IAG Air Oil Separator For 2020+ Outback XT and 2022+ Outback Wilderness







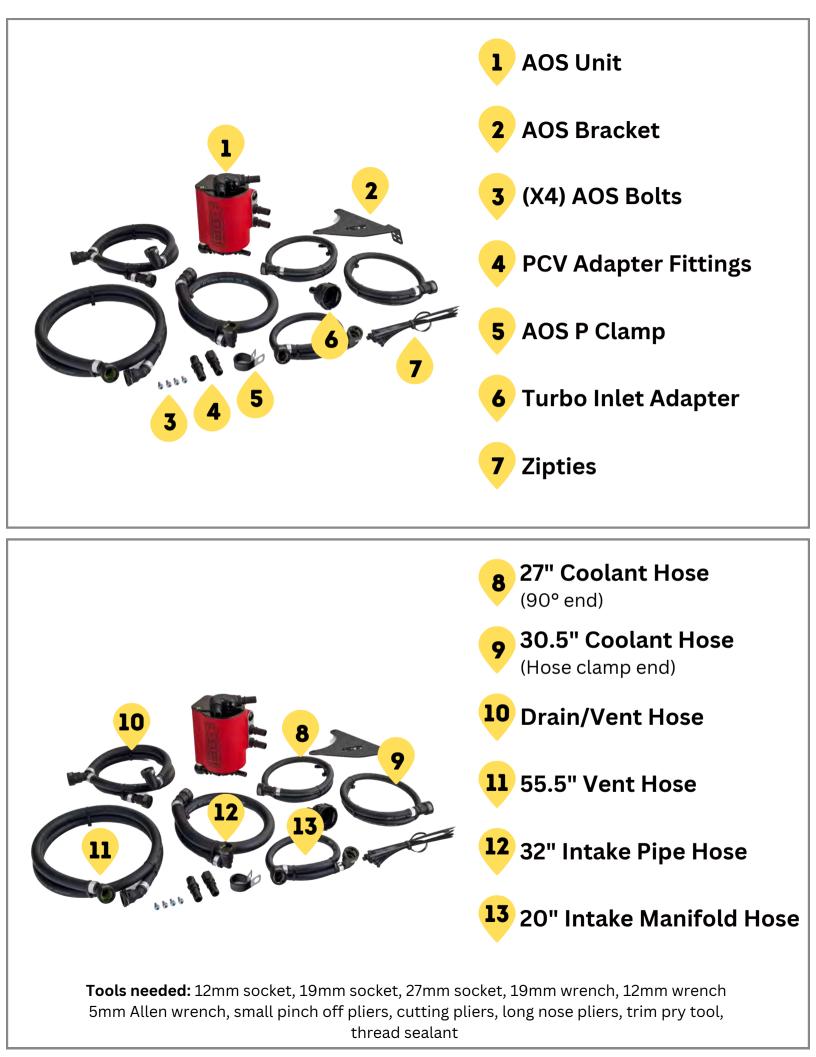
IAG-ENG-7191 IAG Air Oil Separator For 2020+ Outback XT, 2022+ Outback Wilderness

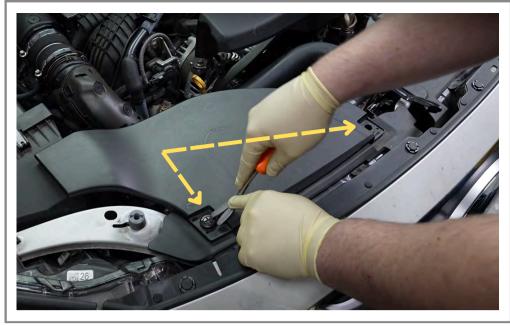
Congratulations on the purchase of your Air Oil Separator, and thank you for choosing IAG Performance! These instructions are intended for users with basic mechanical skills. Professional installation is not required.

Installation video can be found on our website.



Please read through the entire instruction manual before beginning work on your vehicle. 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.

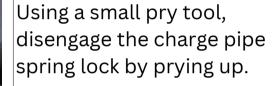




Using a trim pry tool, remove the two clips that hold the air snorkel.

Remove the air snorkel.

Step 2



Once the spring lock is in the open position it will lock in place.



Step 3

Remove the three 12mm bolts from the intercooler bracket on the passenger side.

Remove the bracket.





Remove the four 12mm bolts from the intercooler bracket on the passenger side.

