

# IAG Air Oil Separator

## For 2021.5+ 2.3L Broncos





## IAG-ENG-F7902 IAG Air Oil Separator For 2021.5+ 2.3L Bronco

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

Installation video can be found on our website.



**1** AOS unit

**2** AOS mount bracket

**3** (x4) AOS mount bolts

**4** Zipties

**5** Intake Manifold Hose

**6** 20" Valve Cover Hose

**7** 36" Intake Pipe Hose

**8** Coolant Outlet Hose

**9** Coolant Inlet Hose

**10** (x2) 10mm Nuts  
10mm Bolt



**Tools needed:** 10mm wrench, 10mm socket/ratchet, 5mm Allen wrench, trim pry tool, cutting pliers, and small pinch off pliers



Confirm production  
date. ↓

FORD MOTOR CO.	DATE: 08/21
WR: 1402 KG (3090 LB)	REAR GAW
5/70R16 111T	TIRES WITH 29
x7.0J	RIMS AT 16
kPa/ 35 PSI COLD	AT 240
VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE	

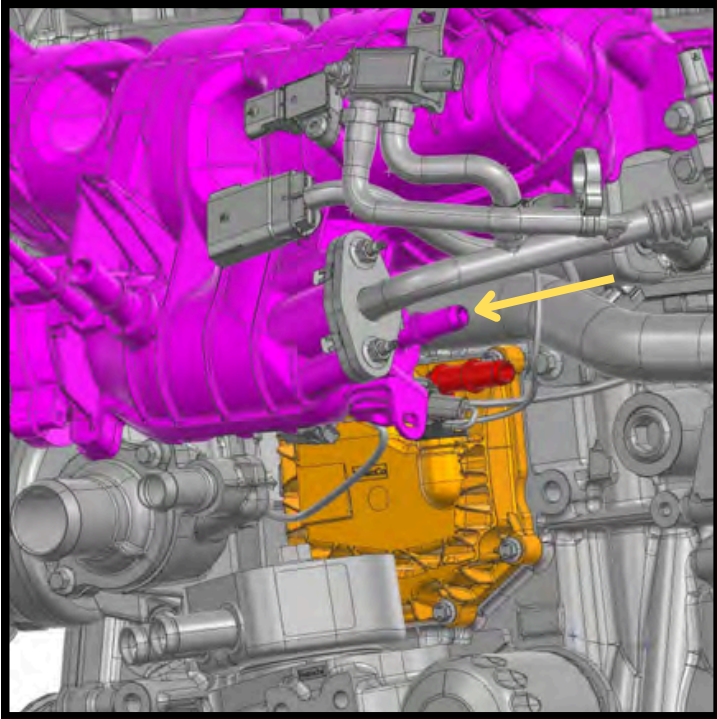
Please check the production date of your vehicle to confirm the correct fitment of the kit. This can be found by checking the vin plate in the drivers door well.

- For vehicles built after 11/17/2021 (2021.5), no additional parts are needed. Follow the instructions below.
- For vehicles built between 05/03/2021 and 11/17/2021, an additional hose kit (IAG-HSE-F7902) is required. Please refer to the 2021 installation instructions if your vehicle falls within this production date.

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](mailto:support@iagperformance.com) for help.

## 2021 Bronco 2.3

Early year Broncos have the PCV fitting located on the bottom of the intake manifold.

