

# ALPHA $\alpha$

Performance Packages



**PORSCHE MACAN DOWNPIPE  
INSTALLATION INSTRUCTIONS**

The goal of Alpha Performance is to provide the highest quality, best performing products available. By utilizing research and development, and rigorous testing programs Alpha Performance will never compromise the quality or performance of our products. In addition, Alpha Performance will only provide the finest customer service offering only parts and advice that are in the best interests of the customer. Alpha Performance was built on a foundation of integrity. This is who we are; this is what you can count on.

A vehicle modified by the use of performance parts may not meet the legal requirements for use on public roads. Federal and state laws prohibit the removal, modification, or rendering inoperative of any part or element of design affecting emissions or safety on motor vehicles used for transporting persons or property on public streets or highways. Use or installation of performance parts may adversely affect the drivability and reliability of your vehicle, and may also affect or eliminate your insurance coverage, factory warranty, and/or new OEM part warranty. Performance parts are sold as-is without any warranty of any type. There is no warranty stated or implied due to the stresses placed on your vehicle by performance parts and our inability to monitor their use, tuning, or modification.

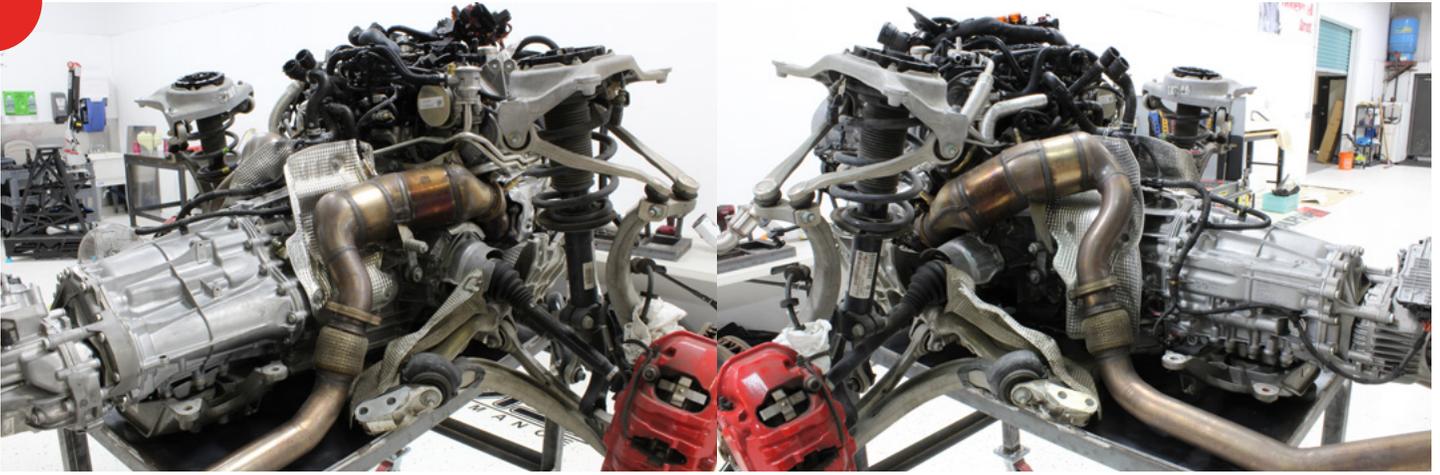
These instructions are provided as a guide only as there are many variables that cannot be accounted for concerning your particular vehicle, including but not limited to model year differences, model differences, the presence of non-OEM parts, and modifications that may already be or were previously installed. A basic knowledge of automotive parts and systems is helpful but a better understanding of the parts and systems on your particular vehicle may be required.

If you have any questions or issues at any time during the installation of your Alpha Performance product(s) please call us for technical assistance. The Alpha Performance tech line can be reached during business hours at 847-709-0530 for Alpha Performance products only.