Remove the bracket.

Step 5

Remove the two 12mm bolts from the throttle body.





Step 6 Remove the intercooler.

Slide the intercooler toward the rear of the car, and lift up to remove the intercooler.



Remove the 12mm bolt from the charge pipe.

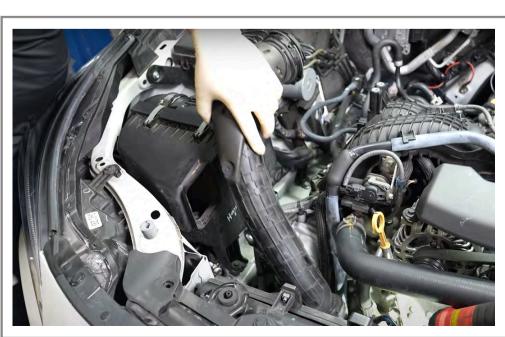


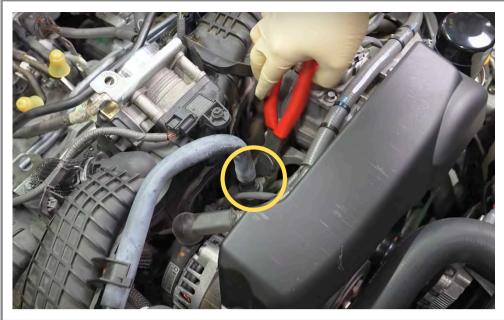
Using a long pry tool, disengage the spring lock on the bottom end of the charge pipe.

Once the spring lock is in the open position it will lock in place.

Step 9

Remove the charge pipe from the vehicle.

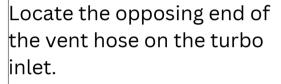




Locate the vent hose in front of the intake manifold.

Using cutting pliers, cut the collar off of the single use fitting.

Step 11



Using a long pry tool, disengage the spring lock.

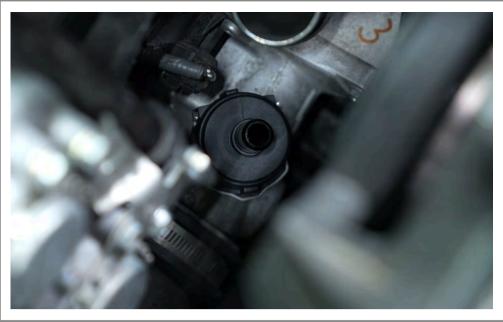
Once the spring lock is in the open position it will lock in place.

Step 12

Remove and discard the factory vent hose.



Step 12 pt. 2

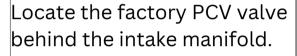


Install the provided Turbo Inlet adapter onto the turbo inlet.

Ensure that the spring lock is engaged and properly seated.



Step 13

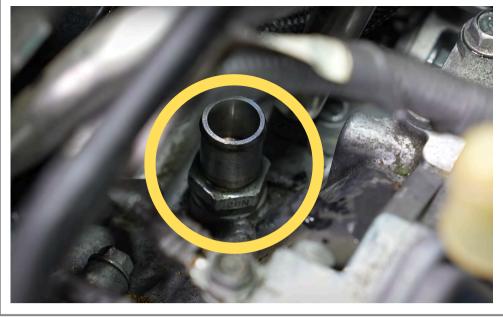


Using a long pliers, disengage the hose clamp.





Step 13 pt. 2 Remove the intake manifold hose from the PCV valve.



Remove the PCV valve from the block with a 27mm socket.



Step 15 pt. 2

Prepare the provided PCV adapter fitting with external threads.

Apply thread sealant to the threads of the fitting.





Step 16 Install the PCV adapter fitting into the block with a 19mm socket.

Tighten until snug.

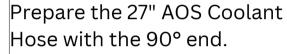
Recommended



When installing the quick disconnect fittings, it is recommended to apply a small amount of multipurpose automotive grease/lube to the O-rings.

This helps the O-rings to properly seat, and prevents the seals from pinching.

Step 17



Install the quick fitting end onto the AOS unit as shown.



Step 18 Prepare the 30.5" AOS Coolant Hose with the hose clamp end.

Install the quick fitting end onto the AOS unit as shown.









Assemble the AOS unit and bracket. Position the AOS bracket as shown, leaving 5 holes open toward the bottom.