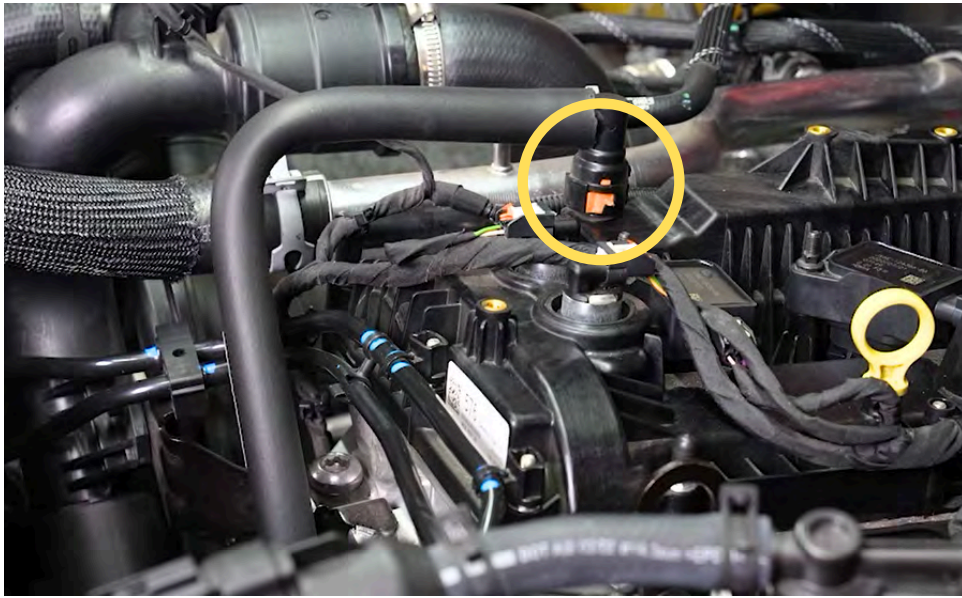


## 2021.5+ Bronco 2.3

New year Broncos have the PCV fitting located on the top of the intake manifold.







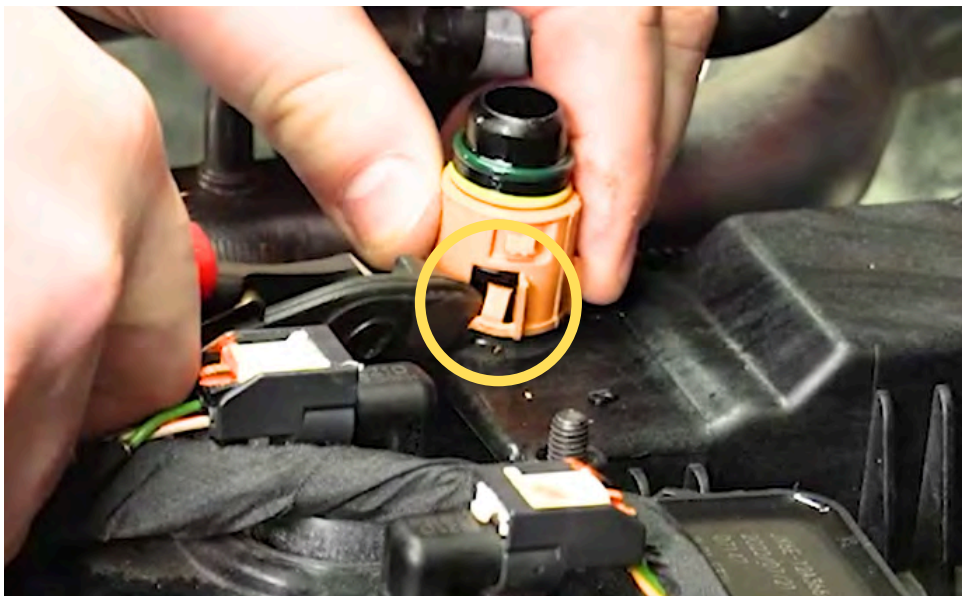
### Step 1

Remove the hose fitting from the valve cover.  
Using cutting pliers, cut the fitting on either side to disengage the anti tamper lock.



