



## AAM Competition Q50/Q60 Tial Q 50mm BOV Kit



# INSTALLATION INSTRUCTIONS

*(DESIGNED FOR ONLINE USE AND COLOR PRINTING)*

**\*\*\*WARNING: PRODUCT(S) ARE DESIGNED FOR OFF-ROAD / COMPETITION USE ONLY\*\*\***

Read all directions before attempting installation. This product requires above average mechanical ability to install properly, professional installation recommended. Installation requires appropriate tools for proper installation of this kit. As with all mechanical projects, take appropriate precautions for your personal safety and for the proper care and treatment of the vehicle being serviced. AAM Competition, LLC offers no warranty and accepts no liability caused by improper installation, modification and/or use of this product. Installation may void factory's manufacturer's warranty. Contact AAM Competition LLC or an authorized Dealer with questions or problems regarding this product. When removing Stock/OEM parts read and follow the factory service manual for proper procedures. *Copyright AAM Competition, LLC 2016*



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**Tools Needed:**

- Ratchet
- Ratchet extensions
- Swivel sockets or swivel attachment (optional)
- Socket set (7mm, 8mm, 10mm, 12mm)
- Snap Ring Pliers
- Needle Nose Pliers
- Box Cutter or Scissors
- Lube (optional)

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**Included Parts:**

Description	Quantity
Tial Q 50mm BOV Kit & Hardware	2
AAMC Tial BOV Adapter Flange	2
AAMC Passenger Side BOV Silicone Coupler	1
AAMC Driver Side BOV Silicone Coupler	1
AAMC Silicone Y-Fitting	1
6mm Silicone Vacuum Hose	3 ft
4mm Silicone Vacuum Hose	4 ft
Automotive Vacuum Tee 1/8"x1/8"x1/4" Fitting	1
Worm Drive Clamp Size 24	2
Cable Ties	

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**WARNING: USE OF POWER TOOLS DURING INSTALLATION MAY CAUSE DAMAGE. WE RECOMMEND THE USE OF HAND TOOLS ONLY DURING INSTALLATION.**

**Note: "Left Side" and "Right Side" of vehicle is from the perspective of sitting in the driver seat of the vehicle and looking forward**

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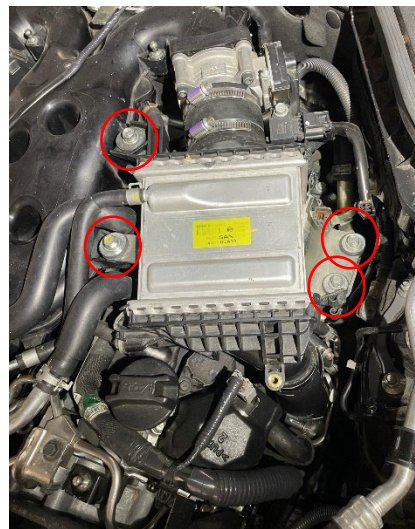
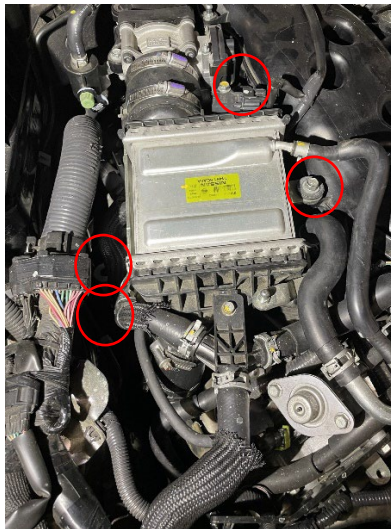


## Installation

1. Park the car, pop the hood, and disconnect the negative battery terminal.
2. Remove the engine cover by lightly pulling on edges and corners.

