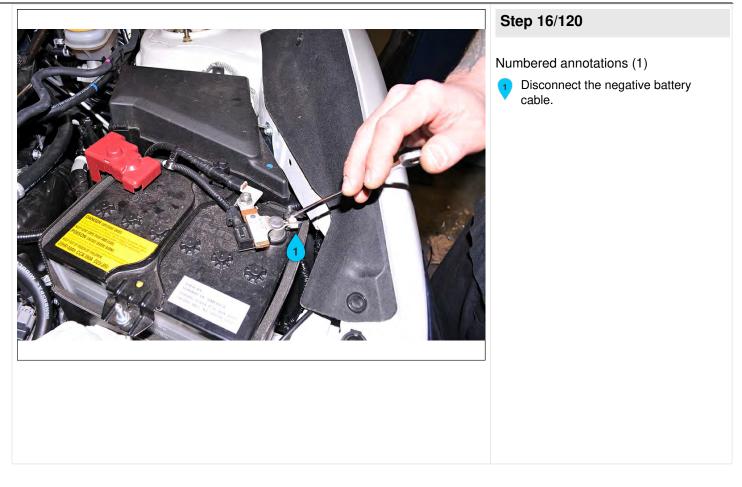
	Step 11/120
AOS Breather Hose 1" x 59"	







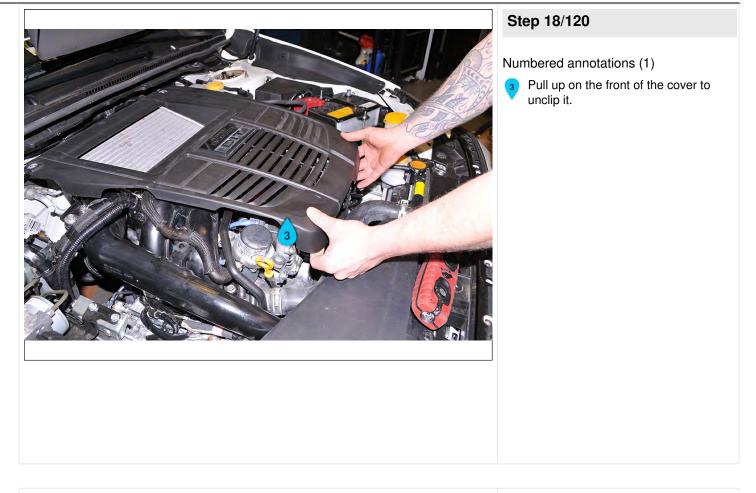


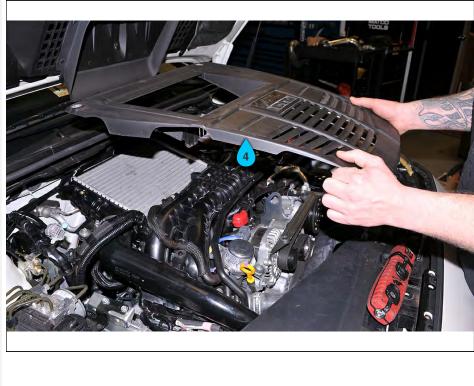




Numbered annotations (1)

Remove the clips securing the engine cover.

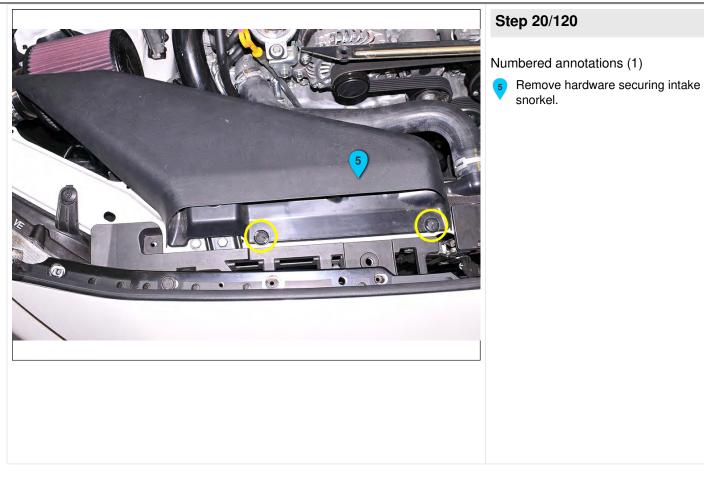




Step 19/120

Numbered annotations (1)

A Remove engine cover.

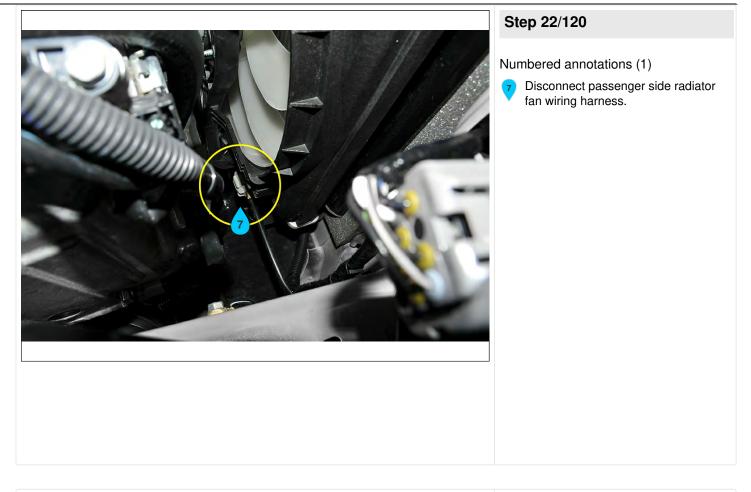




Step 21/120

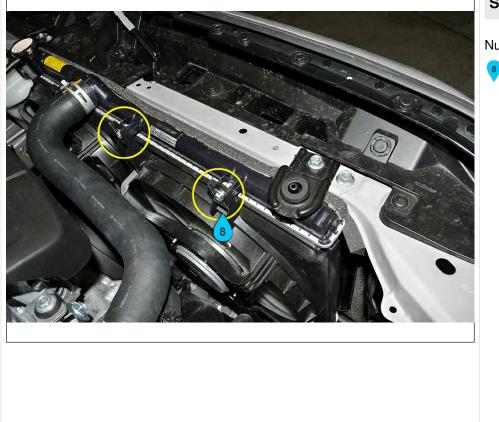
Numbered annotations (1)

6 Remove intake snorkel.





Step 23/120



Step 24/120

Numbered annotations (1)

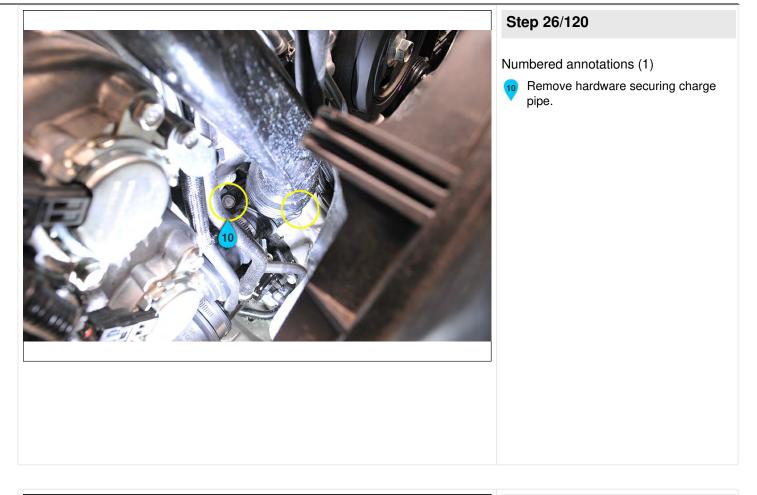
Remove hardware securing passenger side radiator fan.



Step 25/120

Numbered annotations (1)

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

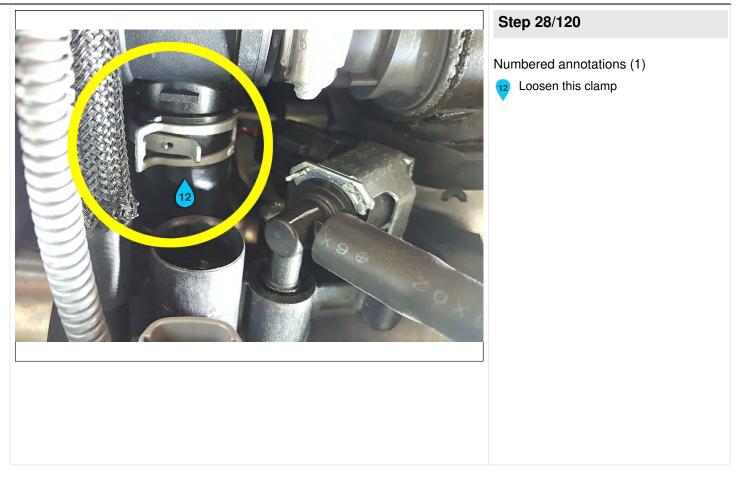


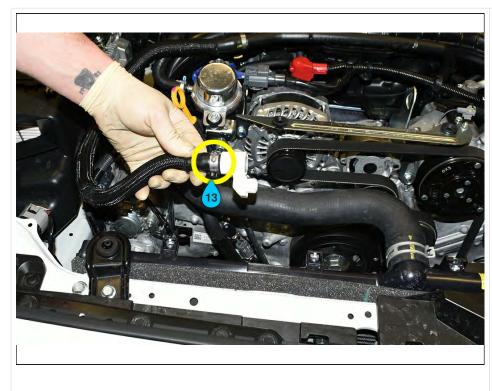


Step 27/120

Numbered annotations (1)

Disconnect the electrical connector here

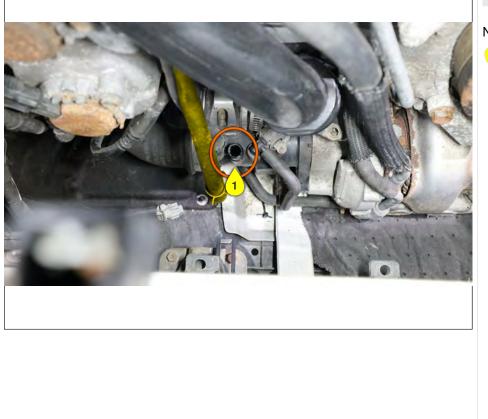




Step 29/120

Numbered annotations (1)

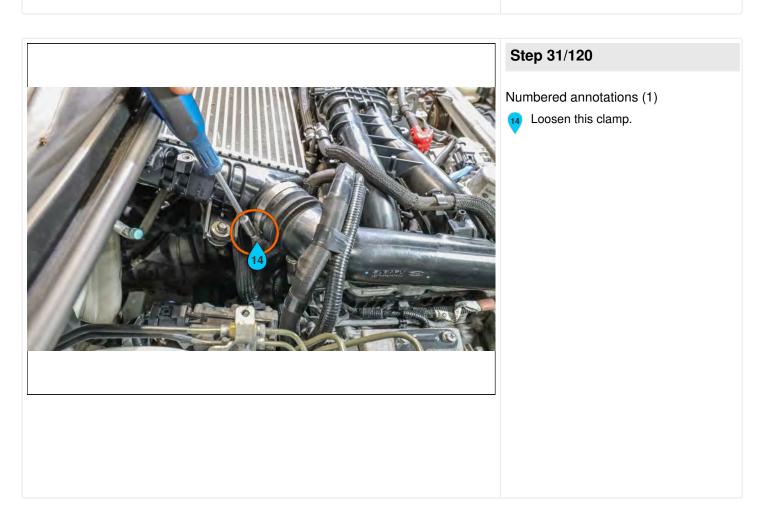
¹³ Using pliers, pry off the hose clamp that holds the white crankcase sensor to the turbo inlet pipe.