### Step 1 pt. 2

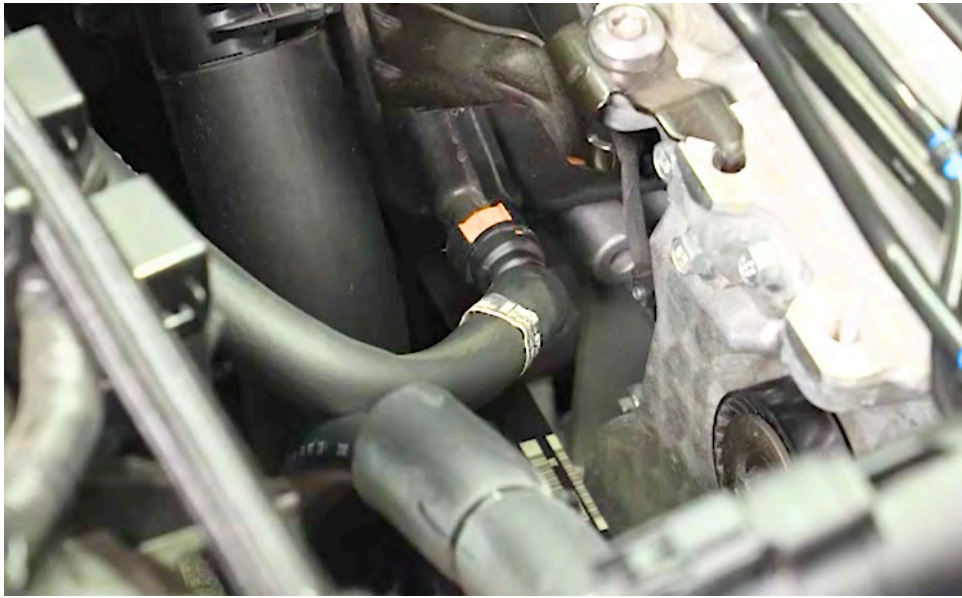
Cut as illustrated.



### Step 2

Remove the inner lock.  
Using cutting pliers, cut the three tabs off the inner lock.  
Discard the lock and O rings.





### Step 3

Following the same process, Remove the opposing end of the hose from the intake pipe.

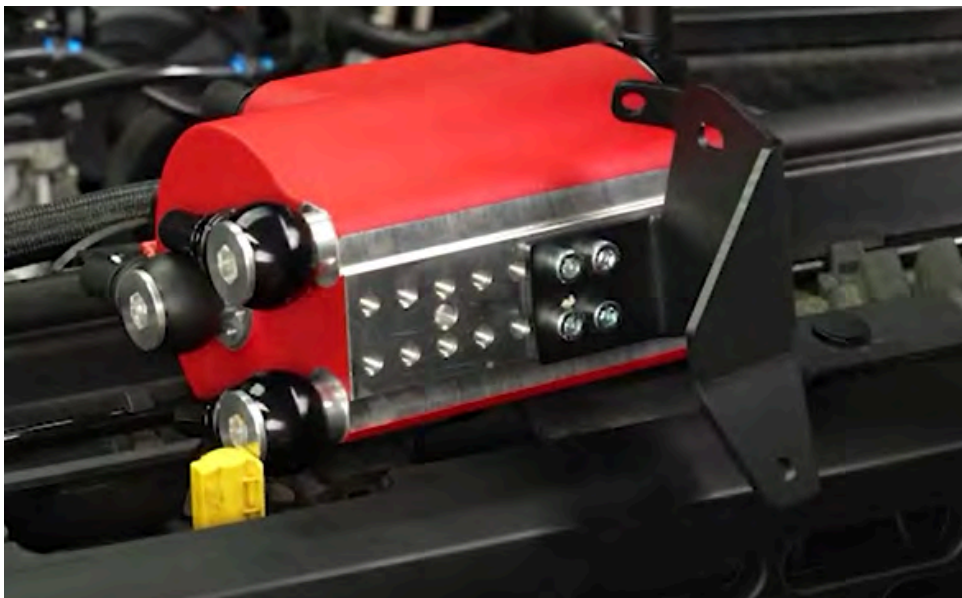
Discard the factory hose.



### Step 4

Following the same process, remove the inner lock from the intake pipe.

Discard the lock and O rings.



### Step 5

Prepare the AOS unit.  
Using provided bolts, attach the AOS bracket to the AOS. leave 5 holes open towards the bottom as shown.





#### Step 6

Using a pry tool, remove the ground cable fastener from the firewall.