Step 20



Using a 5mm Allen wrench, Install and tighten the AOS bolts.



Using a 12mm wrench, remove the two nuts from the passenger side strut tower.



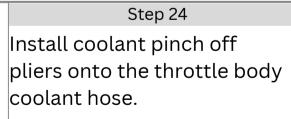


Install AOS assembly onto the strut tower.

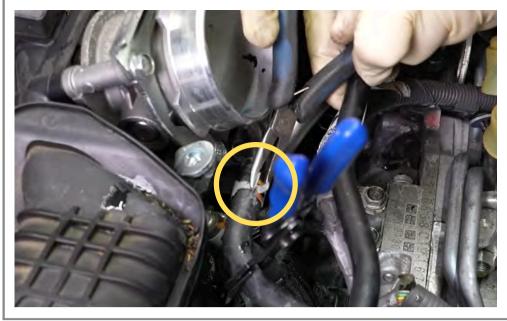




Reinstall the strut tower nuts and tighten.







Using pliers, loosen the hose clamp for the coolant line.

Step 25 pt. 2



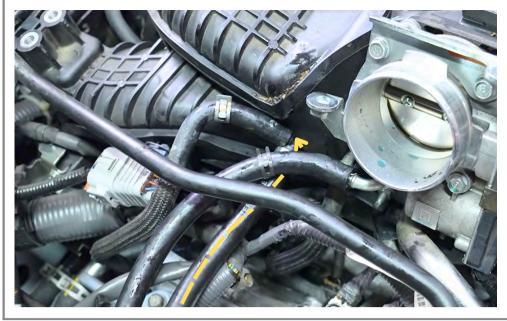
Remove the coolant line from the throttle body.

Step 26

Route the hose clamp end of the AOS coolant hose as shown.

Connect the AOS coolant hose to the throttle body.





Route the 90° hose end of the AOS Coolant Hose as shown.

Connect the AOS Coolant Hose to the factory coolant line.

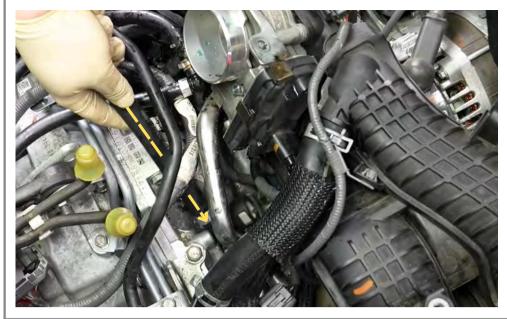


Step 28 Remove the pinch off pliers.

Step 29

Resecure both hose clamps for the coolant lines.





Prepare the AOS Vent/Drain hose.

Route the 90° hose end under the factory hardlines as shown.



Step 30 pt. 2 Continue routing the 90° end toward the AOS unit.

Connect the Y fitting to the PCV adapter fitting on the block.





Install the 90° hose end onto the lower side port of the AOS.





Connect the straight hose end to the bottom drain port of the AOS.

Step 33

Route the AOS drain hose and AOS coolant hoses toward the rear of the vehicle.

Zip-tie the AOS coolant hoses and drain hose onto the bracket as shown.

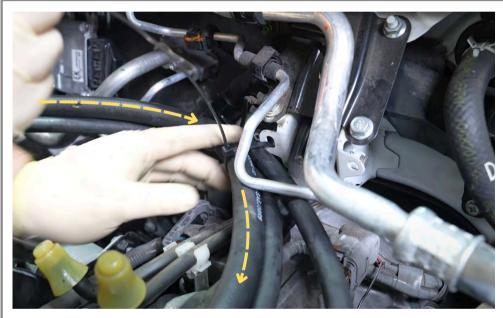
Trim excess zip-tie.

Step 34

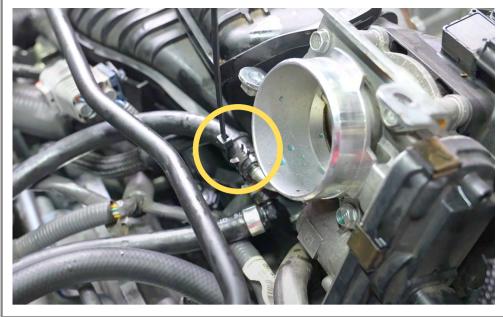
Zip-tie the AOS drain and coolant hoses together close to the AOS unit.

