



CP Dual Chamber (V3) Air/Oil Separator Kit 2008 - 2016 STI with Top Mount Intercooler

S0699 Install Instructions

Item #	Qty	Description
S0701	1	Air/Oil Separator Unit for 08-14 WRX / 08+ STi with TMIC
H0470	40"	3/8" PCV Hose: from port #1 to PCV Nipple on back of Intake Manifold
H0470	20"	3/8" PCV Hose: from port #2 to PCV Nipple on Top of Block
H0478	43"	1/2" Ventilation Hose: from port #3 to White & Grey Intake Plug before Turbo
H0478	14"	1/2" Ventilation Hose: from Black Elbow / Grey & White Connector to Port #4 *WRX only
H0478	5"	1/2" Ventilation Hose: from port #4 to 1/2" Straight Fitting (STI only)
H0478	7"	1/2" Ventilation Hose: Intercooler Crossover Pipe Hose Extension (17+ STI only; Opt. 15-16)
F0343	1	1/2" Straight Fitting
C0265	13	S/S Worm Clamps for Hoses
O0613	2	O-Rings for AOS bracket bolts
B2034	1	AOS Mounting Bolt *WRX only
W0921	3	Bolt spacing washers *WRX only
P0201	1	Firewall Plug for Sound Generator (STI Only)
P0202	1	Intake Plug for Sound Generator (STI Only)
Z0108	4	8" Zip Ties

[Click here for Install Video](#)





Tools Needed:



- Pliers
- Flathead Screwdriver*
- 10mm wrench and/or socket
- 12mm wrench and/or socket
- Ratchet

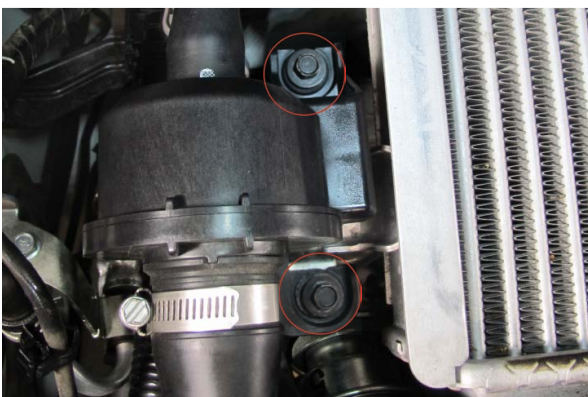
* (For locking clamps) Ideally use the special tool. If you have difficulty re-installing the locking clamps, we have supplied extra worm clamps.

(For flush clamps on newer models) Either cut or pull clamps off.

(For worm clamps) Use 1/4 drive socket/ratchet to tighten faster

Step by Step:

1. Disconnect Ground (-) on Battery
2. Disconnect Intake to Cabin Sound Generator (Only on 2015+ STi)
 - a. Remove 2 Clips with Pliers



b. Remove 2 bolts with 10mm Socket or Wrench

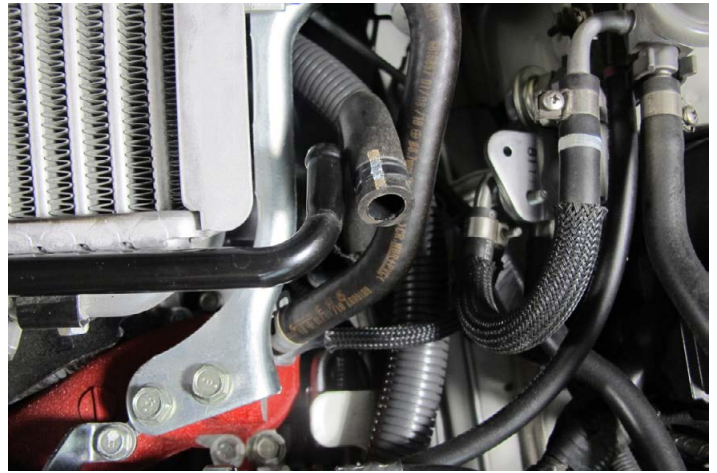
c. Plug firewall, and cap opening off intake with supplied plugs.

Do not re-use larger clamp with the larger intake plug. It will not secure the plug and it may fall out. Use supplied zip tie instead.

