



## AAM Competition Q50/Q60 3.0T Cast Widemouth Full Downpipes



# 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:**

- 3/8" Drive Ratchet
- Ratchet Extension's
- Swivel Sockets or Swivel Attachment
- Trim Clip Removal Tool
- Wrenches
- Lug Wrench or Lug Nut Removal Tool

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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

### Steps 1-4 Performed From Top of Engine Bay Under Hood

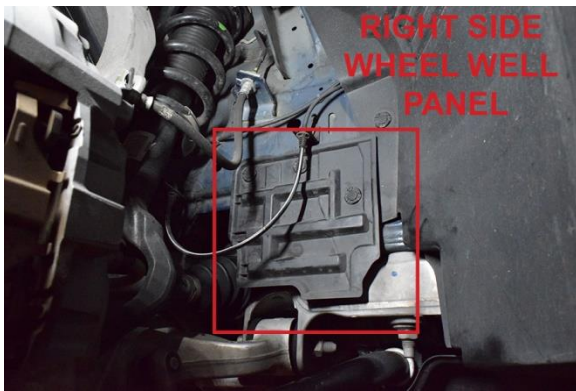
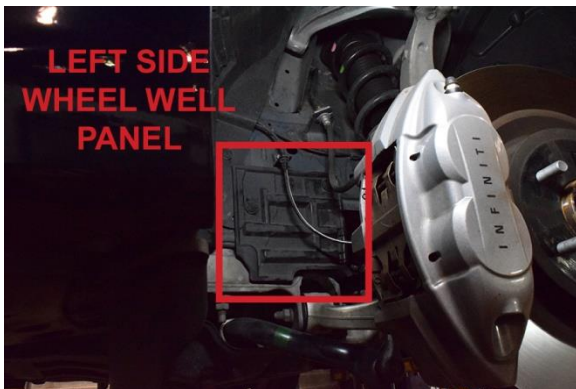
- 1.** Remove the Infiniti plastic engine cover and set aside
- 2.** Left Side - feed a long extension with 14mm socket down to the flange on top of the lower catalytic converter and remove the nut from the stud that faces toward the engine.
- 3.** Right Side - feed a long extension with 14mm socket, down to the flange on top of the lower catalytic converter and remove the 2 nuts from the studs that face toward the engine.
- 4.** Re-install the Infiniti plastic engine cover



**Red Boxes are where you should be able to fit socket with extension down to the top nuts.**

## Steps 5-25 Performed From Under Vehicle

5. Remove front wheels from the vehicle)
6. Remove the mid belly pan, it is held in place with 8 10mm bolts and 1 plastic clip
7. Remove plastic panel from the Left and Right Side wheel well



## Steps 8-11 Left Side Lower (Sitting in Driver Seat) Removal

8. Remove the "gold brace" from the transmission bell housing and lower catalytic converter
9. Unplug the O2 sensor from the wiring harness
10. Remove the 2 nuts from the bottom flange to Y-Pipe
11. Remove the remaining hardware for the lower catalytic converter and 1 nut on upper flange

## Steps 12-15 Right Side Lower (Sitting in Driver Seat) Removal

12. Remove the "black brace" from the transmission bell housing and lower catalytic converter
13. Unplug the O2 sensor from the wiring harness
14. Remove the 2 nuts from the bottom flange to Y-Pipe
15. Remove the remaining hardware for the lower catalytic converter and remaining (1) nut from upper flange

## O2 Sensors

**Caution: Always use appropriate tools and take care when handling O2 sensors. Do not to touch the sensor probe, use any type of cleaner on them, or drop sensors**

16. Remove the O2 sensors from the lower catalytic converters and install them into the new AAM Cast Full Down Pipes. **Note: Be sure to install sensors into the same side they were removed from.**

## Steps 17-21 Right Side Upper Removal

17. Remove the two 14mm bolts holding the support bracket in place and remove support bracket
18. Remove the 10mm bolt from the lower heat shield
19. Loosen the 10mm bolt on the side of the top heat shield roughly three quarters of the way out. This bolt does not need to be removed but if you do it will not cause a problem, it is just very difficult to reinstall once removed
20. Pry the upper heat shield towards the outer frame rail to provide access to the V-band clamp bolt and use a 13mm socket with extension to remove V-band clamp bolt

**Note: Take picture or notate the clocking of the V-band because it will need to be installed in the same position**



**21.** Pry open v-band clamp while moving the upper catalytic converter at the same time, once loose remove the assembly

#### **Steps 22-26 Left Side Upper Removal**

**22.** Remove the two 14mm bolts holding the support bracket in place and remove support bracket

**23.** Remove two 10mm bolts from the lower heat shield

**24.** Remove the 10mm outer heat shield bolt from the top heat shield

**25.** Pry the upper heat shield towards the outer frame rail to provide access to the V-band clamp bolt and use a 13mm socket with extension to remove V-band clamp bolt

**Note: Take picture or notate the clocking of the V-band because it will need to be installed in the same position**

**26.** Pry open v-band clamp while moving the upper catalytic converter at the same time, once loose remove the assembly

#### **Steps 27-37 Installation of AAM Competition Cast Full Down Pipes**

**27.** Install AAM Competition Cast Full down pipes on both Left and Right side; be sure to reinstall the V-bands with on the same side and same clocking as removed. Snug 13mm V-band bolts but do not fully tighten, you will want to leave them loose enough to rotate the down pipes but not have vertical movement.

**28.** Plug both secondary O2 sensors in to the wiring harness

**29.** Bolt and fully tighten the AAM Competition Cast Full down pipes to the rest of the exhaust system, this will ensure proper rotation and alignment of down pipes

**30.** Fully tighten the 13mm V-band bolt on both Left and Right side V-band, ensuring V-band clocking is same as removal

**31.** Reinstall the 10mm heat shield bolts in the Right side upper and lower heat shields

**32.** Reinstall the 10mm heat shield bolts in the Left side upper and lower heat shields

**33.** Reinstall the mid belly pan

**34.** Reinstall the front wheels and torque to manufacturer specs

**35.** Visually inspect installation of all components and ensure everything is reinstalled correctly and connected

**!! In the case that something is found not to have been installed correctly or connected, DO NOT proceed to next step until problem is rectified !!**

**36.** Start vehicle and verify that there are no exhaust leaks; **If an exhaust leak is found, rectify the issue and repeat this step until not leaks are present**

**Congratulations!**

**You have successfully installed the AAM Competition Q50/Q60  
3.0T Cast Widemouth Full Downpipes! Enjoy!**