Ensure that the AOS Drain Hose is sloped downwards to prevent oil from pooling.

Trim excess zip-tie.







Zip-tie the AOS coolant hoses together next to the throttle body.

Trim excess Zip-tie.

Step 36



Prepare 55.5" AOS Vent Hose.

Install the 45° quick fitting hose end onto the remaining side port of the AOS unit.



Step 36 pt.2 Route the AOS Vent Hose along the factory A/C line.



Step 36 pt. 3



Route the hose underneath the factory A/C line as shown and connect the fitting onto the factory vent port.

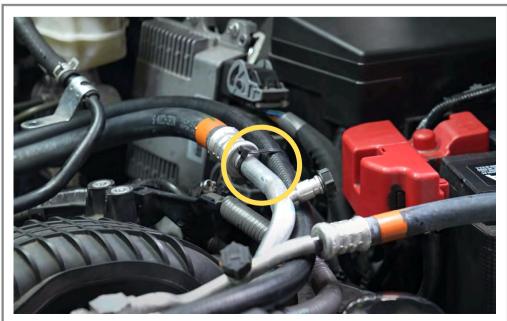
Ensure that the spring lock is engaged and properly seated.



Zip-tie the AOS hose to the A/C line as shown.

Trim excess Zip-tie.





Step 37 pt. 2 Zip-tie the AOS hose to the A/C line as shown.

Trim excess Zip-tie.



Prepare the OEM PCV valve and the other provided PCV adapter fitting.

Apply thread sealant to the OEM PCV valve.





Step 39 Thread the PCV valve onto the PCV adapter fitting.

Step 40

Tighten the PCV valve onto the adapter fitting with a 27mm socket and 19mm wrench.

Tighten until snug.





Install the PCV valve onto the factory intake manifold hose.

Resecure the hose clamp to the valve.

Step 42

Prepare the 20" AOS Intake Manifold Hose. Install the 90° hose end onto the side facing top port of the AOS.

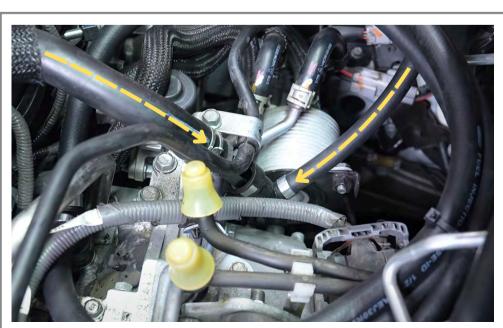
Route the hose towards the rear of the vehicle as shown.



Step 43

Route the factory intake manifold hose underneath the hardline as shown.

Install the 90° hose end onto the PCV adapter fitting.







Prepare the 32" AOS Turbo Inlet Hose.

Route the 45° hose end down in front of the motor, towards the turbo inlet.



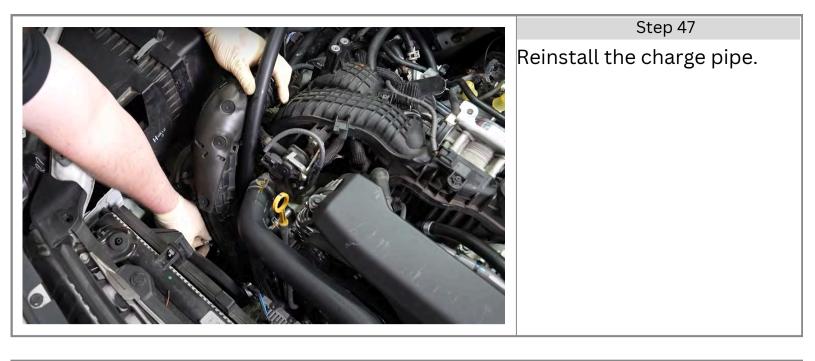
Step 45 Install the 45° hose end onto the Turbo Inlet Adapter.



Step 46

Install the opposing 90° hose end onto the remaining top port of the AOS.







Reinstall the Intercooler and intercooler brackets.

Step 49

Install the provided P clamp onto the AOS Turbo Inlet Hose.

Bolt the P clamp the the passenger side intercooler bracket.



Step 50
Reinstall the throttle body bolts.
Step 51
Reinstall the intake snorkel.



Step 51 Start the car and let vehicle idle until operating temperature.

Check for any leaks, and top off coolant if level is low.



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