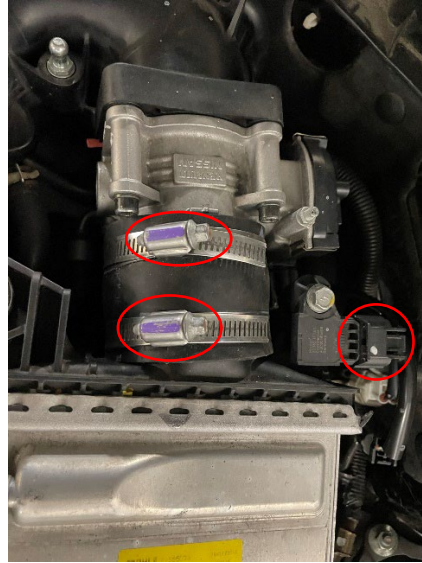


3. Remove the 8 x 12mm bolts holding the passenger and driver side intercoolers.

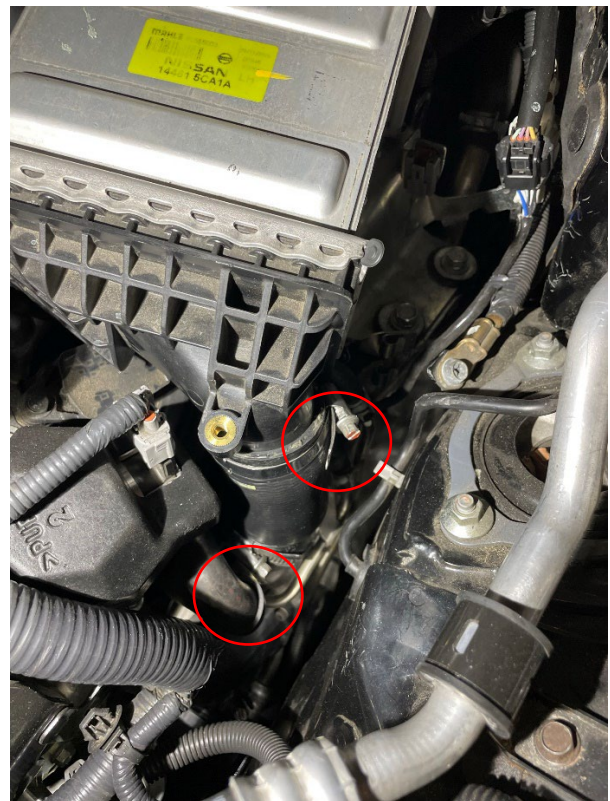




4. Use a 7mm socket to loosen the 4 worm gear clamps on the passenger and driver side throttle body couplers. Disconnect the intercooler map sensor.



5. Use a 7mm socket to loosen the 4 worm gear clamps on the passenger and driver side intercooler couplers, use ratchet extensions as needed.





6. Carefully pull the intercooler away from the throttle body to remove the throttle body coupler. Then carefully pull the intercooler up to remove the intercooler coupler. You may have to wiggle the intercoolers to get them loose.
7. Once the couplers have been removed, grab your new AAMC silicone throttle body couplers and transfer the worm gear clamps from the OEM couplers to the AAMC couplers. Leave the clamps loose on the couplers when installing.



8. Install the AAMC throttle body couplers, ensuring the clamps are loose to allow movement of the intercoolers when installing the new AAMC intercooler BOV couplers.







9. Grab your new AAMC silicone BOV intercooler couplers and transfer the worm gear clamps from the OEM intercooler couplers to the AAMC couplers as shown below. Leave the clamps loose on the couplers when installing. The shorter coupler is for the passenger side and the taller coupler is for the driver side. Orient the worm gear clamps as shown to facilitate installation.



10. Install the new AAMC BOV couplers as shown below. Orient the BOV port of the coupler towards the headlights of each respective side. Grab the supplied worm gear clamps and place them on the open port as shown, do not tighten any worm gear clamps to allow adjustability of the blow off valve final location.