#### Step 7

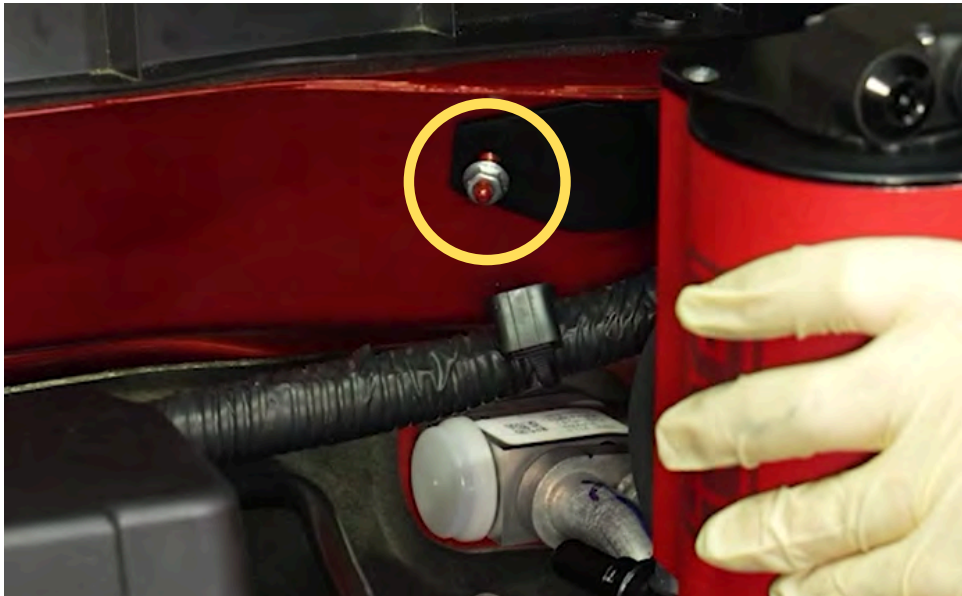
Using a pry tool, remove the wiring harness fastener from the firewall.



#### Step 8

Position the AOS onto the firewall as shown. Place AOS bracket onto stud. Route the wiring harness and ground cable underneath the AOS bracket.





### Step 9

Install the provided 10mm nut onto the firewall stud. Do not tighten.

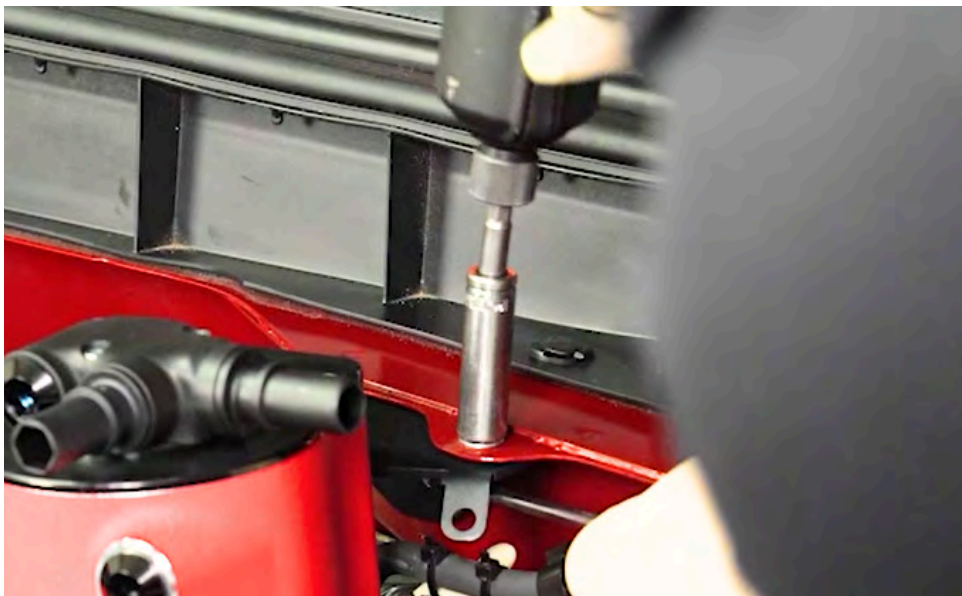
**10**



### Step 10

Install the provided 10mm bolt through the top of the AOS bracket, hand tighten the provided 10mm nut to the bottom of the bolt.

**10**



### Step 11

Tighten the AOS nut and bolt.





### Step 12

Reinstall the ground cable fastener to the AOS bracket.



### Step 13

Tighten the AOS nut.