# Downpipe Installation

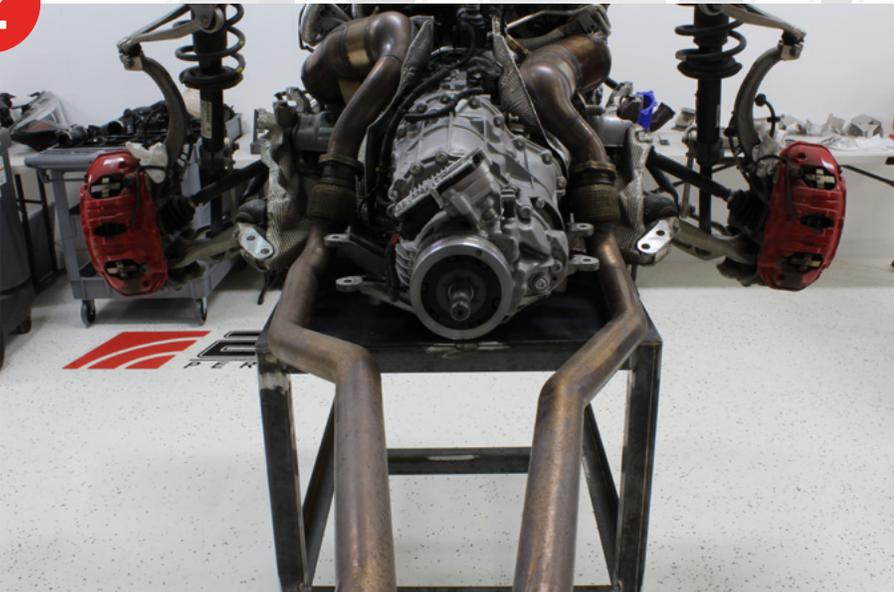
1. Follow the factory service manual to remove the engine and transmission as an assembly.

1



2. Remove the mid pipes sections. The right downpipe connecting studs are facing upwards and are easiest to remove with the engine down.