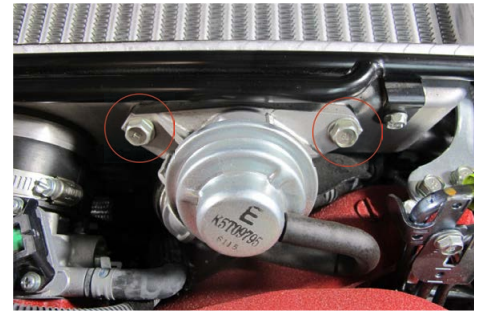
3. Remove Intercooler

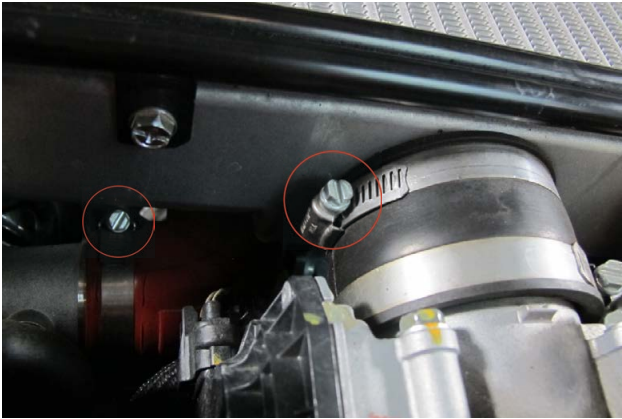
a. Remove Hoses from crossover pipe

- Use special tool or flathead screwdriver to release locking clamps **(for newer models with flush clamps, cut or pull clamps off)**
- pull hoses off pipes



b. Remove four 12mm bolts from each mounting bracket and recirculation valve





c. loosen screws on the rear clamp on throttle body hose, and on the turbo inlet clamp underneath



d. remove two 12mm bolts from the intercooler bracket connected to the intake manifold

e. Set aside bracket

f. Grab both sides of the intercooler, and wiggle it away from you until it pops out of the throttle body hose, then to the right to pop off of the turbo outlet

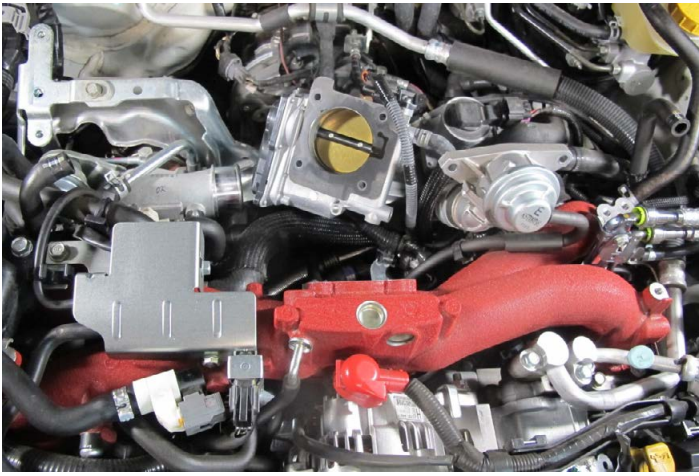


4. Remove throttle body from intake manifold

a. Loosen screw on the front clamp on throttle body hose. Pull off hose and set aside.



b. Remove four 10mm bolts from the back of the throttle body housing



c. Move throttle body out of the way

5. Attach Air/Oil Separator (mounting is tricky due to small working area)

a. On the US passenger side behind/underneath the intake manifold, remove 2 of the 12mm bolts that hold the fuel injector cover to the intake manifold

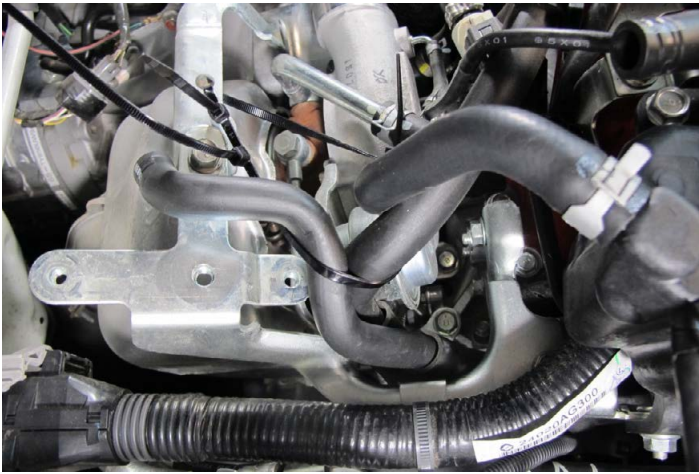
b. Replace those 2 bolts with the AOS bracket lined up to the appropriate openings, and use the supplied O-Rings to hold the bolts in place.