### Step 14

Reinstall the wiring harness fastener to the stud.



### Step 15

Prepare the coolant inlet hose.  
Apply a small amount of lube to the fitting.



### Step 15 pt. 2

Rotate the AOS coolant fitting towards the rear.  
Install the coolant inlet hose on driver side AOS coolant fitting.

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



### Step 16

Prepare the coolant outlet hose.  
Apply a small amount of lube to the fittings.



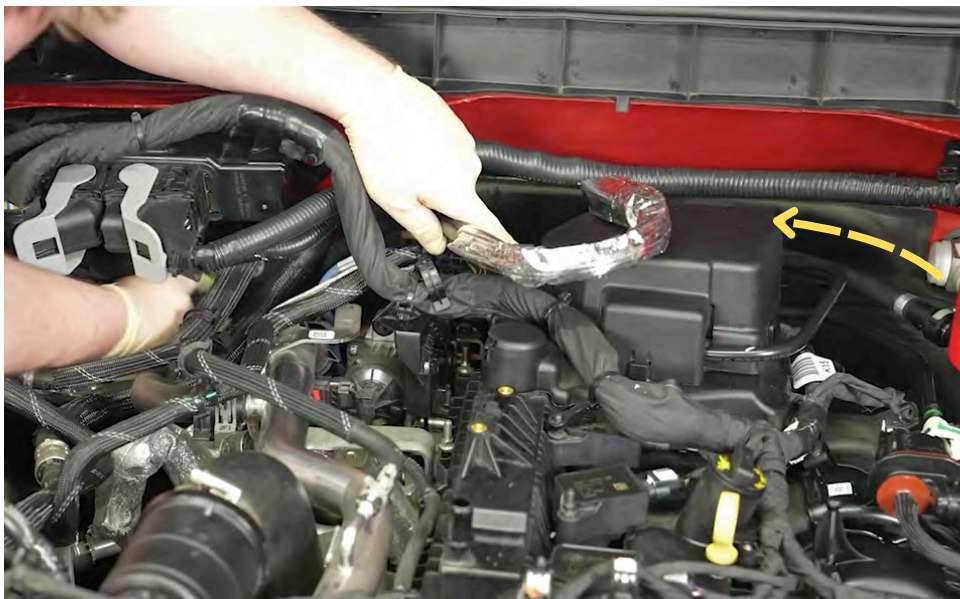




### Step 16 pt.2

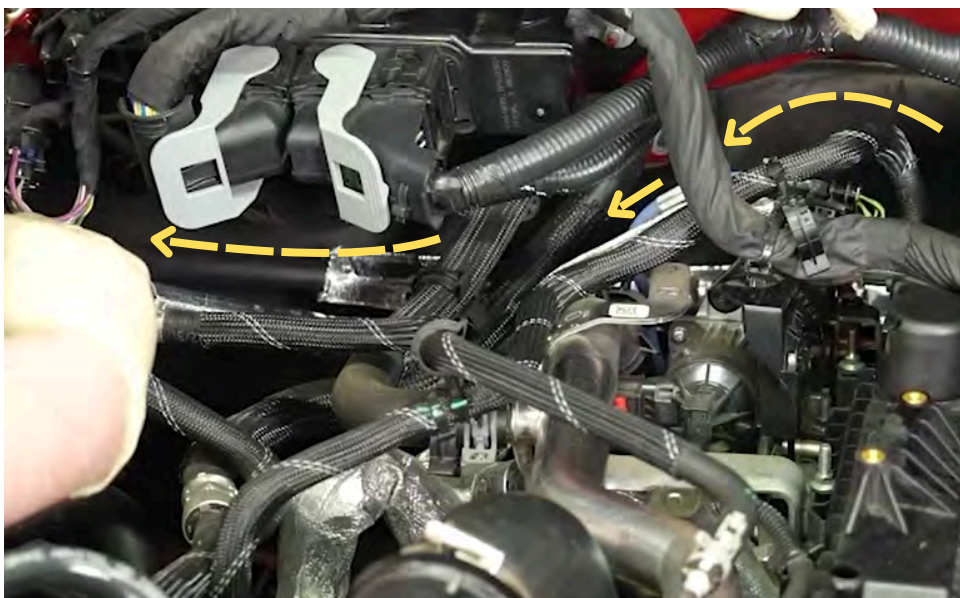
Rotate the AOS coolant fitting towards the rear. Install the coolant outlet hose on passenger side AOS coolant fitting.