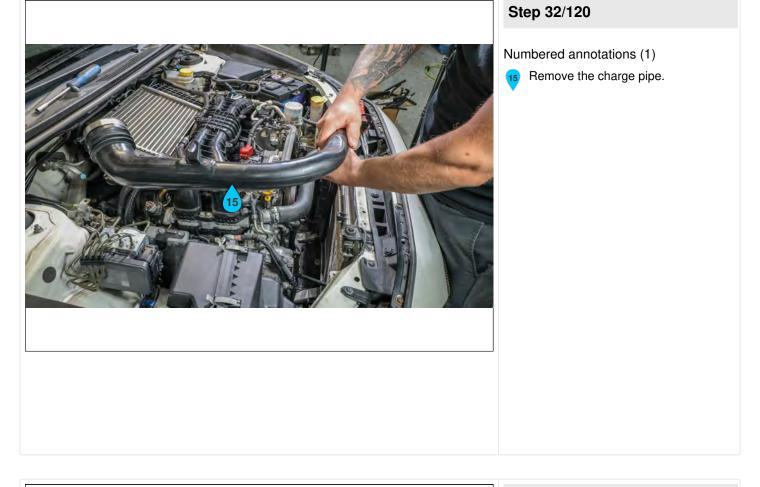


Step 30/120

Numbered annotations (1)

AOS Breather hose will connect here later.



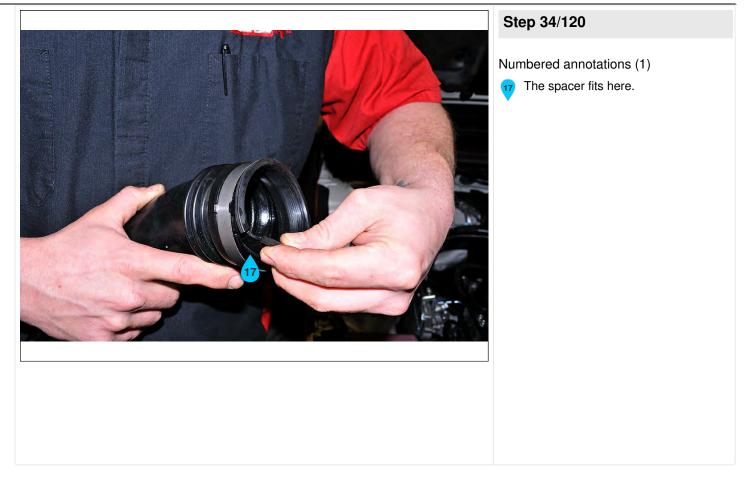


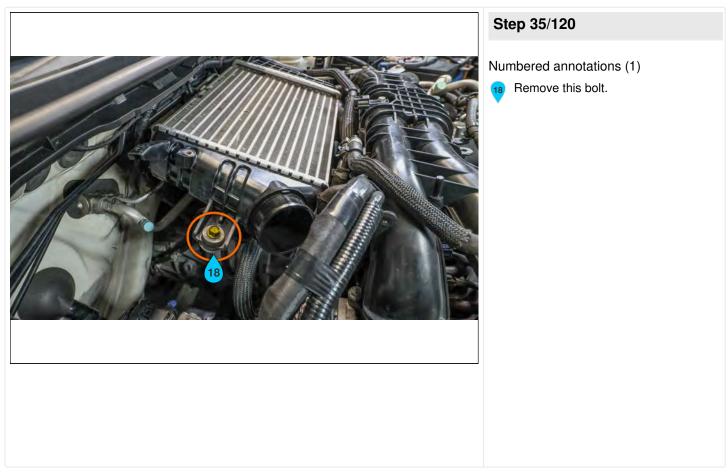


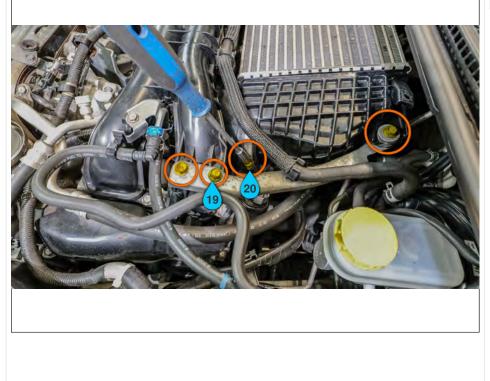
Step 33/120

Numbered annotations (1)

Ensure this part stays in the charge pipe.



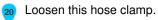


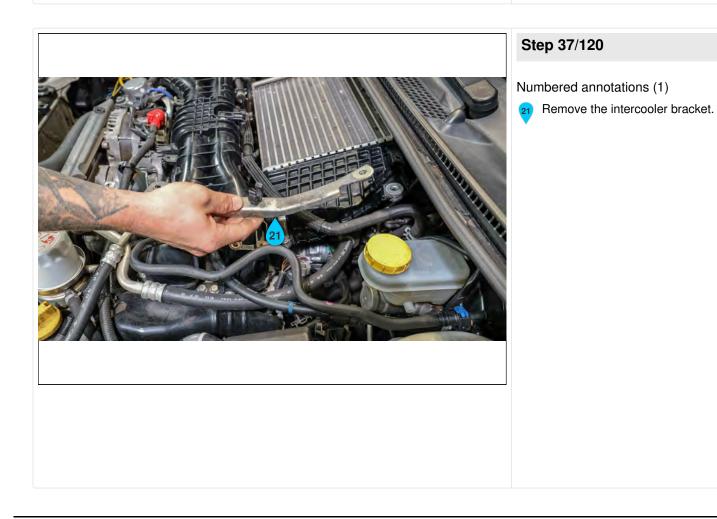


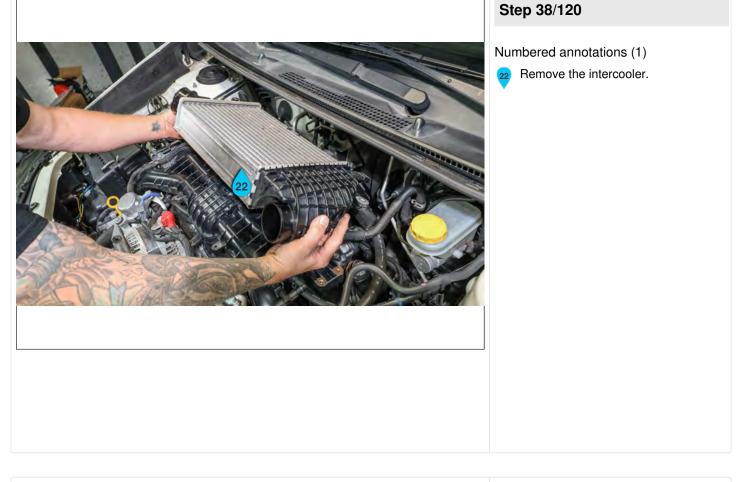
Step 36/120

Numbered annotations (2)

Remove the 3 bolts holding the intercooler and bracket.





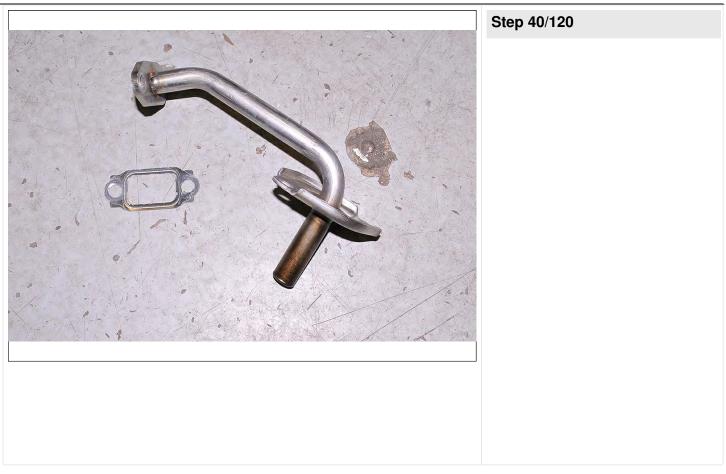




Step 39/120

Numbered annotations (1)

Remove the hardware securing this pipe behind the intake manifold.

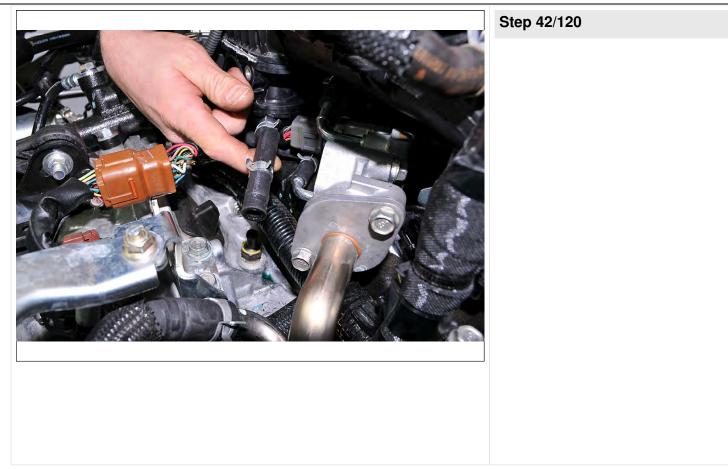


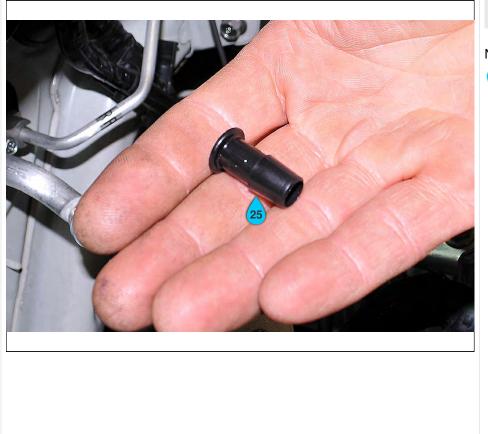


Step 41/120

Numbered annotations (1)

Loosen this clamp and disconnect this hose.





