

### S0699 Install Instructions

Item #	Qty	Description
S0701	1	Air/Oil Separator Unit for 08-14 WRX / 08+ STi with TMIC
H0470	40"	3/8" PVC Hose: from port #1 to back of intake manifold
H0470	20"	3/8" PVC Hose: from port #2 to PVC Valve
H0478	43"	1/2" Ventilation Hose: from port #3 to intake tube
H0478	17"	1/2" Ventilation Hose: from right valve cover vent hose extension <b>*WRX/plastic intake manifolds only</b>
H0478	13"	1/2" Ventilation Hose: from white valve to Port #4 <b>*WRX/plastic intake manifolds only</b>
H0478	5"	1/2" Ventilation Hose: from port #4 to 1/2" Straight Fitting ( <b>STi only</b> )
F0343	1	1/2" Straight Fitting
C0250	13	Hose Clamps
O0613	2	O-Rings for AOS bracket bolts
B2035	1	AOS Mounting Bolt <b>*WRX/plastic intake manifolds only</b>
W0921	3	Bolt spacing washers <b>*WRX/plastic intake manifolds only</b>
P0201	1	Firewall Plug for Sound Generator
P0202	1	Intake Plug for Sound Generator



## Tools Needed:

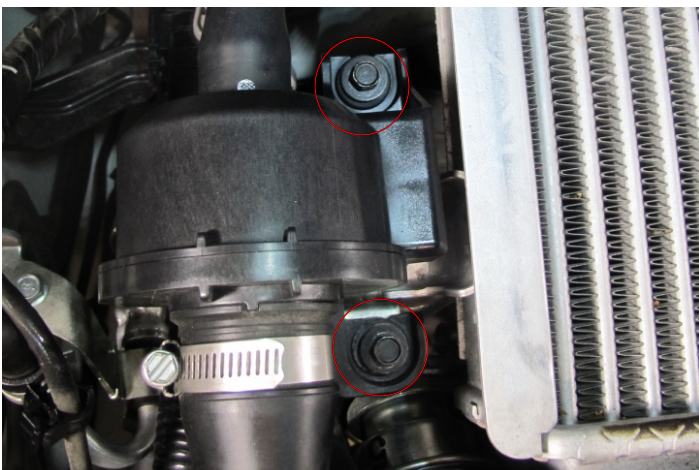


- Pliers
- Flathead Screwdriver\*
- 10mm wrench and/or socket
- 12mm wrench and/or socket
- Ratchet

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

### 3. Remove Intercooler

#### a. Remove Hoses from crossover pipe

- Use special tool or flathead screwdriver to release locking clamps
- 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

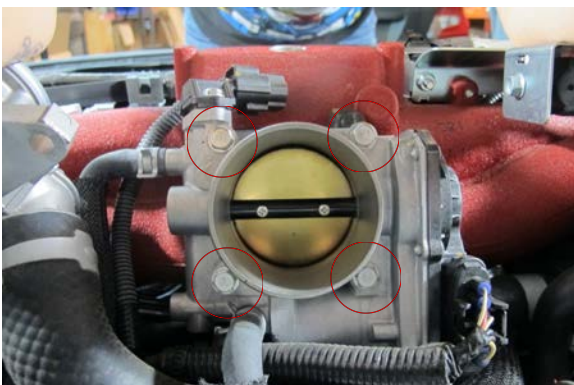
**e.** Set aside bracket

**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

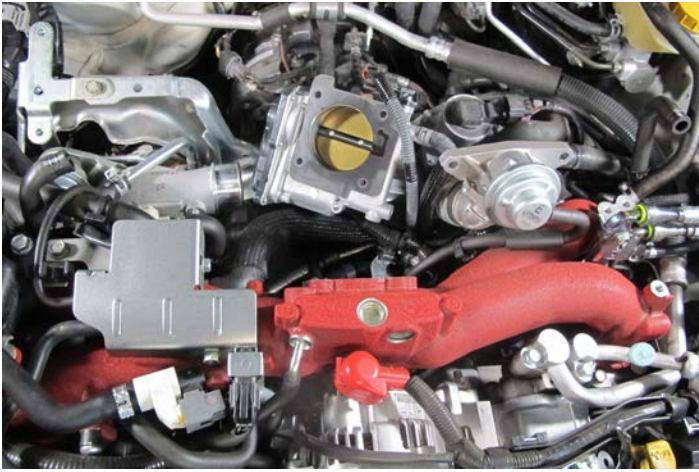
#### 4. Remove throttle body from intake manifold



