



# GrimmSpeed Air/Oil Separator

## Installation Instructions

### Subaru NA Application



All GrimmSpeed products are intended for Off-Road use only. Park your vehicle on a level surface. Fully engage the parking brake and put wheel stops on the front and rear wheels to keep the vehicle from rolling.

**Warning (read before installing):**

Before moving forward with the setups outlined below, insure that you have the experience to properly modify your car. If not, please consult a professional. Without a proper install you could possibly damage your engine. Under no circumstances is the GrimmSpeed Air/Oil Separator to be used in any applications where failure of the AOS to operate as intended could jeopardize the safety of the operator or any other person or property.

**NOTE:** Our recommended method of installation retains the factory PCV valve.

**Contents:**

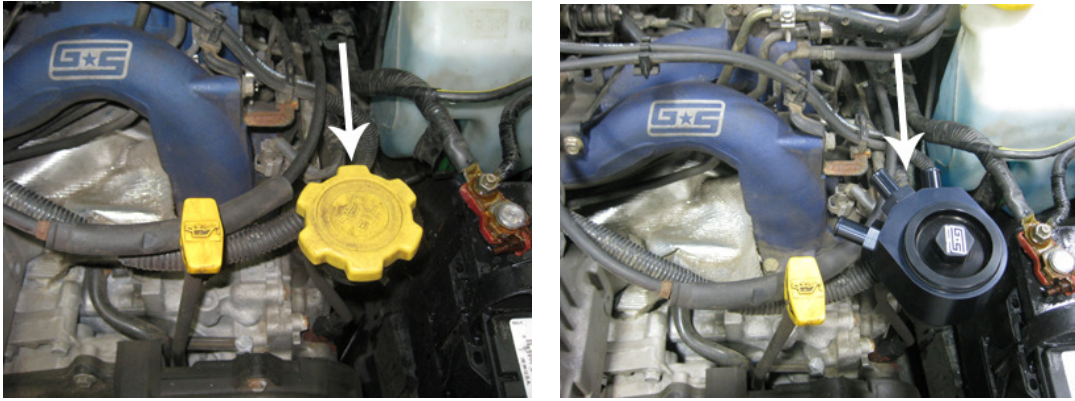
- (1) AOS unit
- (3) AOS Hose Fittings
- (1) 3/4" to 3/4" to 1/2" Tee Hose Connector
- (1) 1/2" to 1/2" to 1/2" Tee Hose Connector
- (1) 1/2" Cap
- (1) 5/8" Cap
- (1) 8.5ft of 1/2" Fuel Hose
- (8) Zip-ties
- (1) 90 Degree Elbow
- (1) 2" section of 3/4" Hose

## B. Installation

1. Screw AOS Hose Fittings into AOS Body. A dash of motor oil on the hose fitting o-rings is recommended.



2. Remove Oil Cap and loosely screw AOS into oil fill tube. Ultimately you want the AOS to point towards the 11 o'clock position.



3. Disconnect (2) head breather hoses that go to intake.

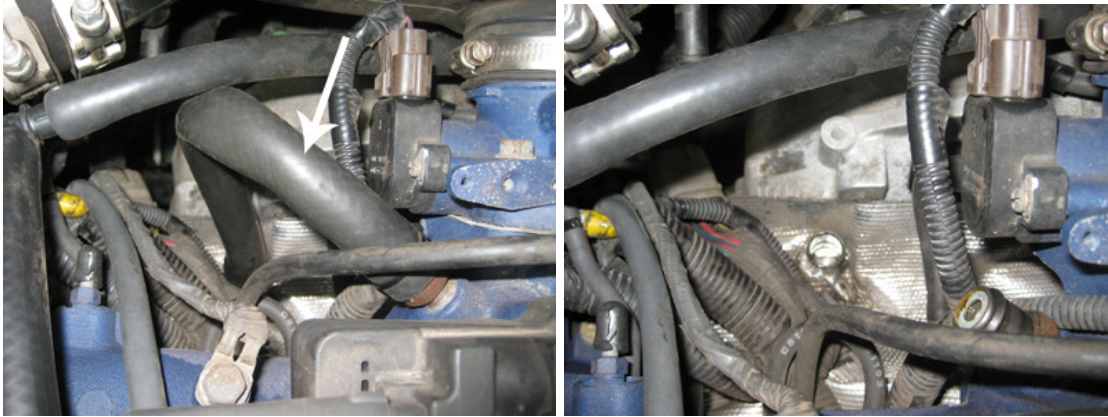


4. Using supplied Tee, Tee together the 2 disconnected breather hoses from step 3 and place on Tee. Now place supplied 1/2" hose on remaining open spot on Tee. Bring 1/2" hose to AOS and cut to length. Connect 1/2" hose to one of the bottom ports on the AOS. **NOTE:** On some models the head breather lines may not be long enough to Tee together, if this is the case, you will want to completely replace the oem breather lines with supplied 1/2" hose and then Tee those new lines together.