2

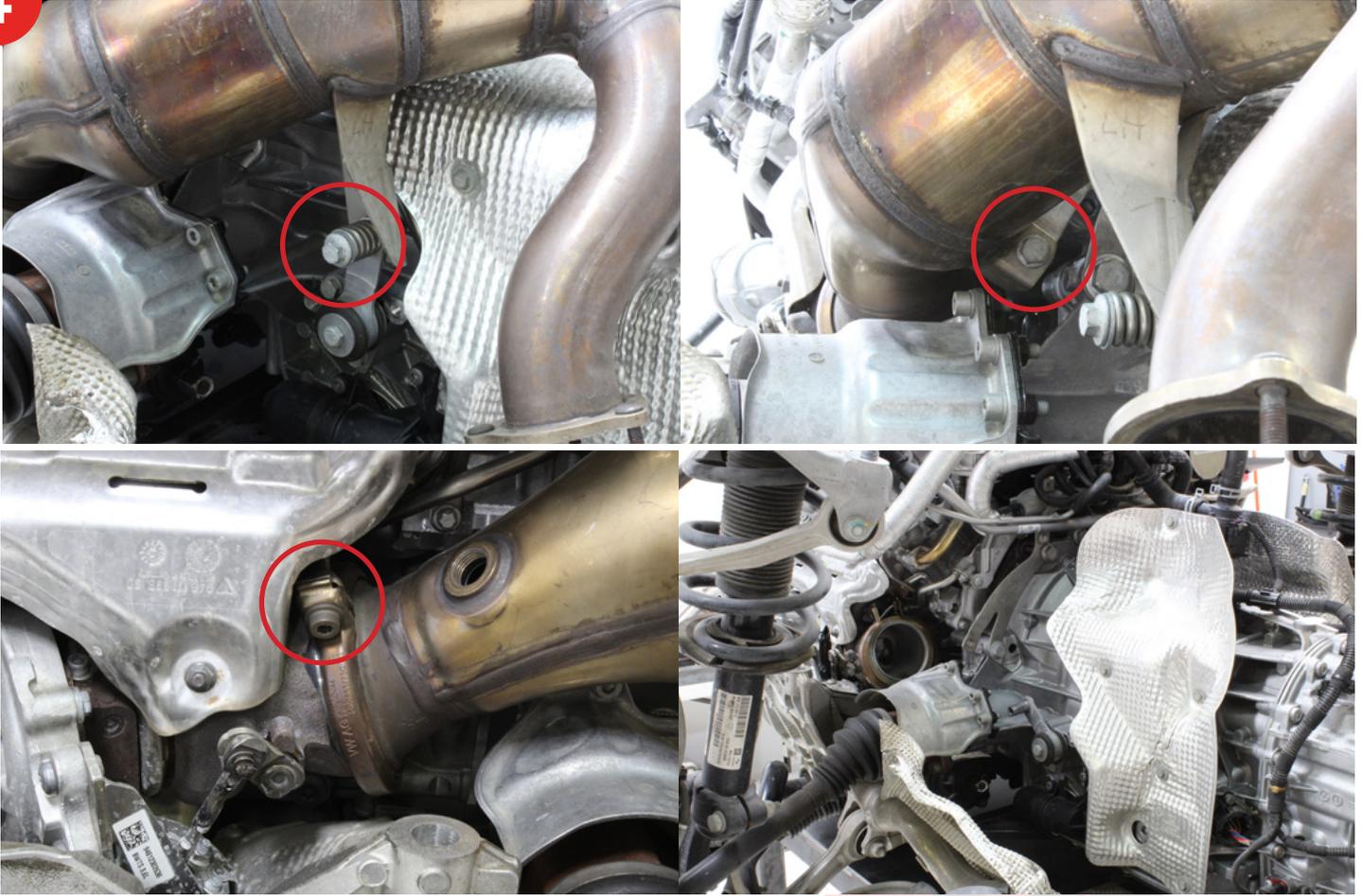


3. Remove all four O2 sensor for the factory downpipes

3

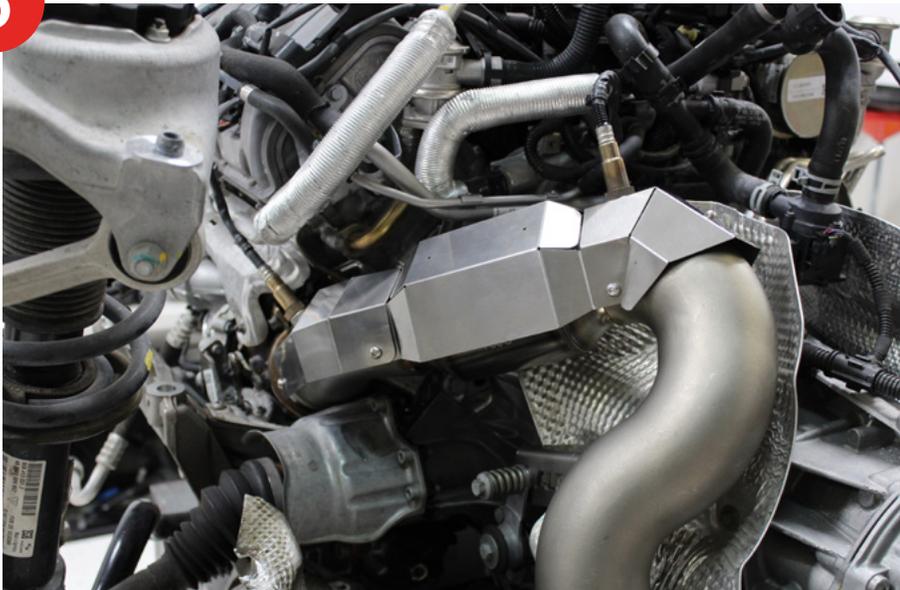
4. Remove the left side downpipe. The factory v-band clamp, spring bolt, and mounting bracket bolt will be reused.

4



5. Install the assembled left side Alpha downpipe in the reverse order of removal. Use the supplied M8 nut for the backside of the spring bolt. Reinstall the O2 sensors.