**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

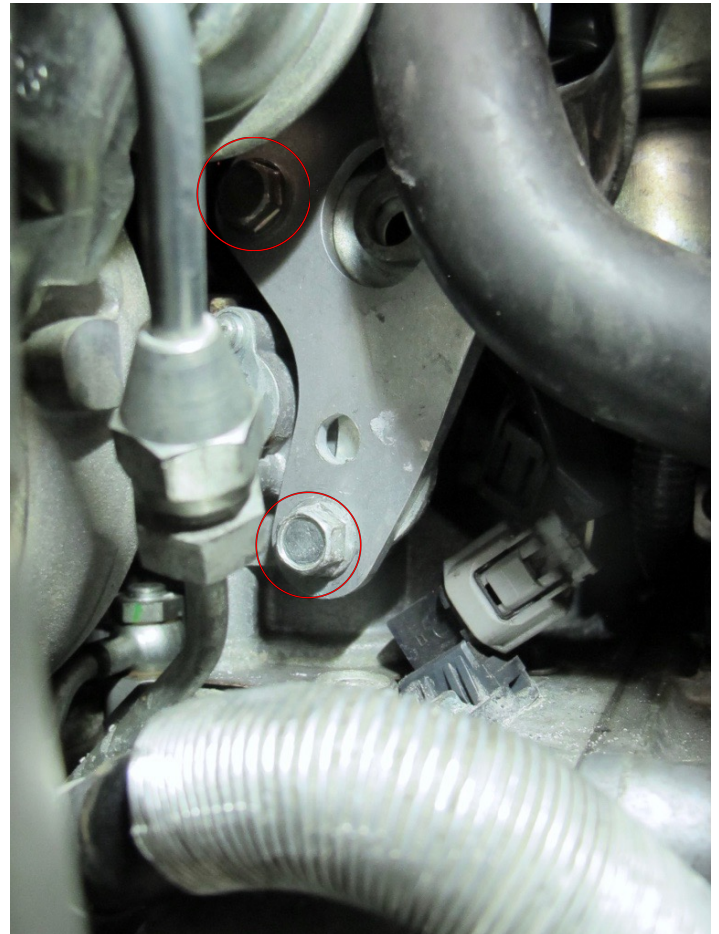
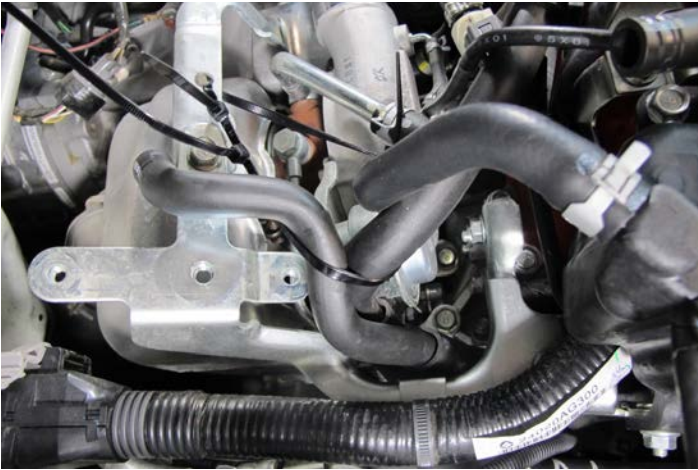
- a. On the US passenger side behind/underneath the intake manifold, remove 2 of the 12mm bolts that hold the fuel injector cover to the intake manifold
- b. Replace those 2 bolts with the AOS bracket lined up to the appropriate openings, and use the supplied O-Rings to hold the bolts in place. Use supplied washers to space the bottom bolt (only on WRX/plastic intake manifolds)



- on an STi (aluminum intake manifold): A & C
- on a WRX (plastic intake manifold): B & 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