** TIP: If you are having trouble re-aligning the bolt holes, use a mirror to check that the fuel injector cover did not shift in the way. If so, have a friend pull the cover back so that the bolt holes are fully exposed, then re-install bolts to mount the AOS.*



- Insert bolts in to holes A & C





In order to make it easier to access these bolts, use zip ties (or other methods) to pull the hoses out of the way.

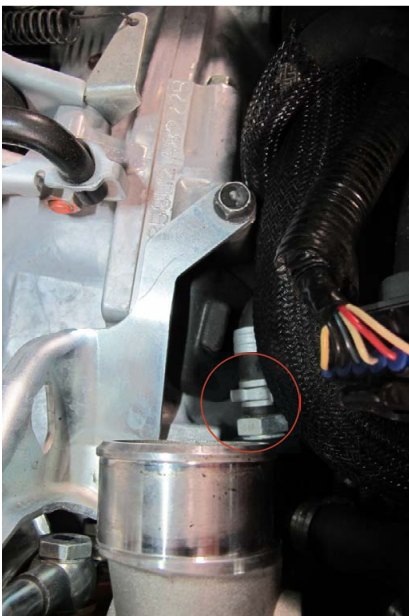
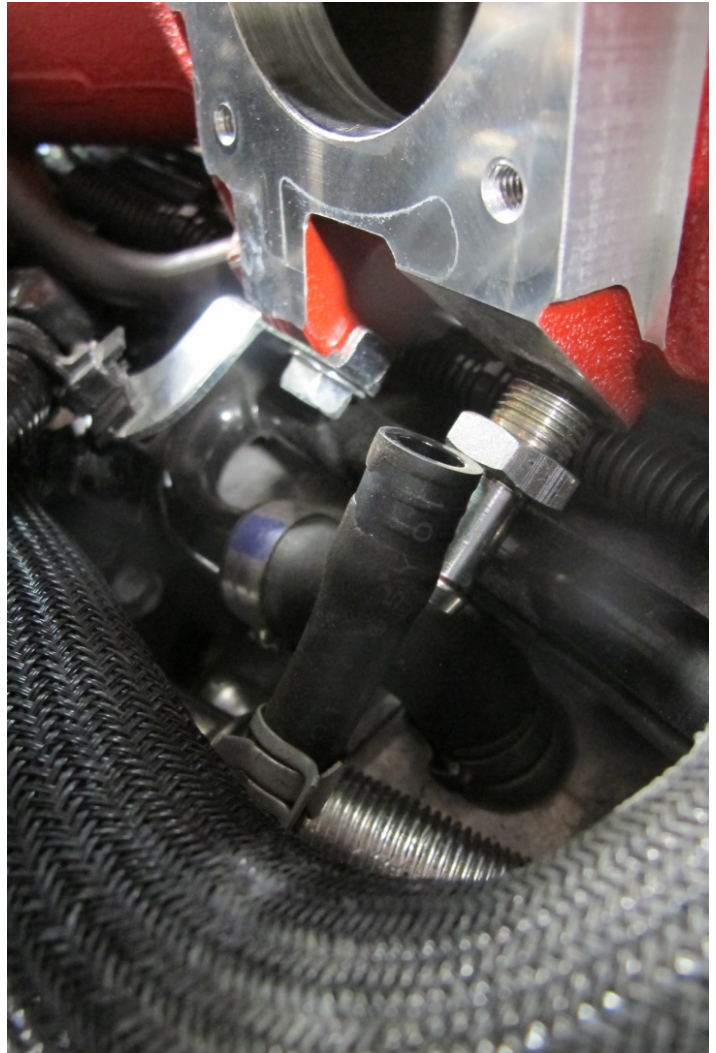
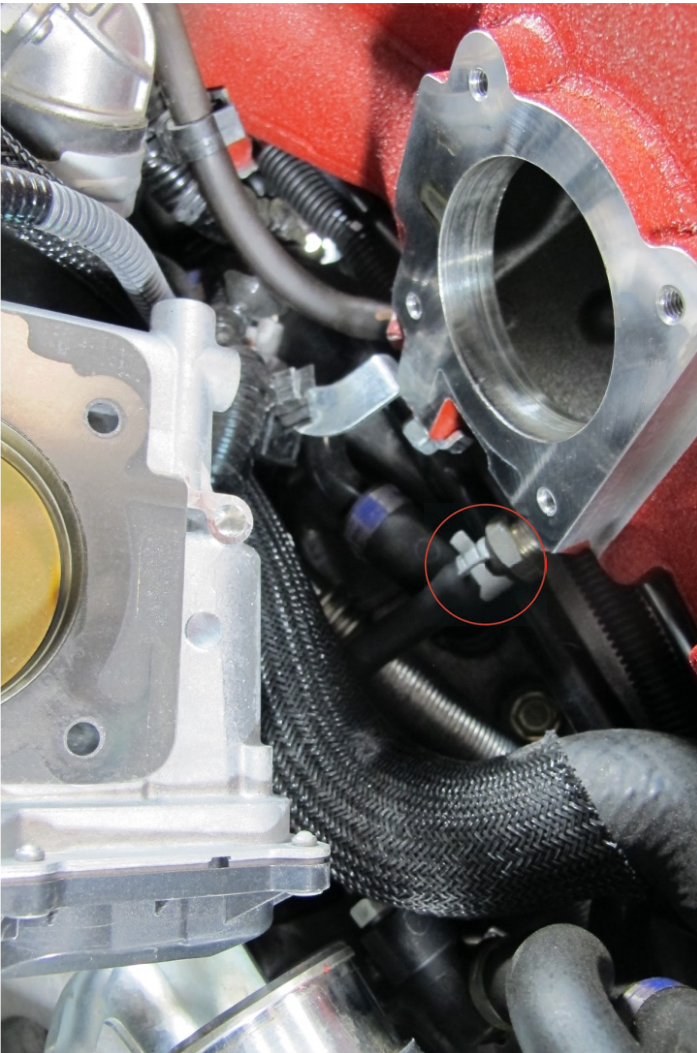