Step 43/120

Numbered annotations (1)

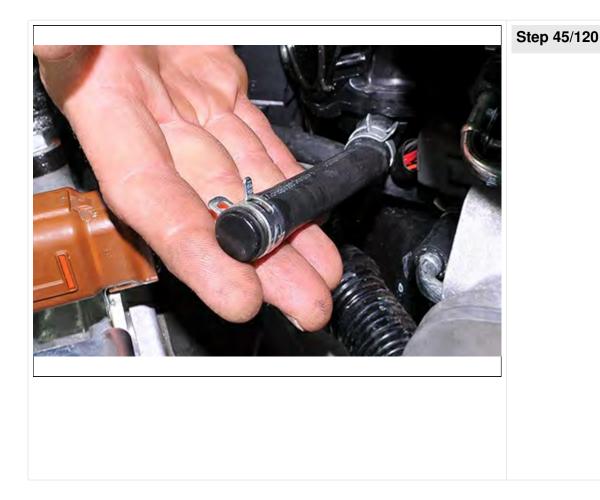
25 Locate the supplied vacuum cap.

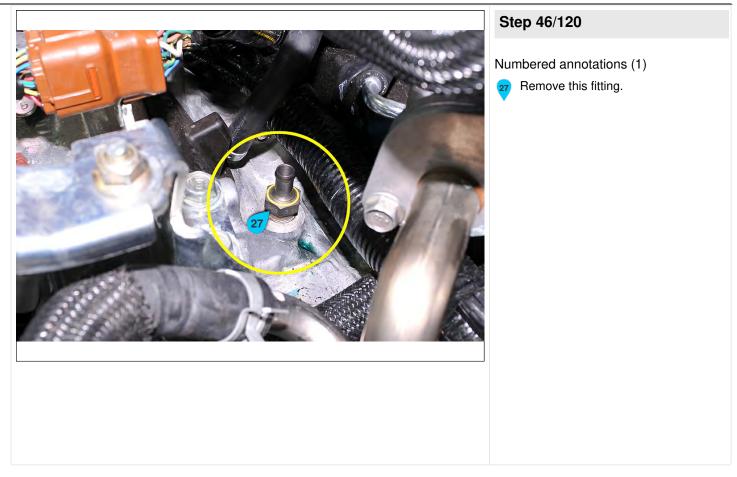


Step 44/120

Numbered annotations (1)

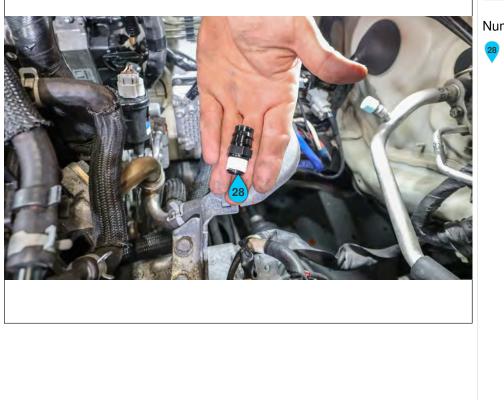
Install the supplied vacuum cap in this hose, secured with the OEM clamp.







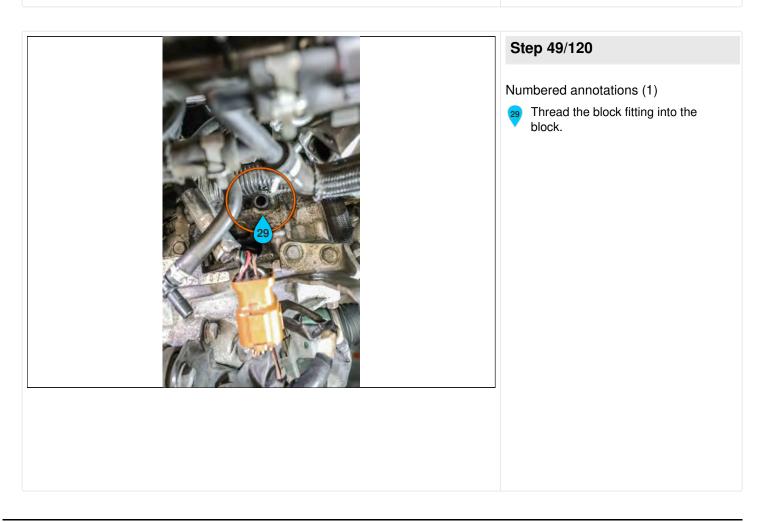
Step 47/120

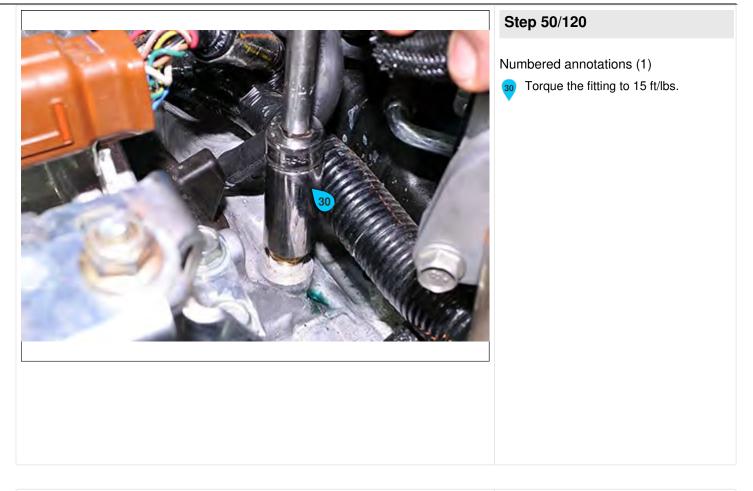


Step 48/120

Numbered annotations (1)

Locate the supplied block breather fitting.



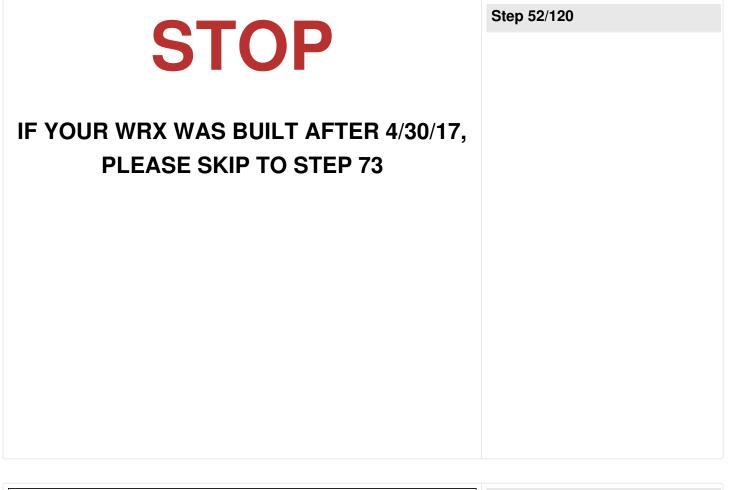




Step 51/120

Numbered annotations (1)

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

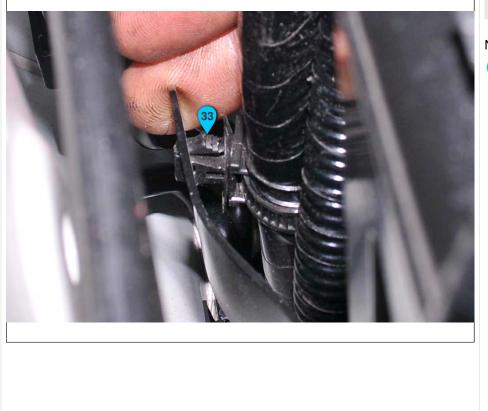




Step 53/120

Numbered annotations (1)

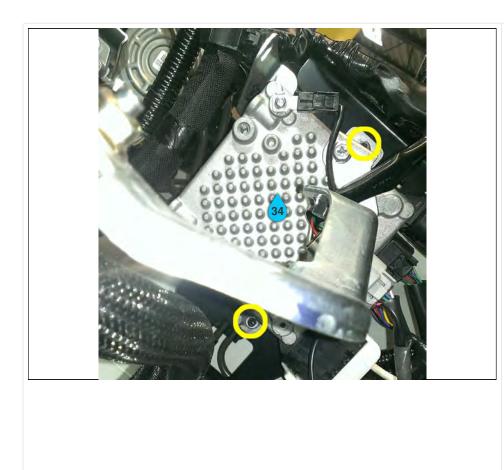
Remove the 4 wiring harness retaining clips from the ECU mounting bracket.