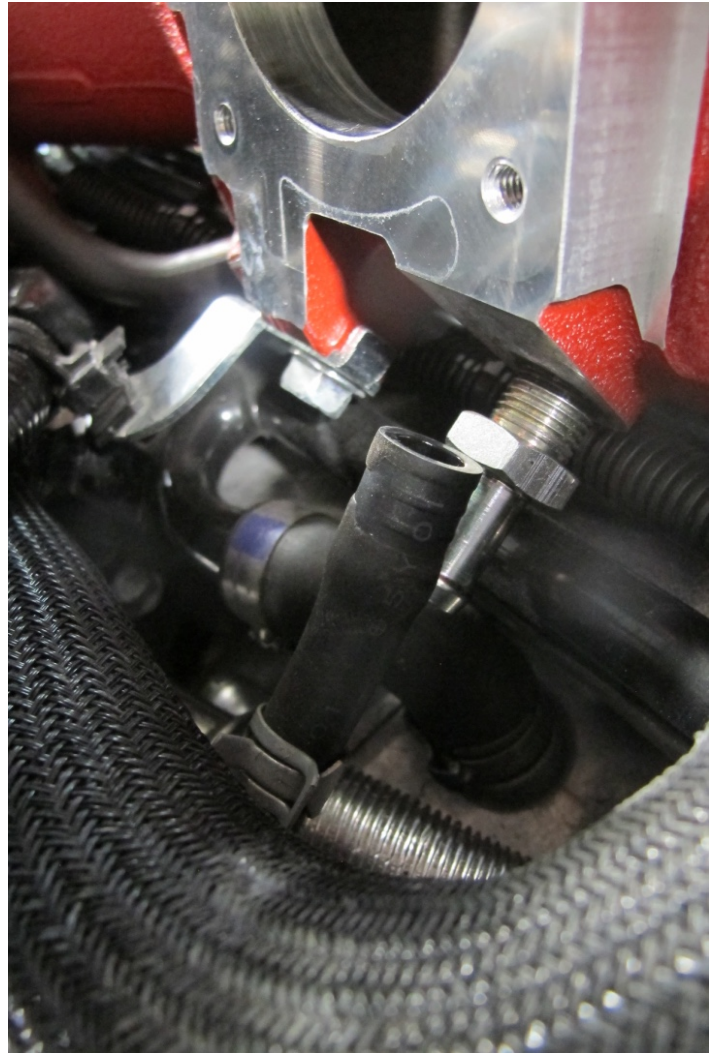
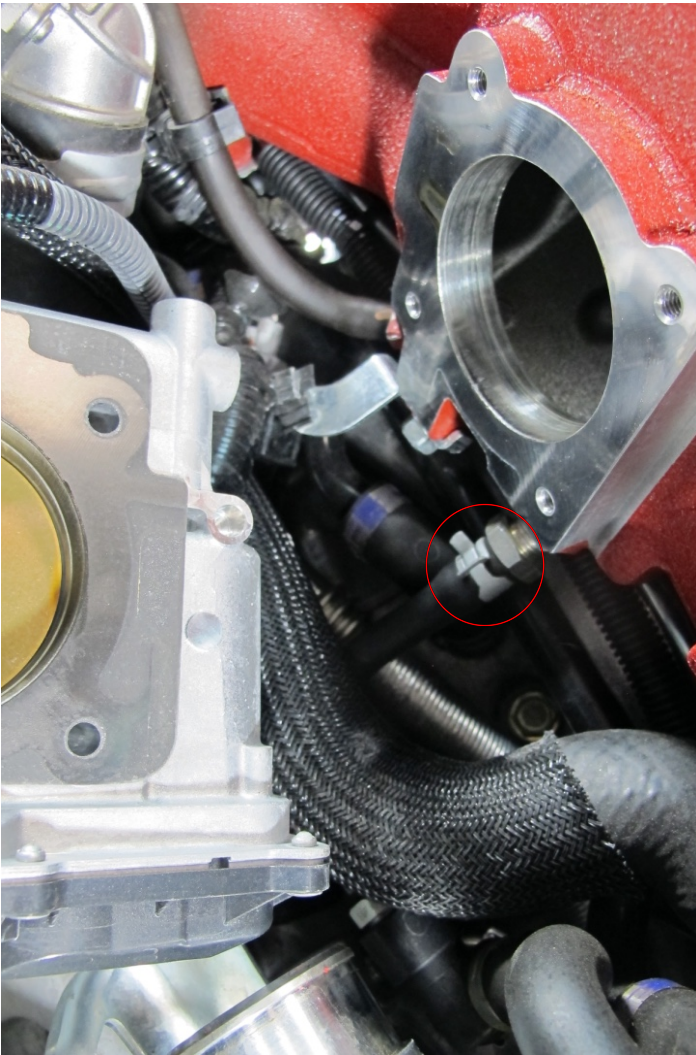