Pictured are the 2 bolts that are used for mounting the canister.



6. Remove PVC to intake manifold hose

- a. Squeeze clamp with pliers and move away from end of hose**



- b. repeat for other end of hose beneath turbo outlet**

- c. remove hose (does not get re-installed; either throw away or store)**

7. Attach supplied 40" 3/8" hose to nipple underneath throttle body

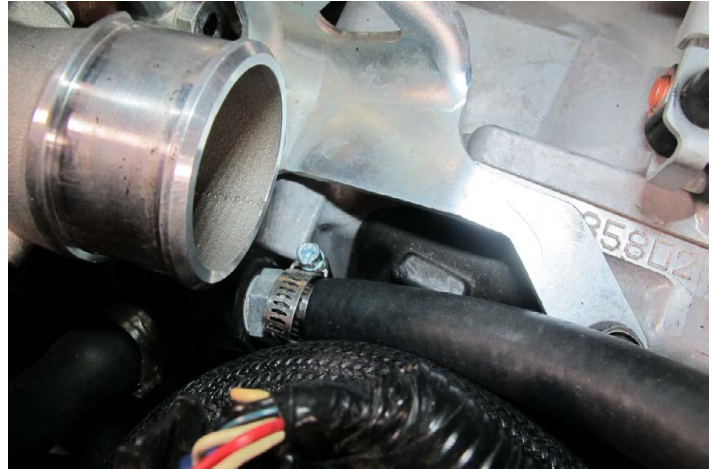
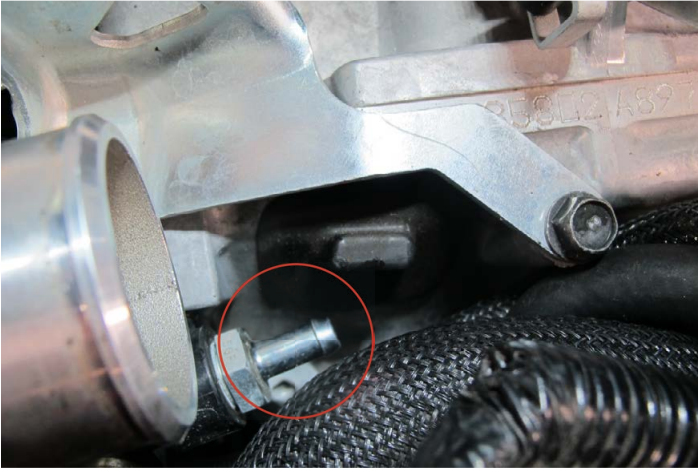