Step 54/120

Numbered annotations (1)

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

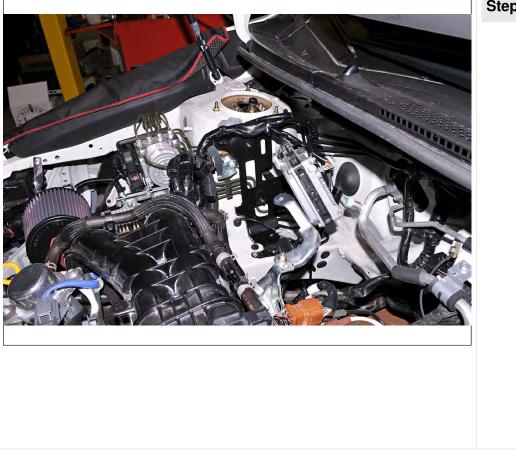


Step 55/120

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 56/120

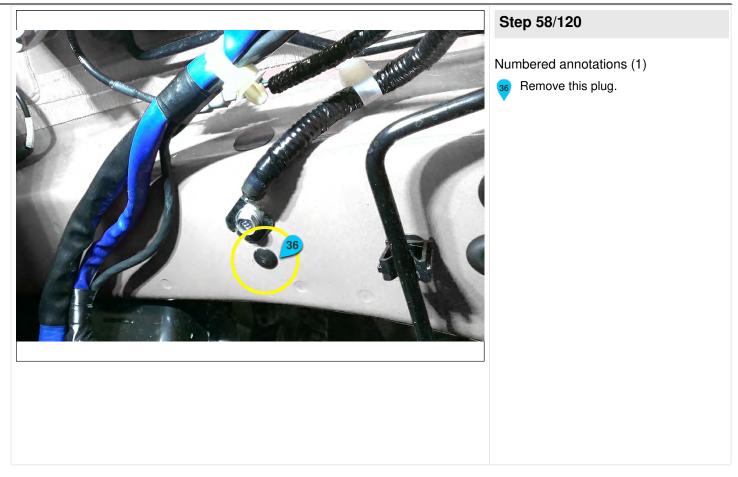




Step 57/120

Numbered annotations (1)

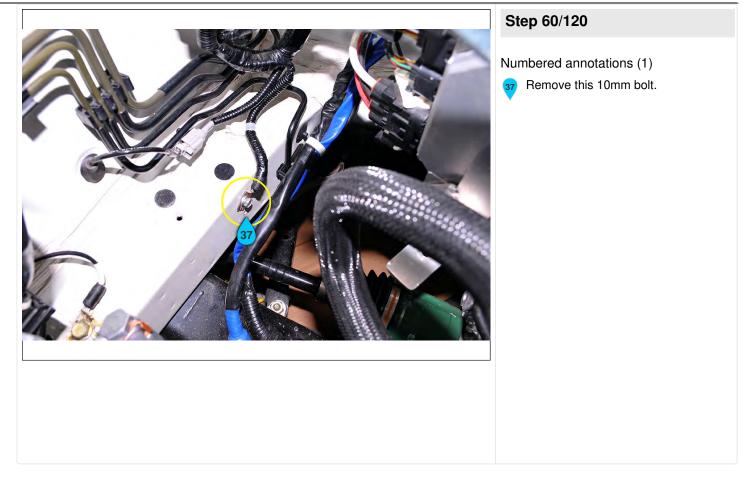
 Remove the two 10mm bolts which secure the ECU bracket to the strut tower. Remove the bracket.





Step 59/120

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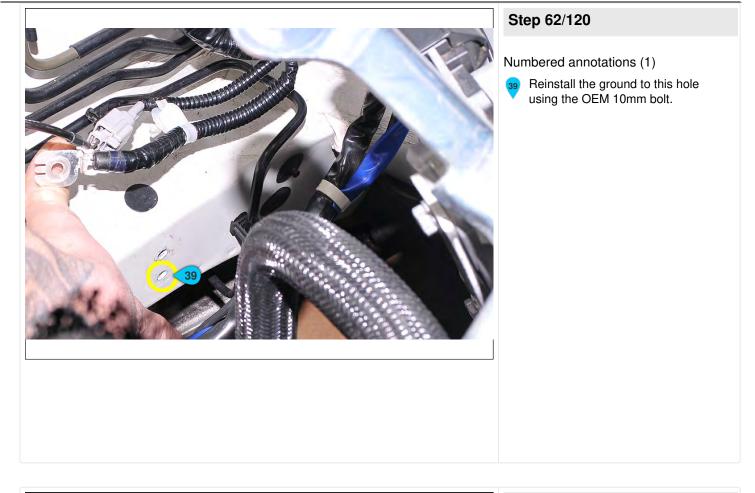


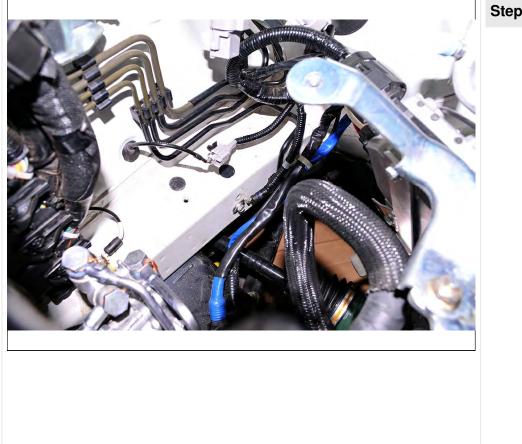


Step 61/120

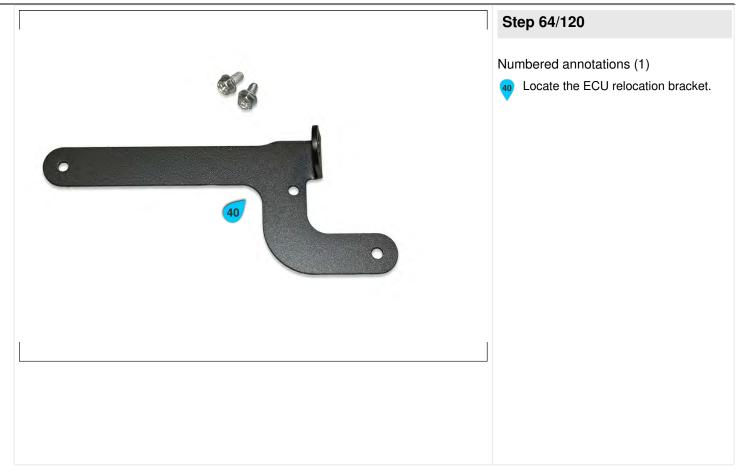
Numbered annotations (1)

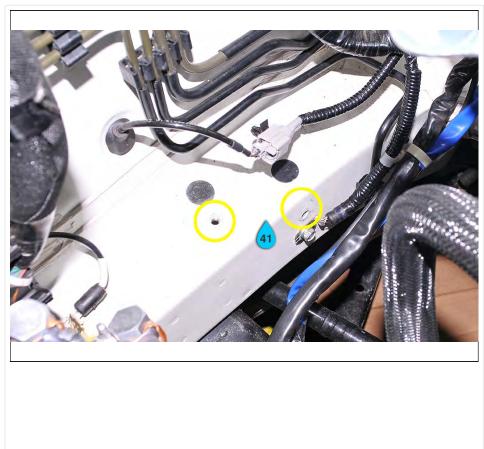
Use pliers to remove this mounting tie from the frame rail.





Step 63/120

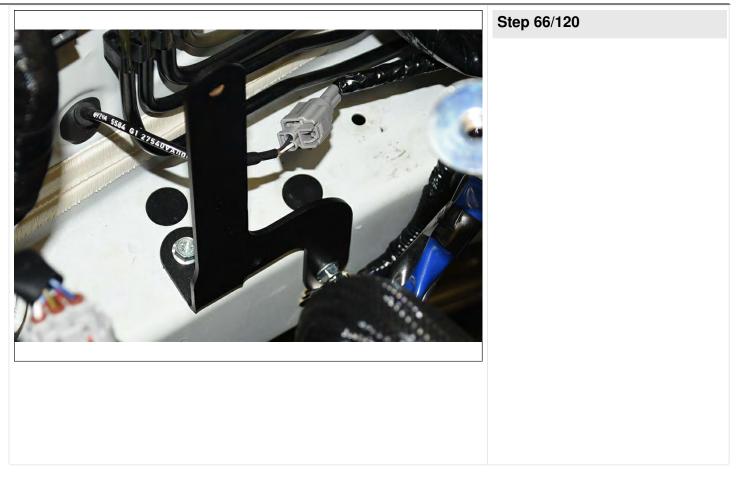


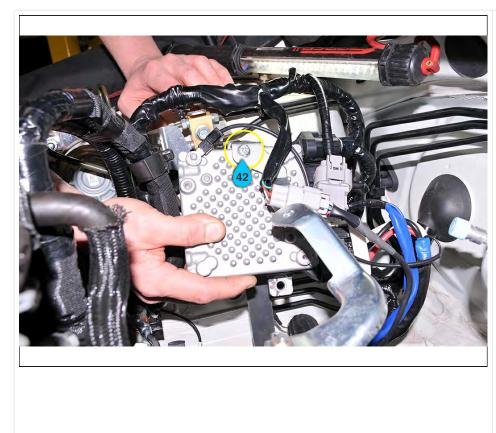


Step 65/120

Numbered annotations (1)

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

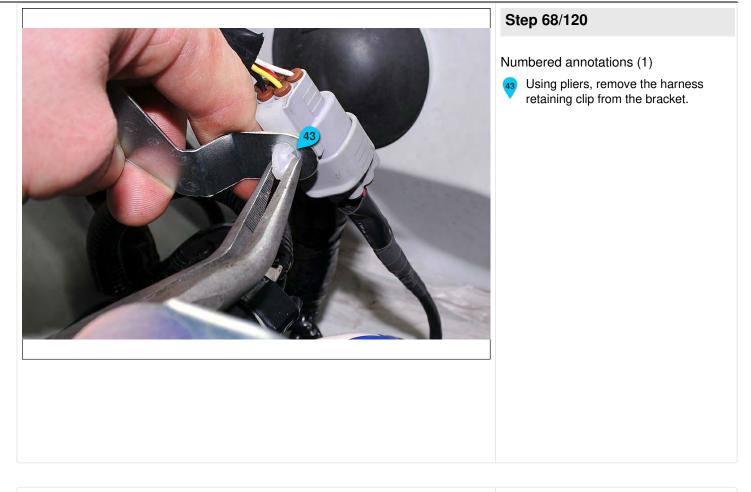




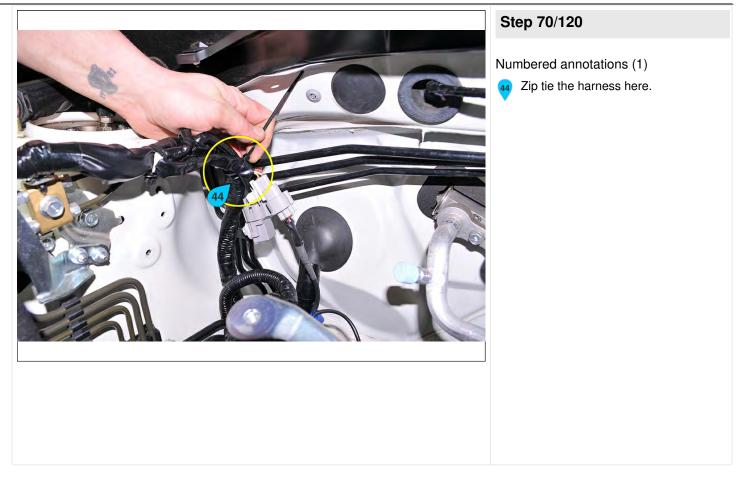
Step 67/120

Numbered annotations (1)