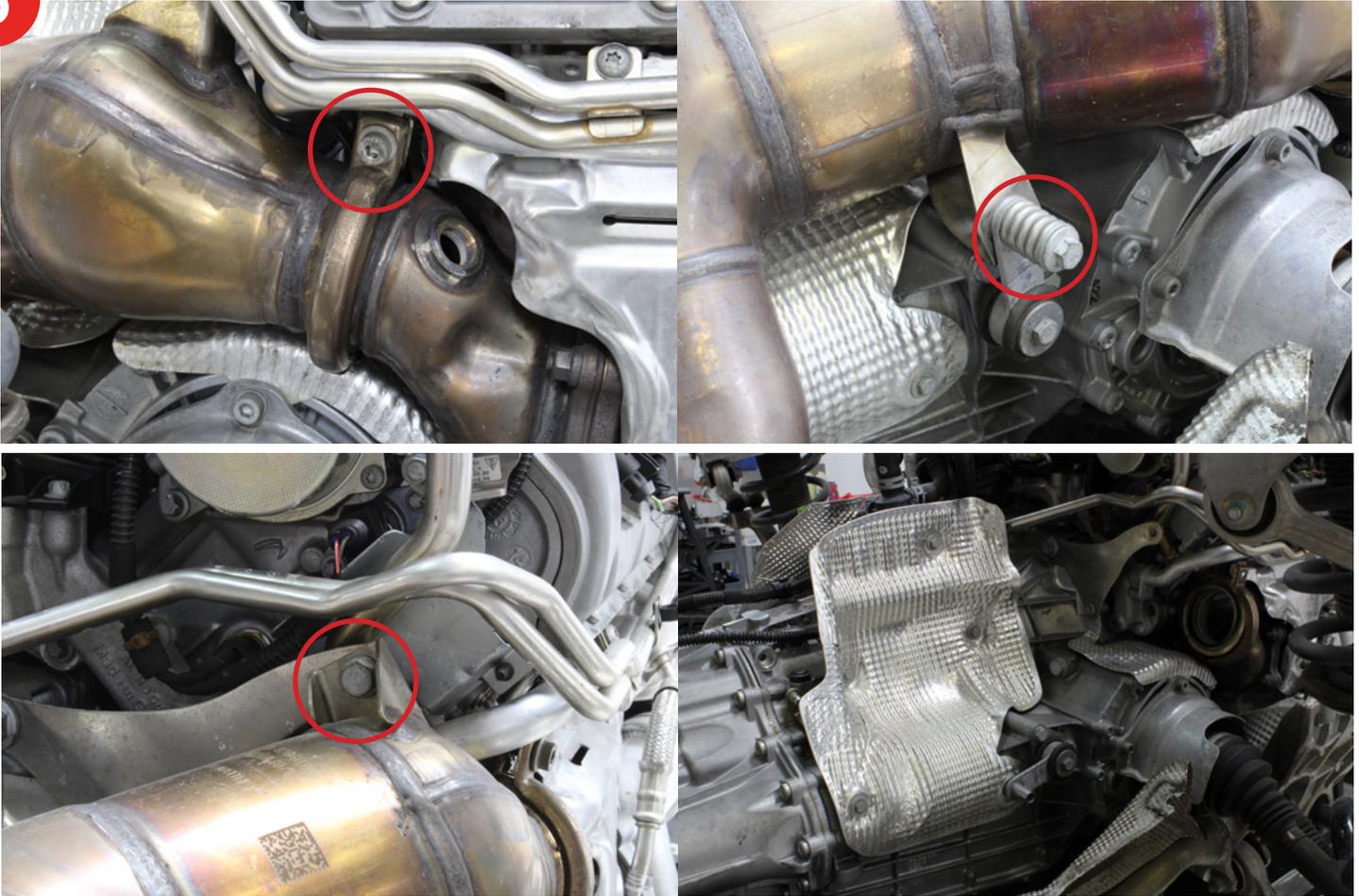
5



4

6. The right side downpipe is disassembled in 2 parts. Remove the top half as was done on the left side. The factory spring bolt and mounting bracket bolt will be reused, however, the factory v-band will not be reused on this side.

6



7. Next remove the second part of the downpipe. Unbolt the piece from the turbine outlet flange. If the studs come out with the hardware, this is ok as some studs will need to be removed to install the Alpha downpipe.