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



### Step 17

Route both AOS coolant hoses behind motor.



### Step 18

Route the AOS coolant hoses underneath the factory heater hoses.





### Step 19

Using pinch off pliers, apply pliers to upper coolant reservoir hose.



### Step 20

Disconnect the factory upper coolant hose from the coolant reservoir.



### Step 21

Connect the AOS coolant hoses to the coolant reservoir, and the factory coolant hose.



### Step 21 pt.2

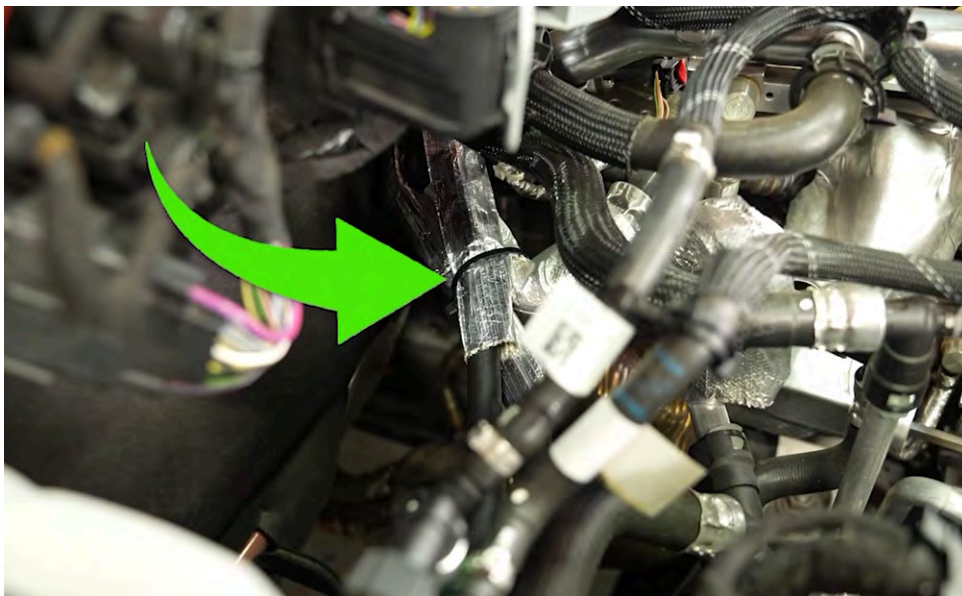
Remove the coolant pinch off pliers.



### Step 22

Zip tie the AOS coolant hoses together.

Trim excess zip tie.



### Step 23

Zip tie the AOS coolant hoses to the factory heater hose.

Trim excess zip tie.





#### Step 24

Zip tie the AOS coolant hoses to the factory EVAP line.

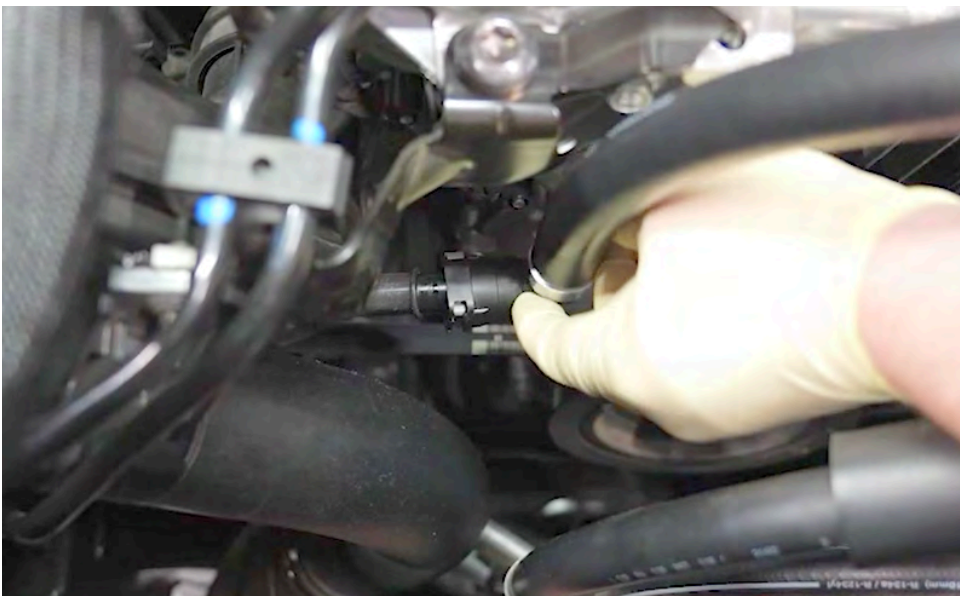
Trim excess zip tie.