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





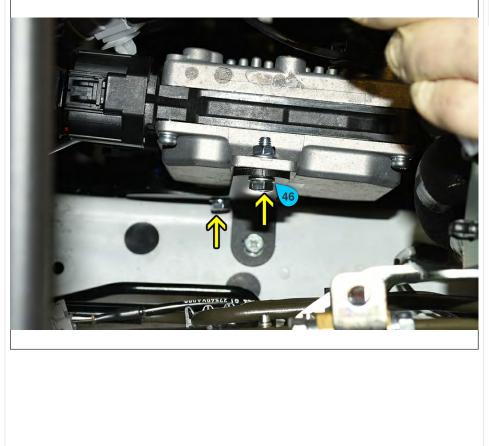




Step 71/120

Numbered annotations (1)

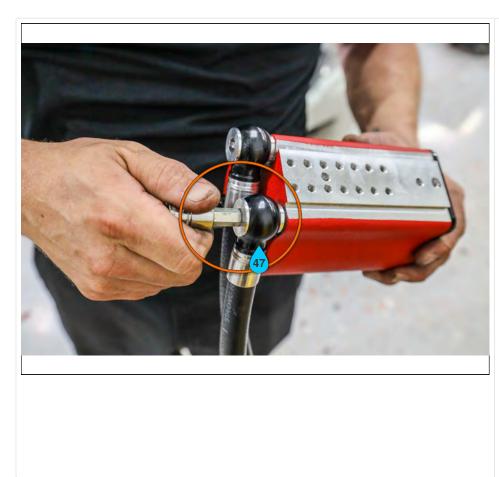
 Locate the supplied 6mmx15mm bolts, 6mm flat washers, and OEM ecu bracket nuts.



Step 72/120

Numbered annotations (1)

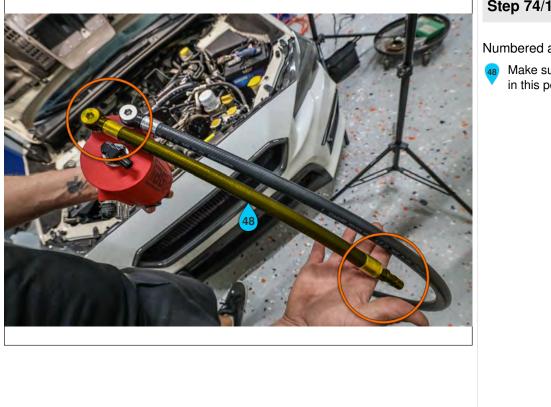
Attach the ECU to the bracket using the supplied 6mmx15mm bolts, 6mm flat washers, and the OEM nuts the secured the ecu to the OEM ECU bracket. (Make sure the bolt heads are on the bracket side.)



Step 73/120

Numbered annotations (1)

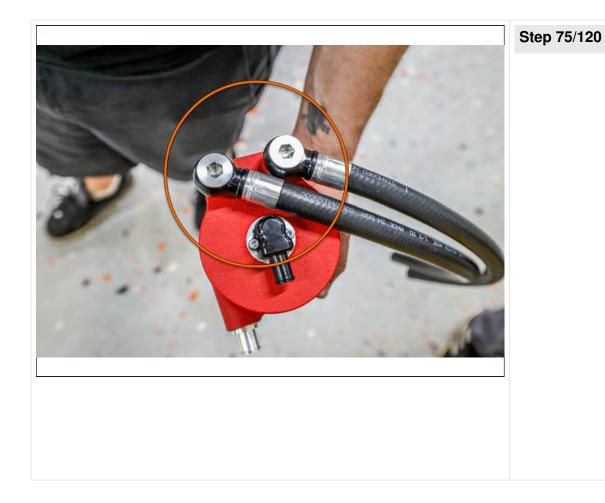
 Locate the AOS body assembly and coolant lines with fittings. Loosely install both hoses using the supplied fittings.

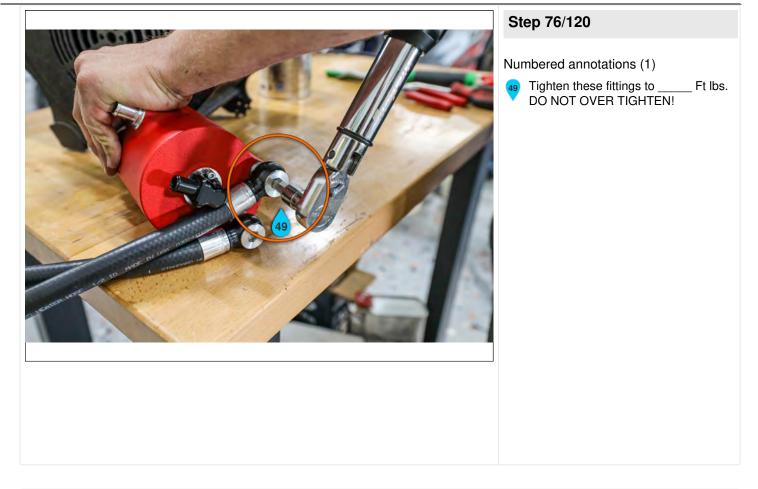


Step 74/120

Numbered annotations (1)

Make sure the shorter line is installed in this position.





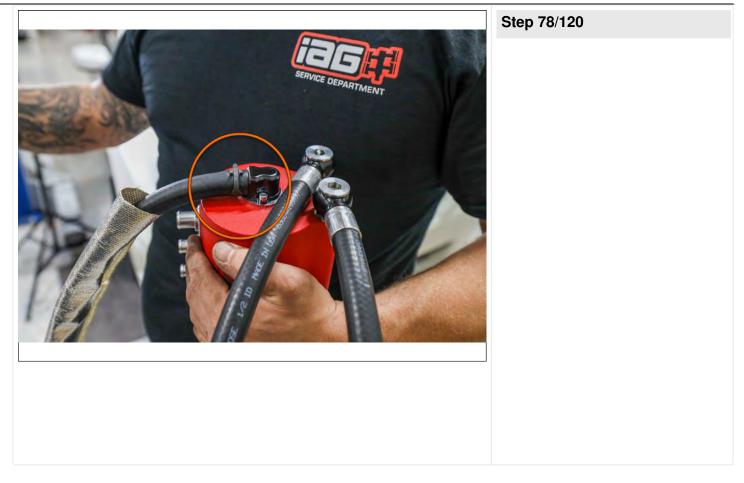


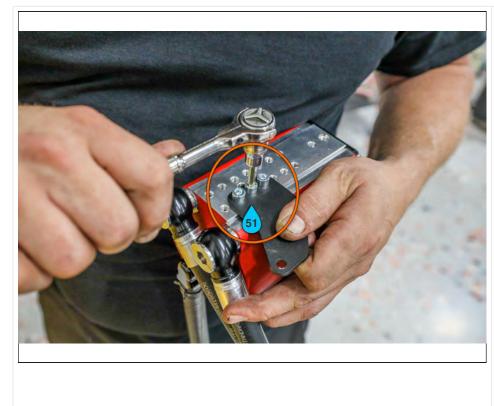
Step 77/120

Numbered annotations (1)

Attach the drain hose using the supplied clamp.

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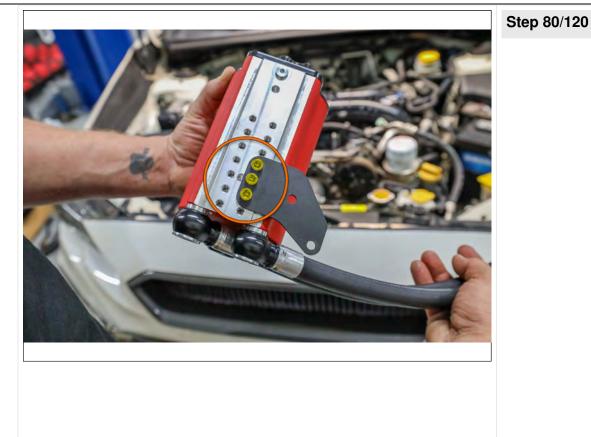




Step 79/120

Numbered annotations (1)

Locate the bracket and supplied hardware and install the bracket as shown. Tighten to 7 ft/lbs

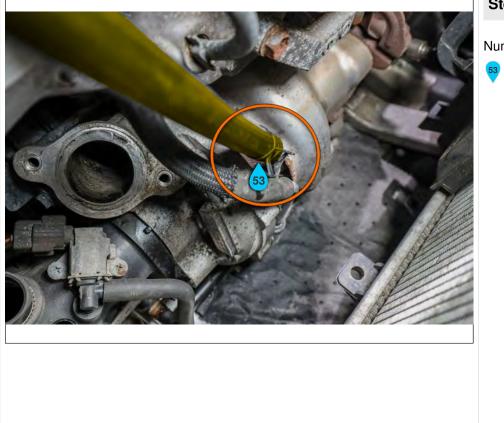




Step 81/120

Numbered annotations (3)

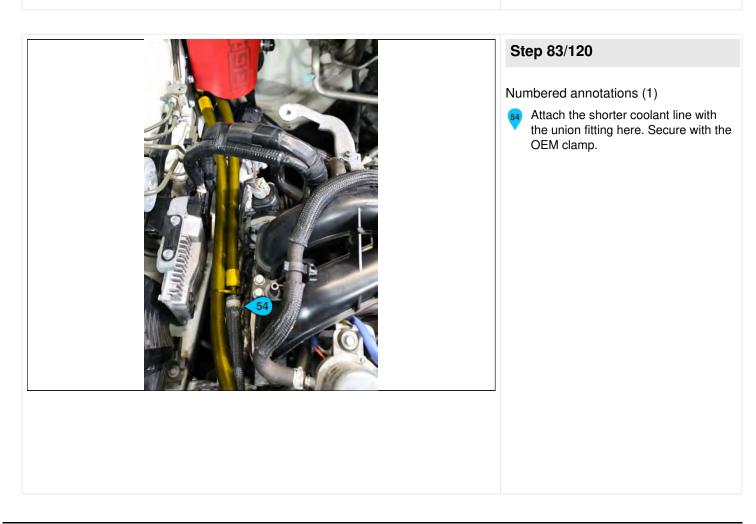
- 52 Mount the AOS here using the supplied bolts.
- Cap installed on this port for 2017+ vehicles
- 2 Cap installed on this port for 2015-2016 vehicles.