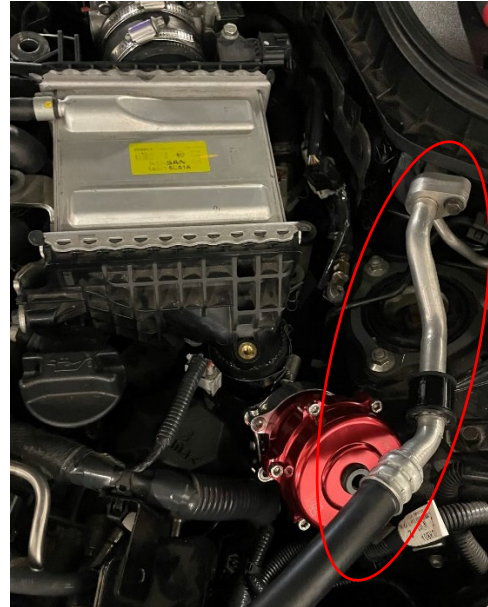




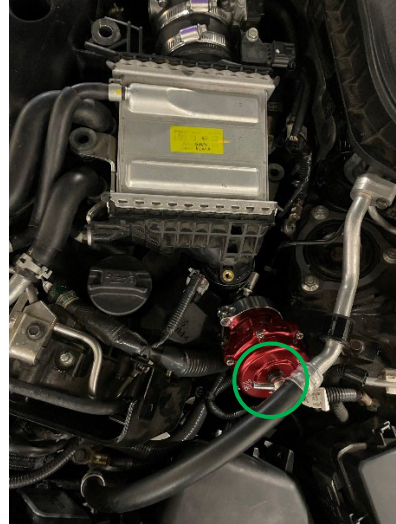
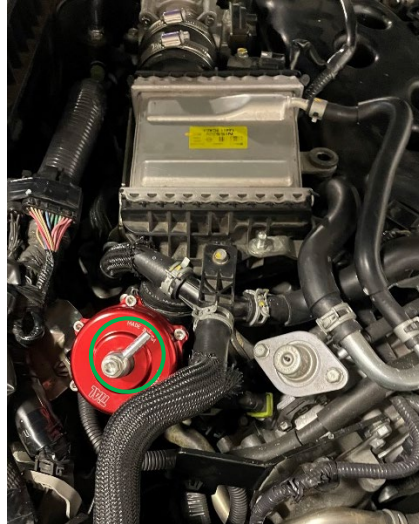
11. Grab the supplied AAMC Tial BOV flange and assemble the Tial BOV as shown below. Tighten the clamp before installing on the coupler.



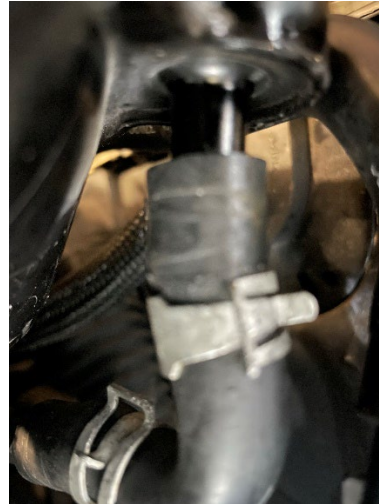
12. Install the Tial BOV on the AAMC BOV couplers. Adjust the positioning as necessary to allow enough space for the BOV. Move and adjust the A/C hard line as shown below to allow room for the Tial BOV. Do not tighten and clamps yet!



- 13.** Install the Tial air fittings on the BOVs and tighten enough so they are not loose but still capable of rotating by hand. Orient the air fittings towards the front of the intake manifold.



- 14.** Carefully remove the OEM PCV Hose behind the intake manifold and driver side throttle body as shown below. This hose connects a hard line to the plastic PCV nipple on the intake manifold.







**15.** Transfer the OEM hose clamps from the PCV hose to the AAMC Silicone Y-Fitting as shown below. Install the AAMC Silicone Y-Fitting as shown below. Install the hard line end first to make installation easier.