#### Step 25

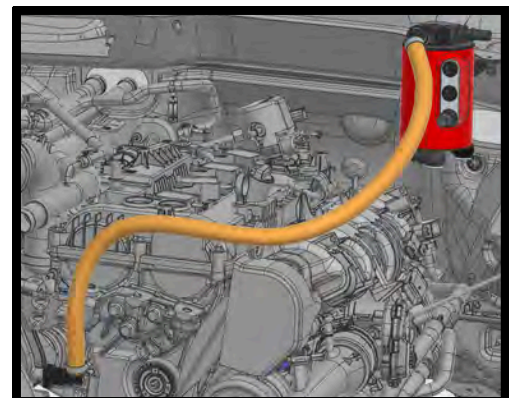
Prepare the 36" intake pipe hose.

Apply a small amount of lube to the end fittings.



#### Step 25 pt.2

Install the 90° end to the intake pipe.

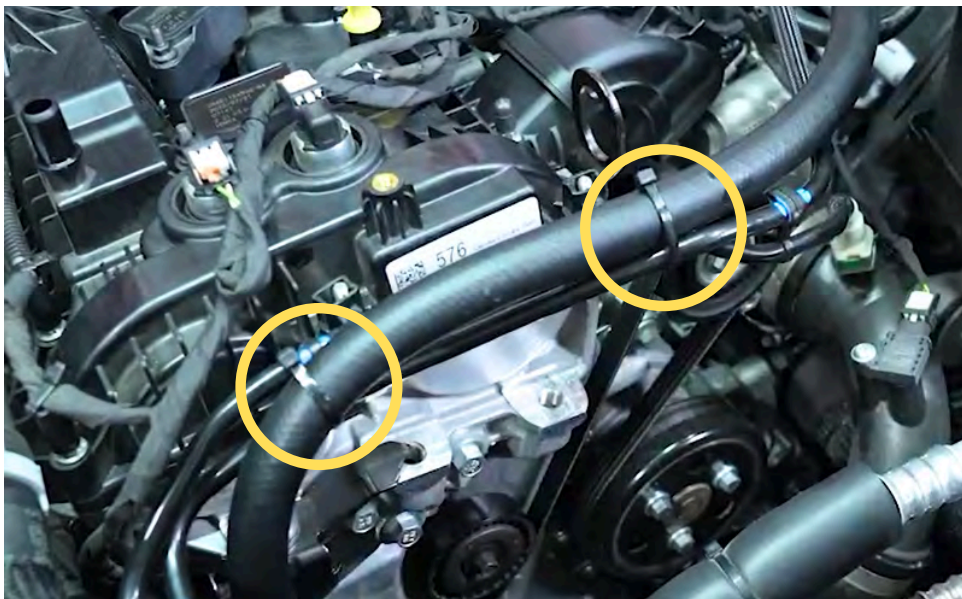






### Step 26

Install the opposing 45° end to the front facing port on top of the AOS.



### Step 27

Zip tie the AOS hose to the factory lines as shown.

Trim excess zip tie.