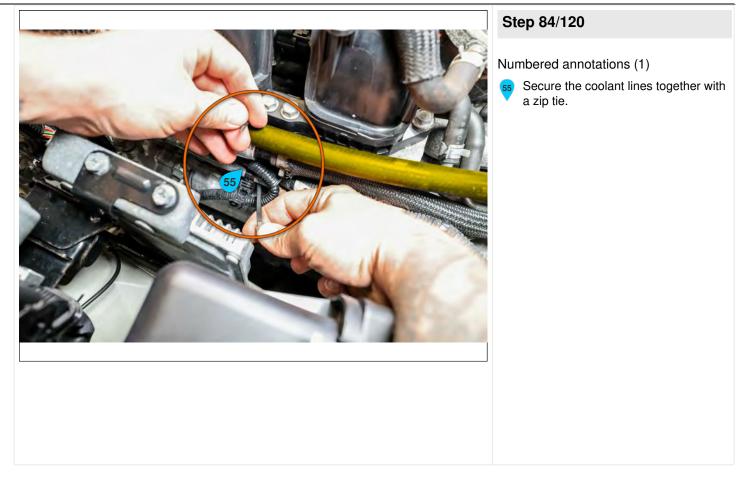
Step 82/120

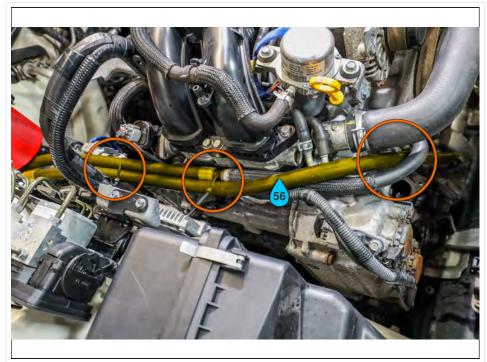
Numbered annotations (1)

Attach the longer coolant hose here using the supplied clamp.



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Step 85/120

Numbered annotations (1)

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



Step 86/120

Numbered annotations (1)

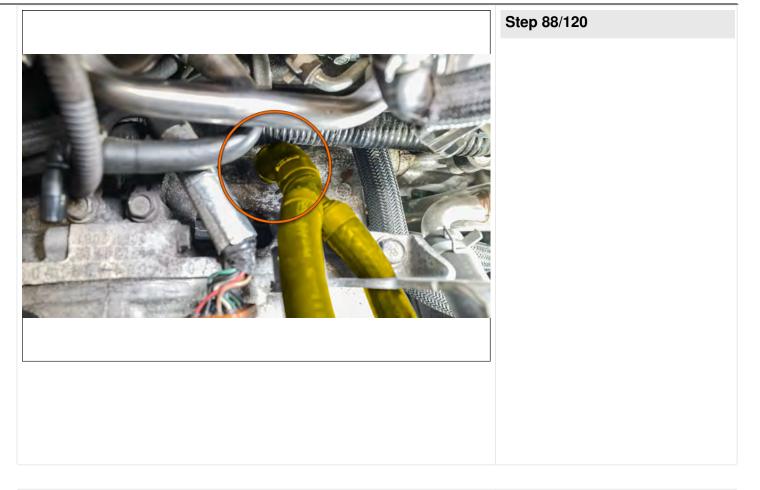
Locate the Y shaped breather hose assembly.

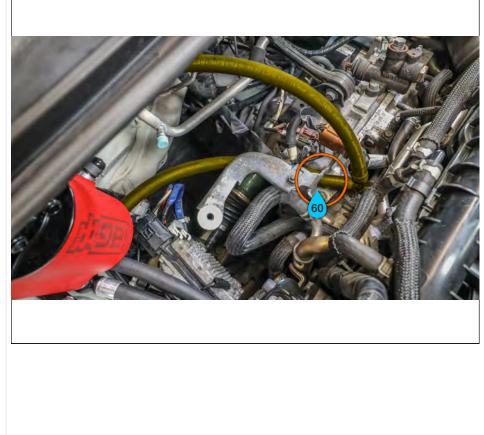


Step 87/120

Numbered annotations (2)

- B Pass one hose through the bracket.
- Attach 90 degree hose here using the supplied clamp.

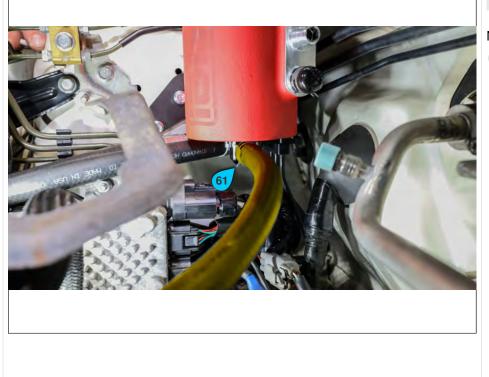




Step 89/120

Numbered annotations (1)

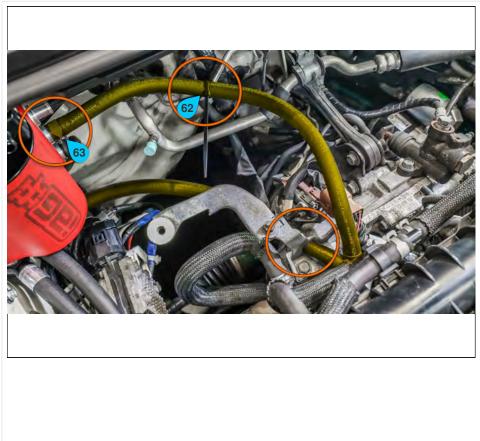
Ensure the drain hose is routed through this bracket. Measure and trim to length to attach the drain hose to the bottom of the AOS



Step 90/120

Numbered annotations (1)

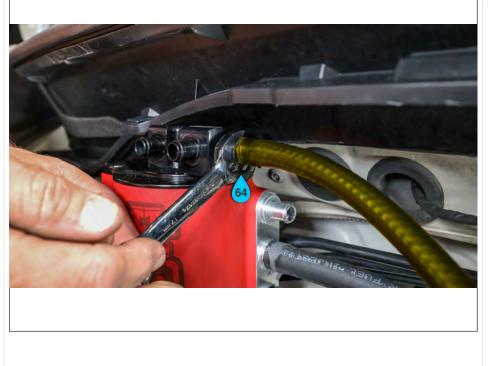
- 61
- Attach the drain hose here using the supplied clamp.



Step 91/120

Numbered annotations (2)

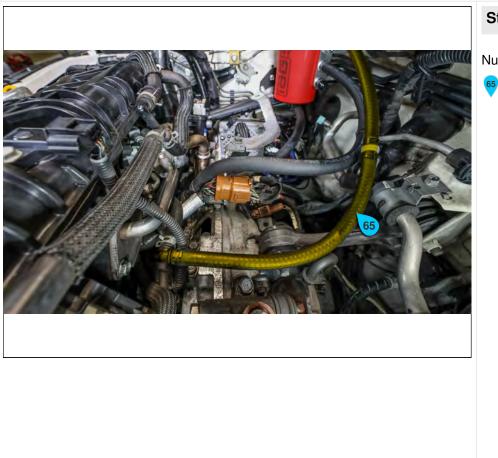
- Secure the vent hose assembly here with a zip tie.
- Attach the vent hose to the middle port on the side of the AOS using the supplied clamp.



Step 92/120

Numbered annotations (1)

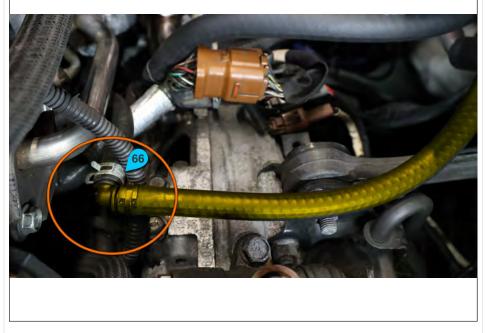
 Locate the 3/8" AOS PCV hose assembly. (This hose has a white PCV valve in the middle. Screw the NPT fitting into the AOS, being careful not to over tighten.



Step 93/120

Numbered annotations (1)

Foute the AOS PCV hose as pictured.



Step 94/120

Numbered annotations (1)

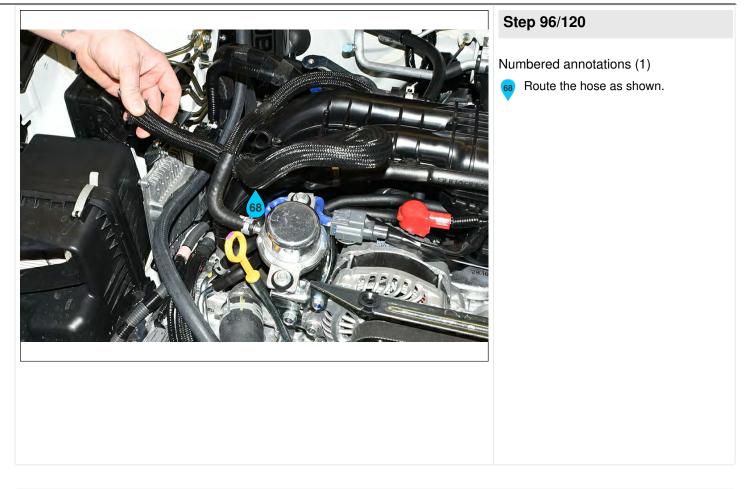
Attach this hose to to the hose coming from the intake manifold using the supplied 3/8" 90 degree fitting, the supplied clamp on one side and the OEM clamp on the other side.