- a.** Slip worm clamp over hose, and push hose on to nipple until it butts up against flange
- b.** Tighten worm clamp until it cannot be pulled off by hand, but not so tight that it cuts the hose

8. Re-attach throttle body by tightening the four 10mm bolts
a. route 40" 3/8" hose as pictured



9. Attach supplied 20" 3/8" Hose to PCV nipple underneath turbo outlet



- a.** Slip worm clamp over hose, and push hose onto nipple until it butts up against flange
- b.** Tighten worm clamp until it cannot be pulled off by hand, but not so tight that it cuts the hose



- c.** route hose behind sensor as pictured, either before attaching to the nipple, or by removing and re-attaching the plug

10. Remove hose from white PCV connector by the turbo outlet

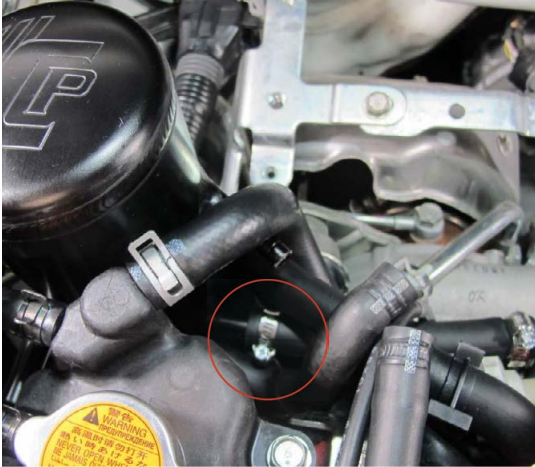


- a.** Use special tool or flathead screwdriver to release locking clamp
- b.** pull hose off white PCV connector, and either throw away or store locking clamp
- c.** replace locking clamp with supplied worm clamp
- d.** Attach this loose hose to the supplied black straight fitting with the worm clamp

- e.** Attach supplied 5" 1/2" hose to the other end of the straight fitting, slip over a worm clamp and tighten both clamps until they cannot be pulled off the fitting by hand, but not so tight that it cuts the hose



11. Attach the other end of the 5" hose to port #4 on the AOS



- a. Route 5" hose under black OE hose shown in picture
- b. Slip supplied worm clamp over 5" hose, and push hose on to port #4 on the AOS until it butts up against the can, trim if necessary
- c. Tighten worm clamp until it cannot be pulled off by hand, but not so tight that it cuts the hose
- d. **MAKE SURE THIS LINE RUNS DOWNHILL TO THE FITTING!** If necessary, trim any slack if the hose has a high point.

12. Attach the other end of the 20" 3/8" hose to port #2 on the AOS. **MAKE SURE THIS LINE RUNS DOWNHILL TO THE CONNECTOR!** If necessary, trim any slack if the hose has a high point.



13. Attach supplied 43" 1/2" hose to white PCV connector nipple



a. Slip worm clamp over hose, and push hose on to nipple until it butts up against sensor



b. Tighten worm clamp until it cannot be pulled off by hand, but not so tight that it cuts the hose

c. Route 40" 3/8" hose with 43" 1/2" hose together as pictured over the intake manifold and underneath coolant tank hoses / plug



14. Attach 40" 3/8" hose to port #1 on the AOS



- a. Slip worm clamp over hose, and push hose on to port until it butts up against the can, trim if necessary
- b. Tighten worm clamp until it cannot be pulled off by hand, but not so tight that it cuts the hose

15. Attach 43" 1/2" hose to port #3 on the AOS



- a. Slip worm clamp over hose, and push hose on to port until it butts up against the can, trim if necessary
- b. Tighten worm clamp until it cannot be pulled off by hand, but not so tight that it cuts the hose



16. Reinstall Intercooler

- a. Repeat steps 1 & 3 in reverse

Enjoy!