**16.** Cut the supplied 6mm silicone vacuum line in sections of 3', 1.5', and another 1.5' foot section.

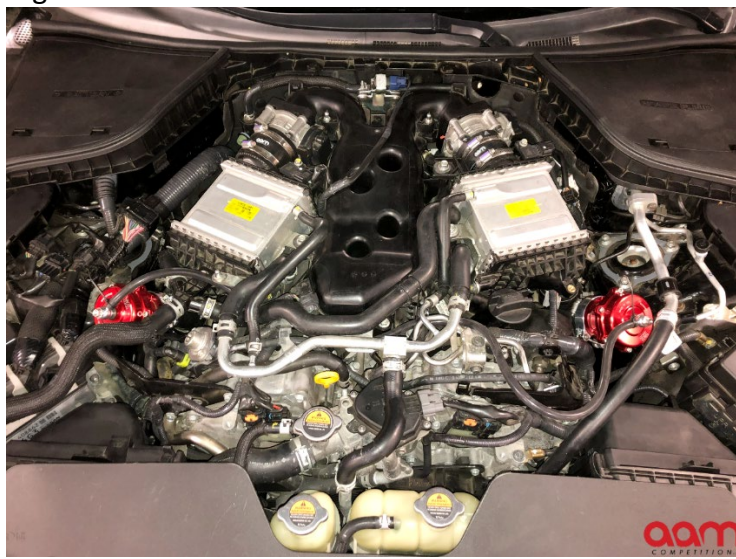




17. Route the long 3' section of vacuum line from the nipple on the supplied AAMC Silicone Y-Fitting under the driver side intercooler and throttle body to the front of the intake manifold. Connect the 3' section to the supplied vacuum tee and both 1.5' sections as shown below.

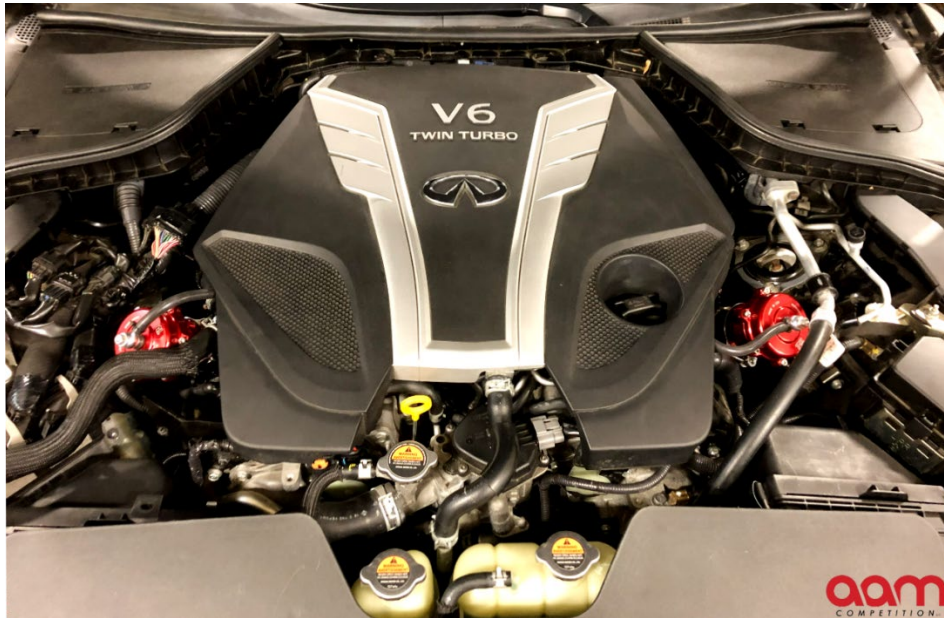


18. Route the open ends of the 1.5' section of vacuum line from the vacuum tee to the vacuum fittings on the Tial BOVs. Route the lines as you see fit making sure to avoid creating any kinks along the way. Cut the line shorter if needed.
19. Once the fitment has been confirmed use the supplied zip ties to secure the ends of every vacuum line. Tighten the vacuum fittings on the Tial BOVs once fitment has been confirmed.





- 20.** Once you have confirmed the vacuum lines fit without any kinks and the Tial BOVs have been clocked in the correct position, tighten all the worm drive clamps on the couplers. Ensure the worm drive clamps are positioned correctly to allow easy access to tighten and loosen the clamps as needed.
- 21.** Reconnect the MAP sensors and bolt the 8x12mm intercooler bolts back into place.
- 22.** Reinstall the engine cover making sure no vacuum lines are being pinched.



**Congratulations!**  
**You have successfully installed the AAM Competition Q50/Q60**  
**Front Mount Heat Exchanger! Enjoy!**