Step 95/120

Numbered annotations (1)

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

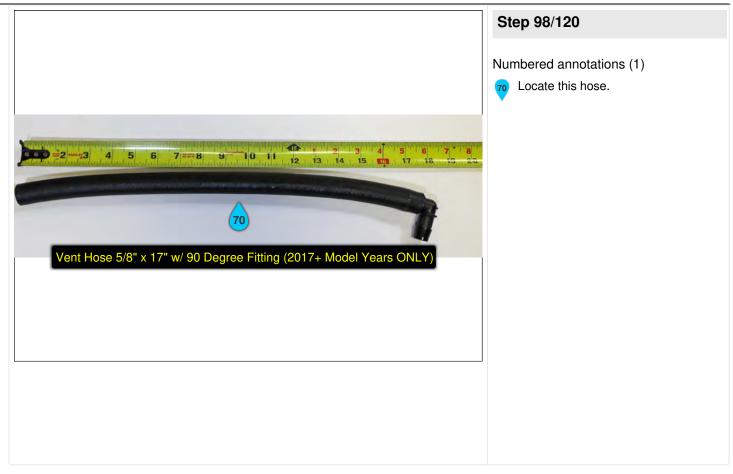


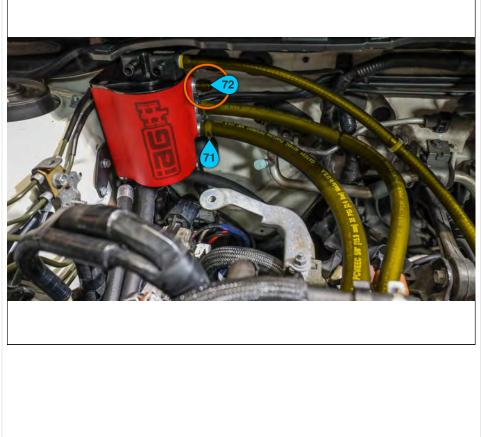


Step 97/120

Numbered annotations (1)

Boute vent hose through here.

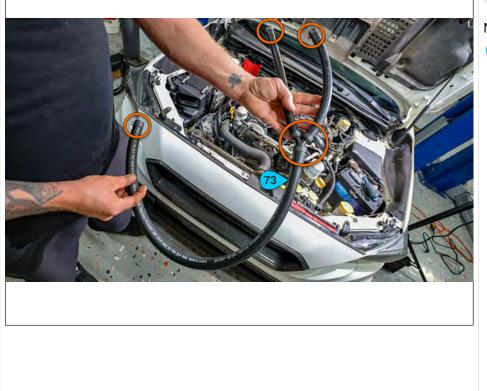




Step 99/120

Numbered annotations (2)

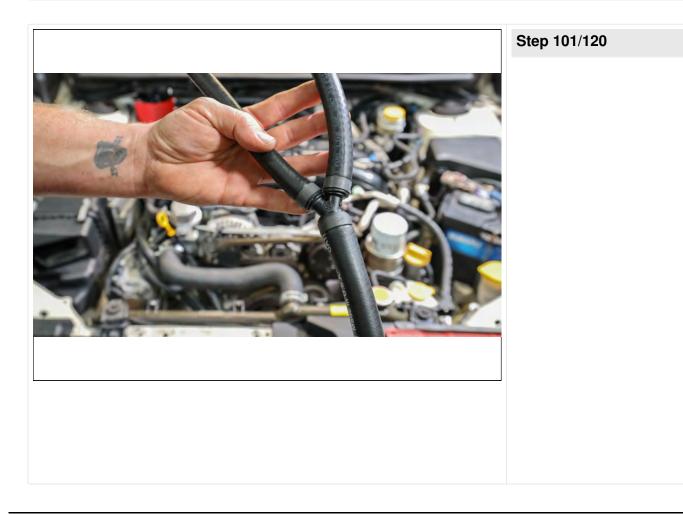
- Insert the 90 degree fitting into the hose in step 84, securing with the supplied clamps. Connect the open end of the hose to the 5/8" port here.
- 72 Ensure the 1/2" vacuum cap is installed here and secured with the supplied clamp on the 2017+ vehicles.

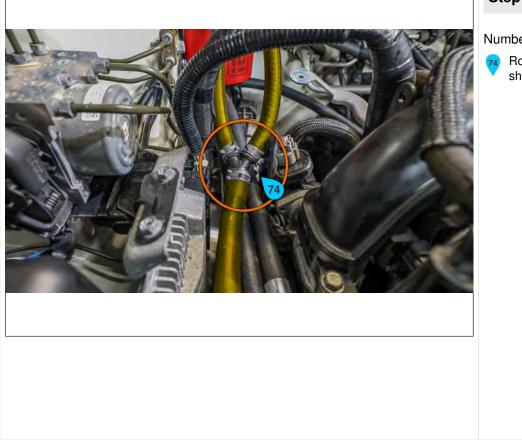


Step 100/120

Numbered annotations (1)

Locate the Y shaped AOS breather hose. Install the supplied clamps at all of the indicated positions.

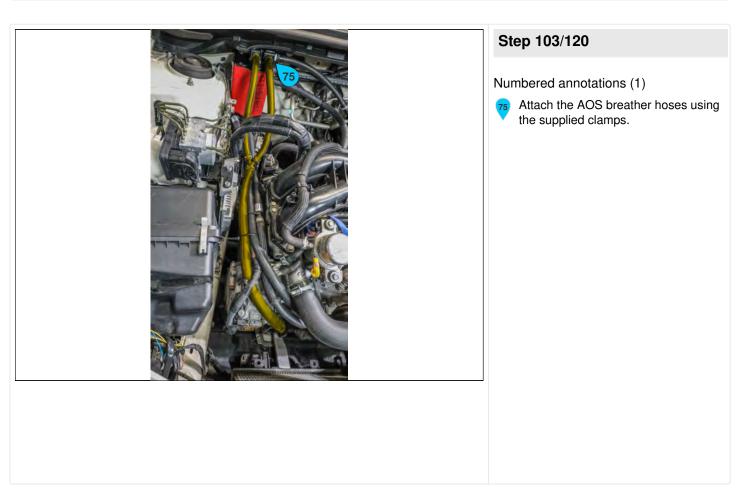




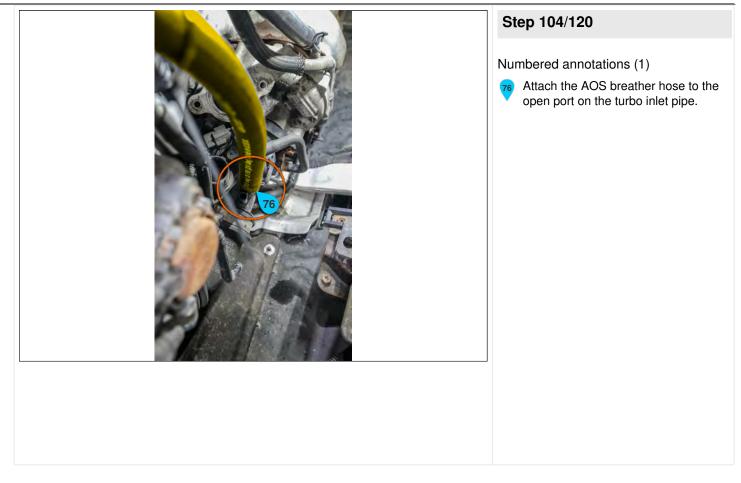
Step 102/120

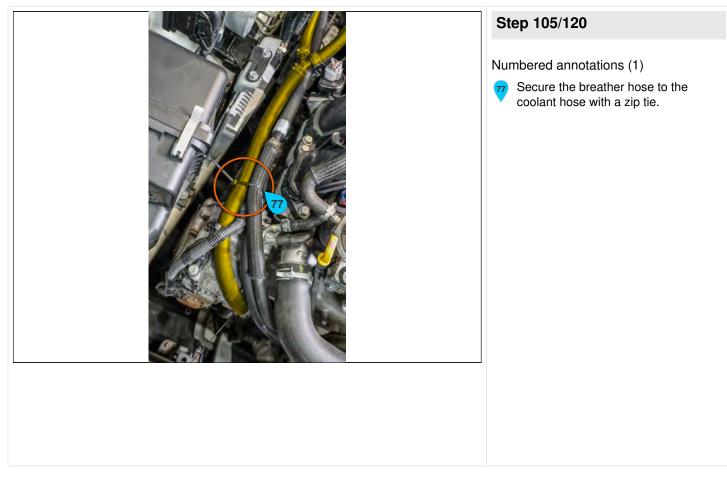
Numbered annotations (1)

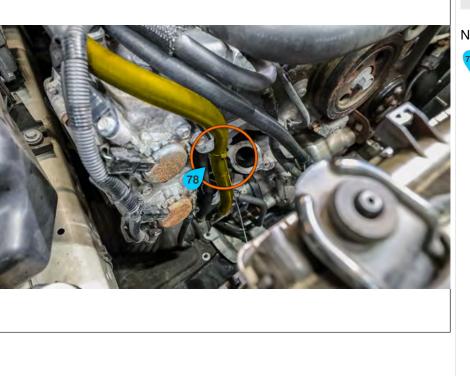
Route the AOS breather hoses as shown.



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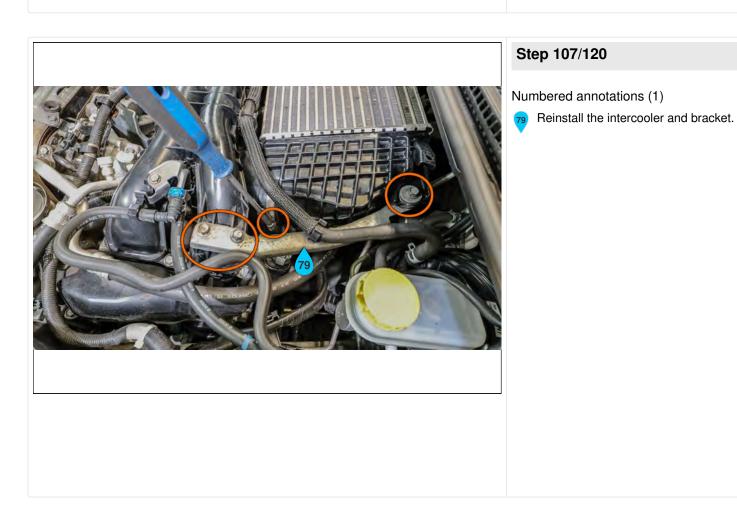