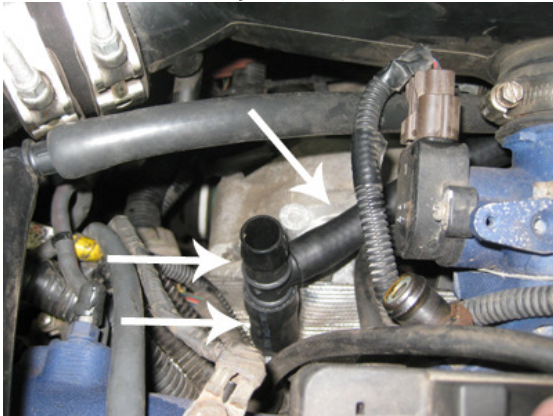


Steps 5-7 are for N/A Subarus from '93-'01 only. '02+ skip to step 8.

5. Remove OEM PCV hose from crankcase and intake manifold.



6. Using supplied 3/4" hose, put ~2" piece of 3/4" hose onto crankcase hose fitting. Then install 3/4" to 3/4" to 1/2" Tee into the 3/4" hose. On 1/2" arm of the Tee, install supplied 1/2" hose. Bring this 1/2" hose to the AOS and cut to length. For a neat install, route this 1/2" hose along the block (under torque box) over to the AOS. Push 1/2" hose on one of the bottom ports of AOS.



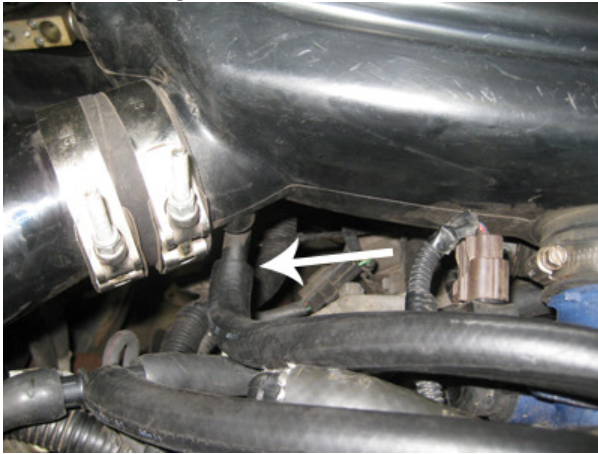
7. Now we will be connecting the final arm on the Tee in step 6 to the PCV Valve on the intake manifold. Cut a 5" section out of the middle of your OEM PCV hose that you removed in step 5. You must remove the middle section of this hose because this hose is a formed reduction hose. After you cut this hose, place the bigger ID section that you cut down onto the final arm of the Tee. Place supplied 90° Elbow into this hose, then place remaining smaller ID oem pcv hose on the the 90° Elbow and to the PCV Valve.





Step 8 is for '02+ Subaru only. 93-01 skip to step 9

8. Locate OEM crankcase Tee. Remove oem hose that goes from top of this Tee to your intake. Using supplied ½” hose, connect top of Tee to one of the bottom ports on the AOS. You will have to cut the ½” hose to length. Using supplied ½” cap, cap off open hose fitting on your intake where the oem hose use to be.
9. Using supplied ½” hose, connect ½” hose to either of the two open ½” hose fittings on the intake. Bring ½” hose over to AOS and cut to length. Push ½” hose onto top port of AOS.



10. Depending on model, you will either have one or two open hose fittings on your intake, cap these off with the supplied hose caps.
11. Place supplied zip-ties on all hose connections to ensure a good seal.

Finished view:



Please contact us if you have any questions during installation. 612.379.0000 or [sales@grimmspeed.com](mailto:sales@grimmspeed.com).  
AIM: GrimmSpd / MSN: [grimmspeed@hotmail.com](mailto:grimmspeed@hotmail.com)  
Thank you for your purchase!

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