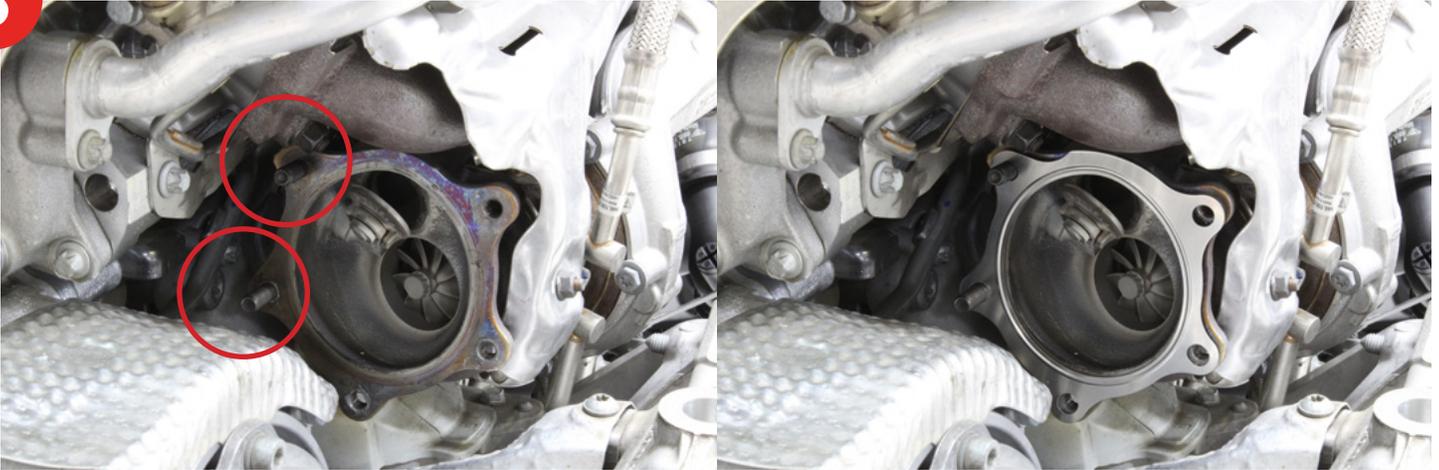
7



5

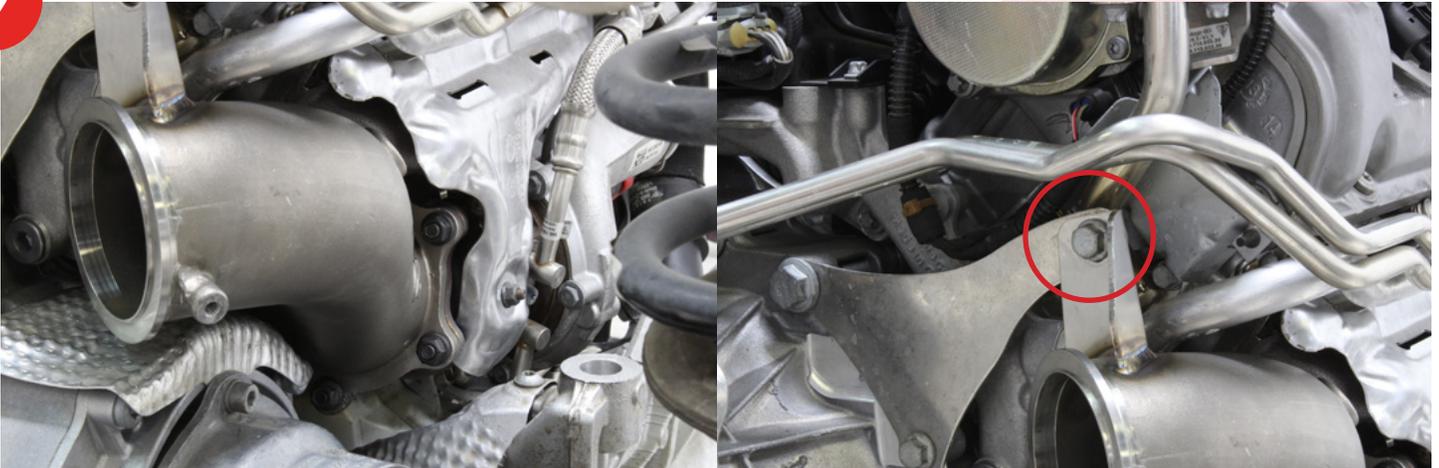
8. A new set of studs and hardware has been provided. Install only the two studs closest to the engine as shown. After installing the studs, install the new turbine outlet gasket. If the other studs remained in the turbine housing flange, remove and discard them now.

8



9. Install the new Alpha turbine outlet side of the downpipe using the new supplied nuts. Reinstall the mounting bracket bolt.