Pictured are the 2 bolts that need to be removed on an STi (aluminum intake manifold)



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

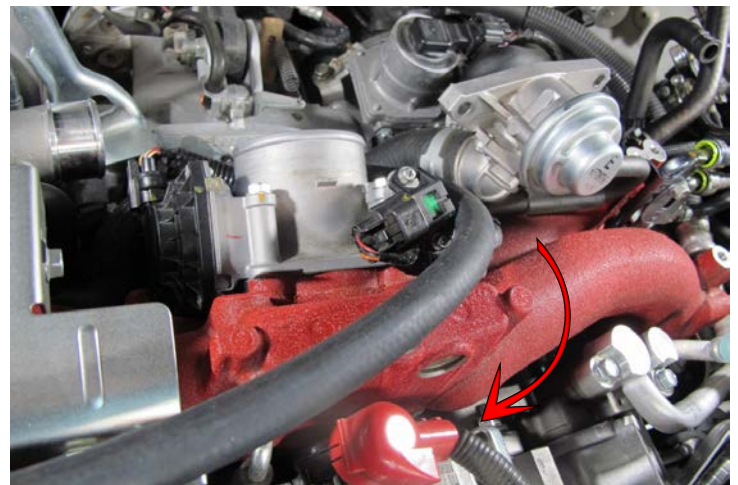
**c.** remove hose (does not get re-installed; either throw away or store)

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



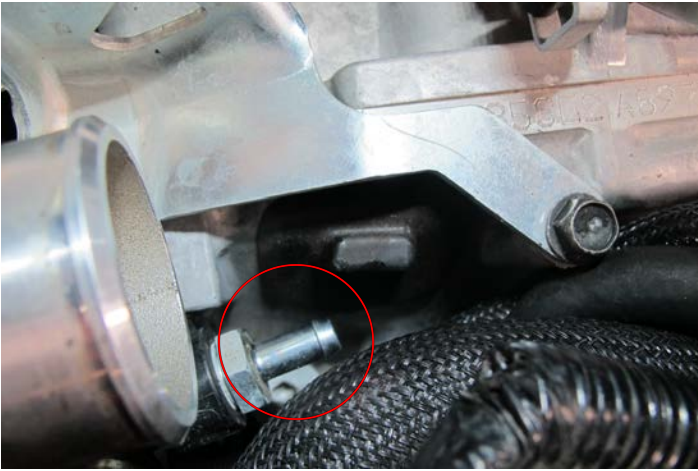
- a. Slip worm clamp over hose, and push hose on to nipple until it butts up against flange
- b. Tighten worm clamp until it cannot be pulled off by hand, but not so tight that it cuts the hose