### Step 28

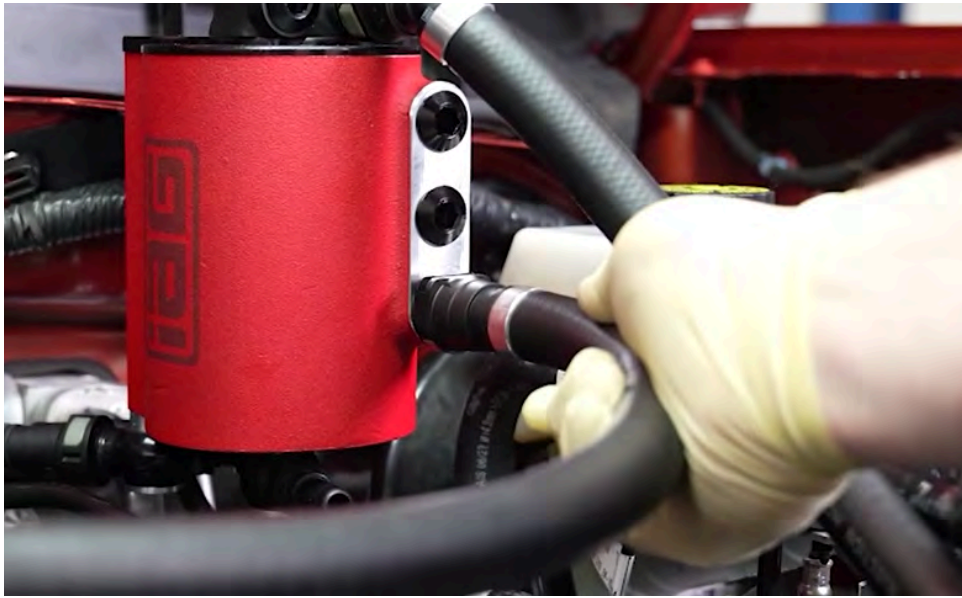
Prepare the 20" valve cover hose.

Apply a small amount of lube to the end fittings.

Install the 90° end to the valve cover.

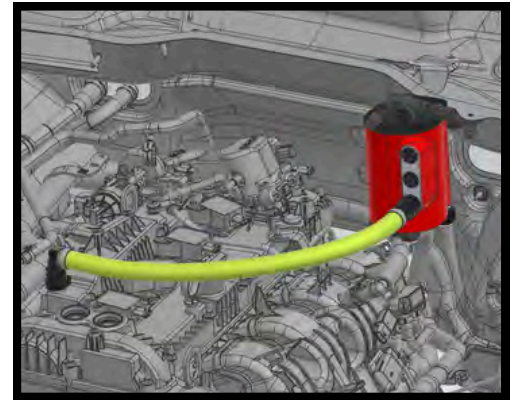






### Step 29

Install the opposing end onto the front facing port of the AOS.



### Step 30

Disconnect the factory PCV line from the intake manifold.



### Step 31

Route the factory PCV line up between the EVAP hose and connector.





### Step 31 pt.2

By hand, rotate the fitting of the factory line towards the AOS.

The fitting should be able to rotate inside of the hose with minimal force.



### Step 32

Connect the factory line to the AOS drain fitting on the bottom center of the AOS.



### Step 33

Prepare the intake manifold hose.

Apply a small amount of lube to the end fittings.

Connect the straight hose end to the port on the intake manifold.

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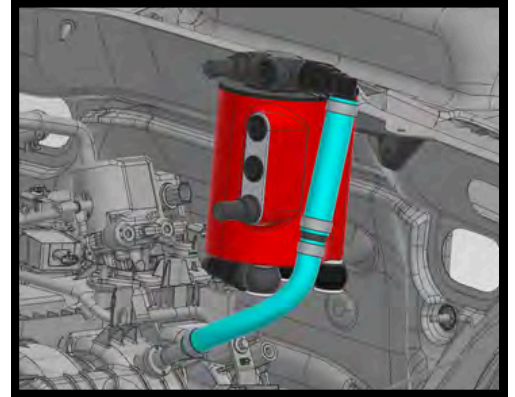






### Step 33 pt. 2

Connect the opposing 90° end to the side facing port on top of the AOS.



### Step 34

Remove the hood pad.

Using a trim tool, remove the 13 clips that hold the factory hood pad in place.



### Step 35

Install the provided hood pad.



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