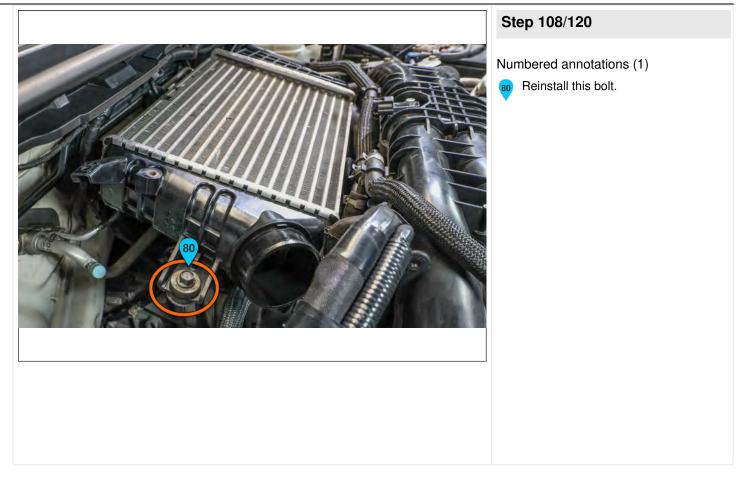


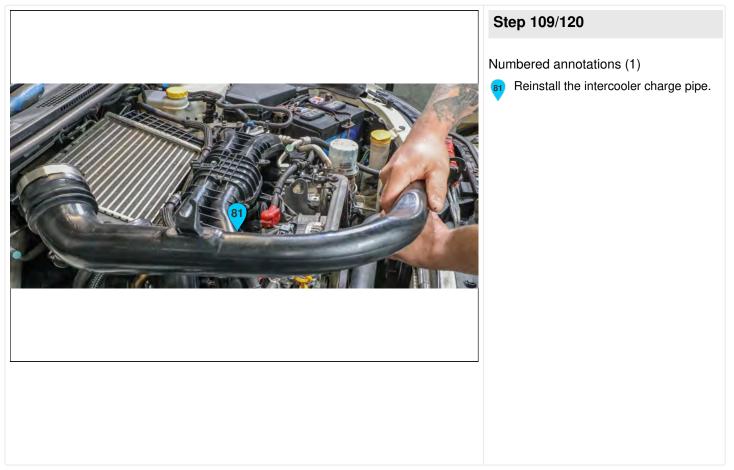
Step 106/120

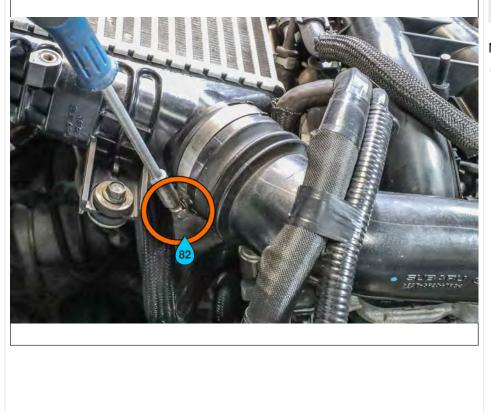
Numbered annotations (1)

Recure the AOS breather hose with another zip tie here.





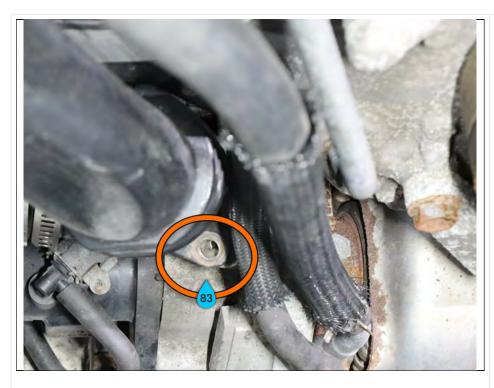




Step 110/120

Numbered annotations (1)

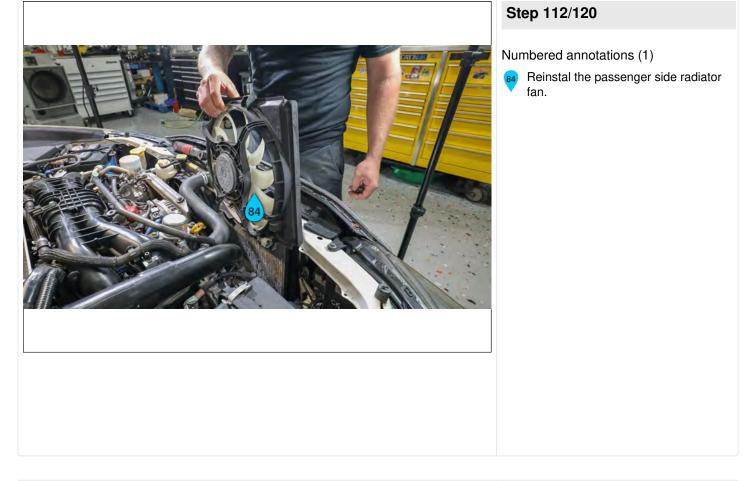
Attach the charge pipe to the intercooler and tighten this clamp.



Step 111/120

Numbered annotations (1)

Reinstall both bolts for the charge pipe to the turbocharger.

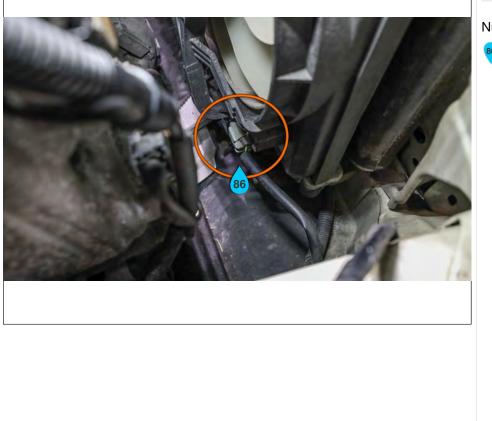




Step 113/120

Numbered annotations (1)

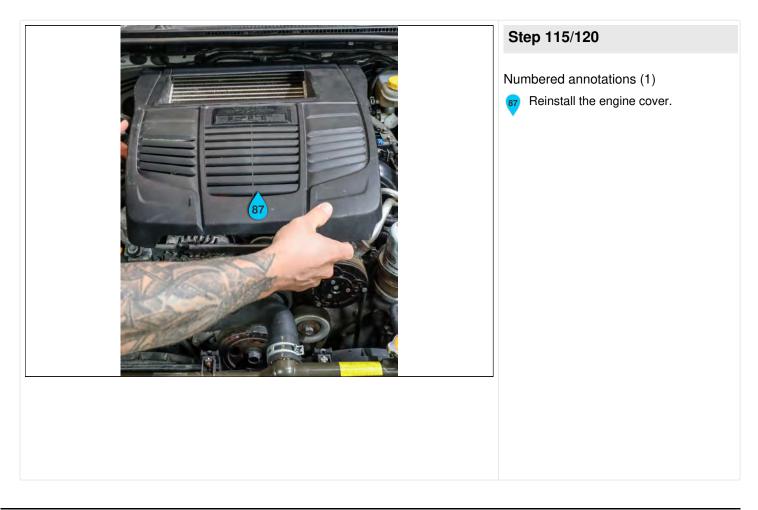
secure the fan with the OEM bolts.

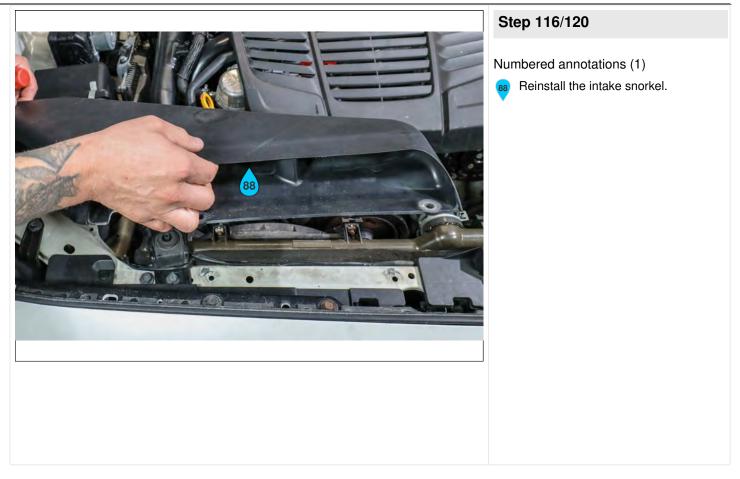


Step 114/120

Numbered annotations (1)

Plug the passenger fan electrical connector back in.



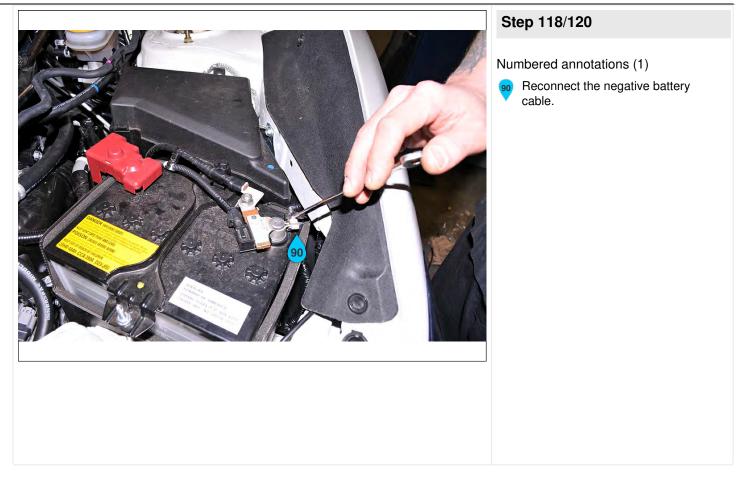


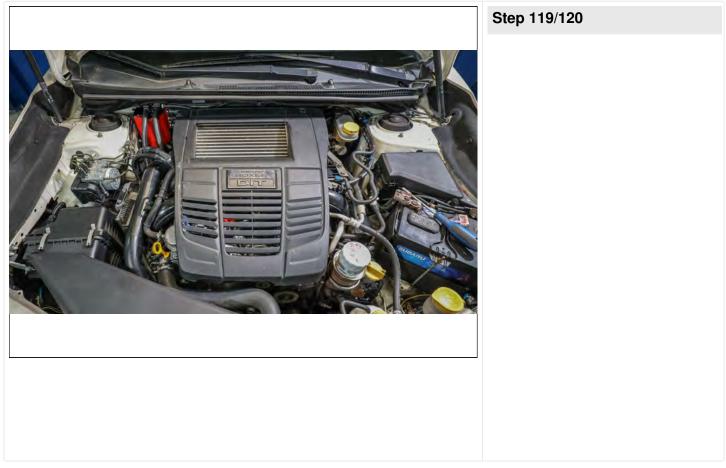


Step 117/120

Numbered annotations (1)

Becure the snorkel with the OEM hardware.







Step 120/120

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.