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

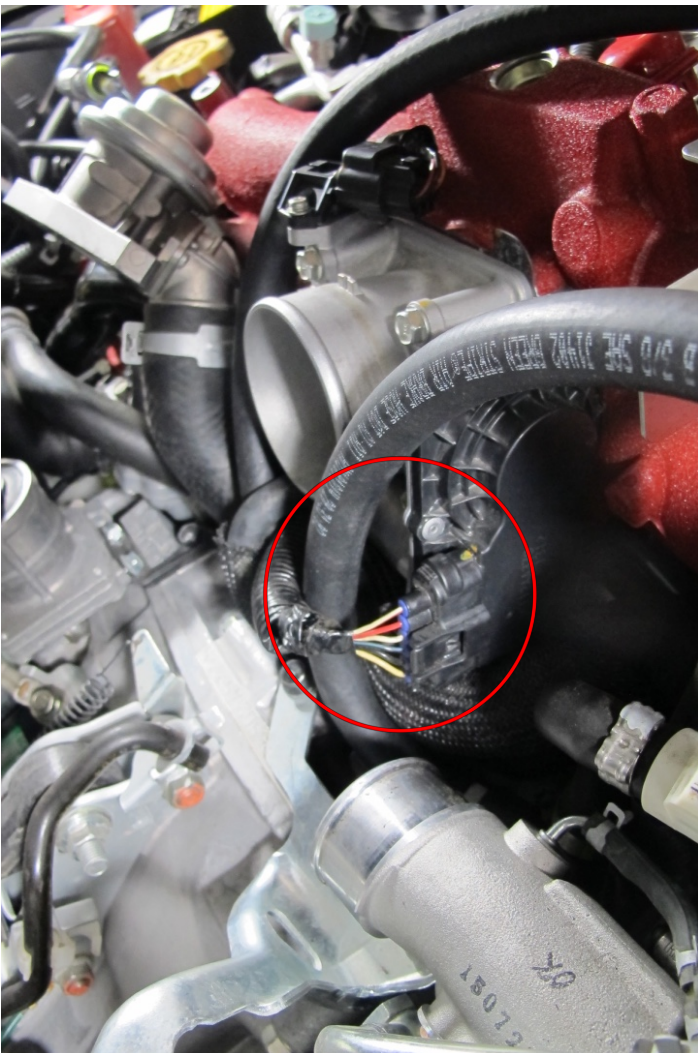




**9. Attach supplied 20" 3/8" Hose to PCV nipple underneath turbo outlet**



- 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 sensor by the turbo outlet**

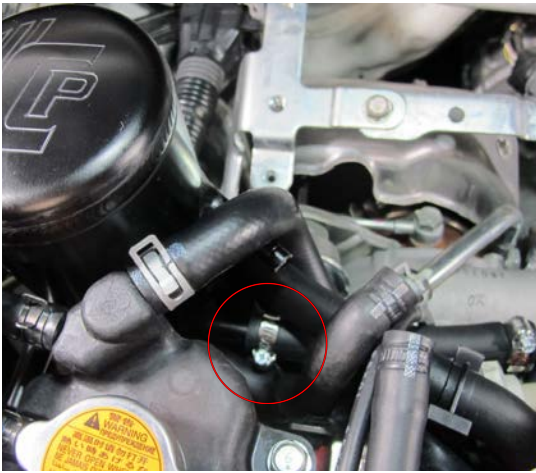


- a. Use special tool or flathead screwdriver to release locking clamp
- b. pull hose off white sensor, and either throw away or store locking clamp
- c. replace locking clamp with supplied worm clamp
- d. Attach this loose hose to the supplied black straight fitting with the worm clamp

- 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**

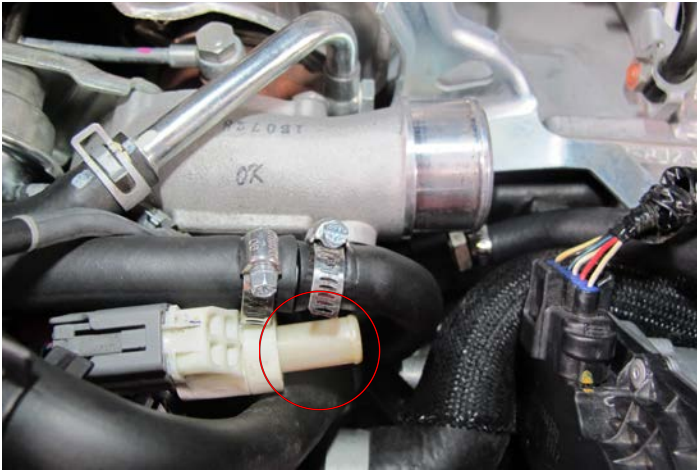


- a.** Route 5" hose under black OE hose shown in picture
- b.** Slip supplied worm clamp over 5" hose, and push hose on to port #4 on the AOS until it butts up against the can, trim if necessary
- c.** Tighten worm clamp until it cannot be pulled off by hand, but not so tight that it cuts the hose

**12. Attach the other end of the 20" 3/8" hose to port #2 on the AOS, trim if necessary**



**13. Attach supplied 43" 1/2" hose to white sensor 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!