9



6

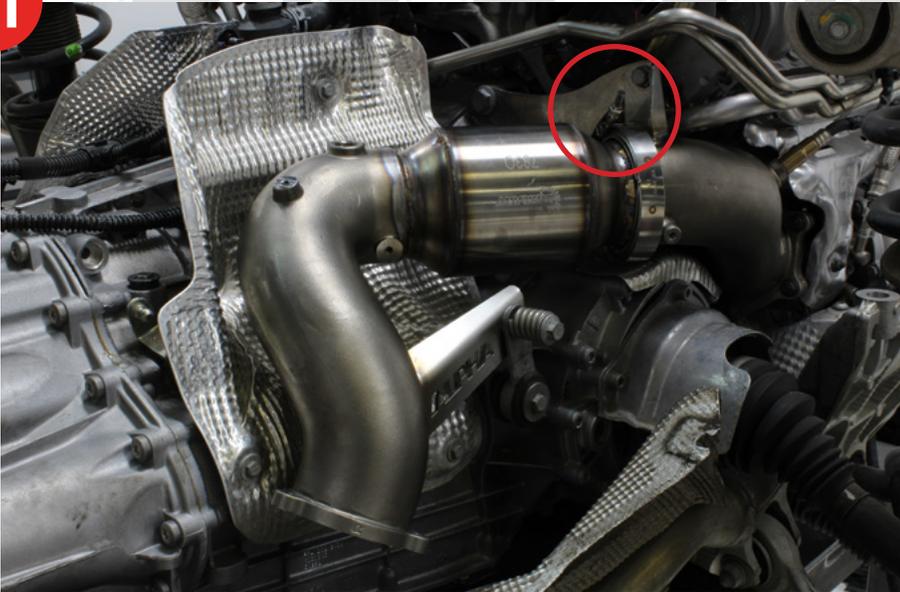
10. Reinstall the primary O2 sensor.

10



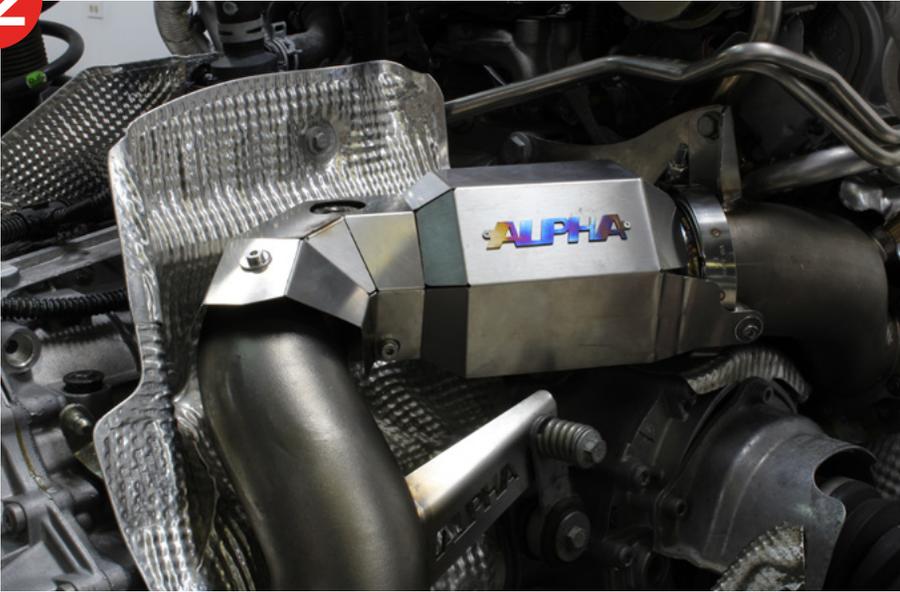
11. Install the second half of the downpipe using the new supplied V-band clamp and reusing the spring bolt. Clock the V-band bolt as shown below. The stud should be facing upwards towards the inside of the engine. Use the supplied M8 nut on the back side of the spring bolt.

11



12. Locate the heat shields and hardware. Start by installing the cat shield first, then the small bend. The small shield will overlap the cat shield.

12



13. Reinstall the secondary O2 sensor.

13



**14.** Remove the studs from the right side midpipe. This can be done on a press or using heat and hammering them out. Take care not to damage the flange. New studs for the downpipe have already been installed. Having the studs installed in the downpipe allows easier removal of the midpipes. New midpipe to downpipe nuts and gasket have been included.

**14**



**15.** Reinstall the motor assembly.

**16.** Enjoy!

**ALPHA**