



## **IE Audi B9 A4 & A5 Downpipe Install Guide**

### **IEEXCK1**

Thank you for purchasing another high quality Integrated Engineering product! This instruction guide is used for installation of IE's 3" Downpipe System for Audi B9 A4 & A5 2.0T applications. This kit needs to be installed by a professional or an experienced technician. Integrated Engineering is not responsible for any damage caused by incorrect installation.

#### **Required Tools:**

- Flathead screwdriver
- Socket wrench
- 11mm socket
- 12mm socket
- 13mm socket
- 15mm socket
- Multiple socket wrench extensions
- T25 torx bit
- T30 torx bit
- 10mm triple square bit
- 12mm triple square bit
- 22mm crescent wrench or O2 sensor socket
- 15mm ratcheting crescent wrench
- 13mm ratcheting crescent wrench

#### **Included Components:**

- 1X Downpipe flex section
- 1X Downpipe catalytic converter
- 1X Midpipe section
- 1X 3" to 60mm slip-fit adapter
- 3X Slip-fit adapter exhaust clamps
- 1X V-band clamp
- 1X CAT to turbo gasket
- 4X Downpipe to turbo nuts
- 1X Downpipe mount bolt
- 1X Downpipe mount nut



Before you begin, open your IE Downpipe Kit, inspect all components, and verify their quantities.

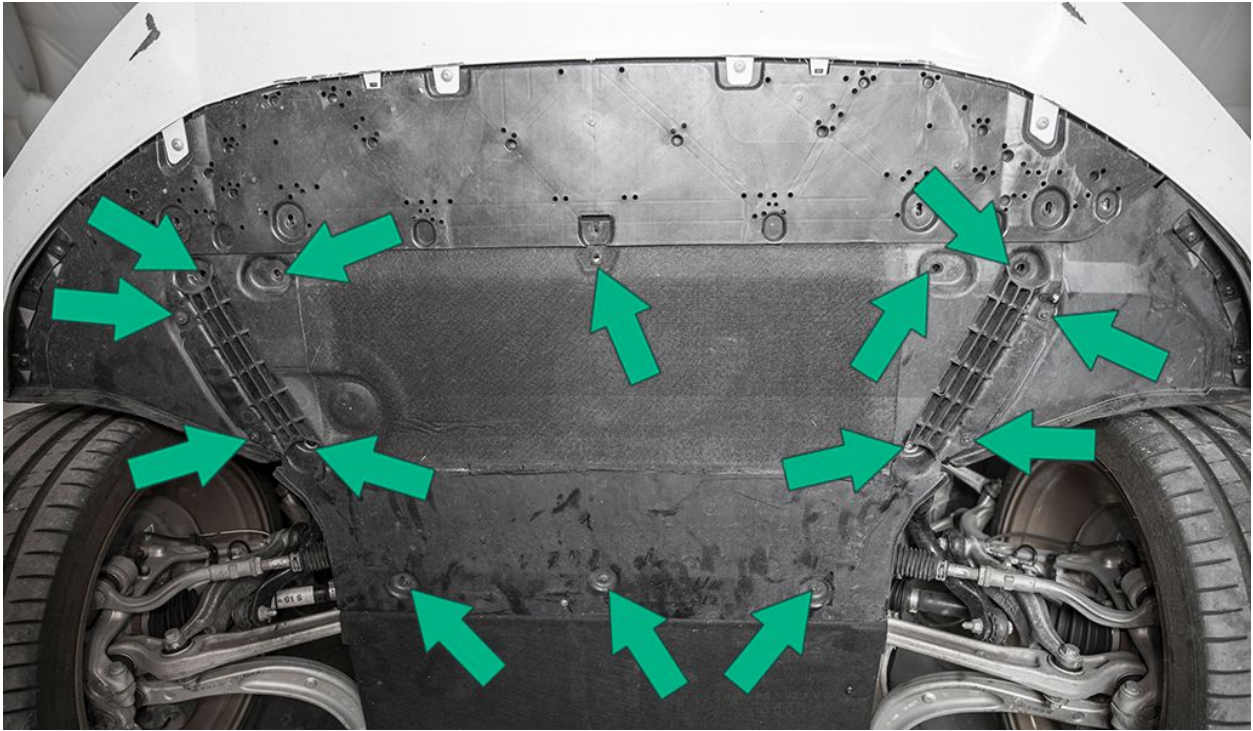




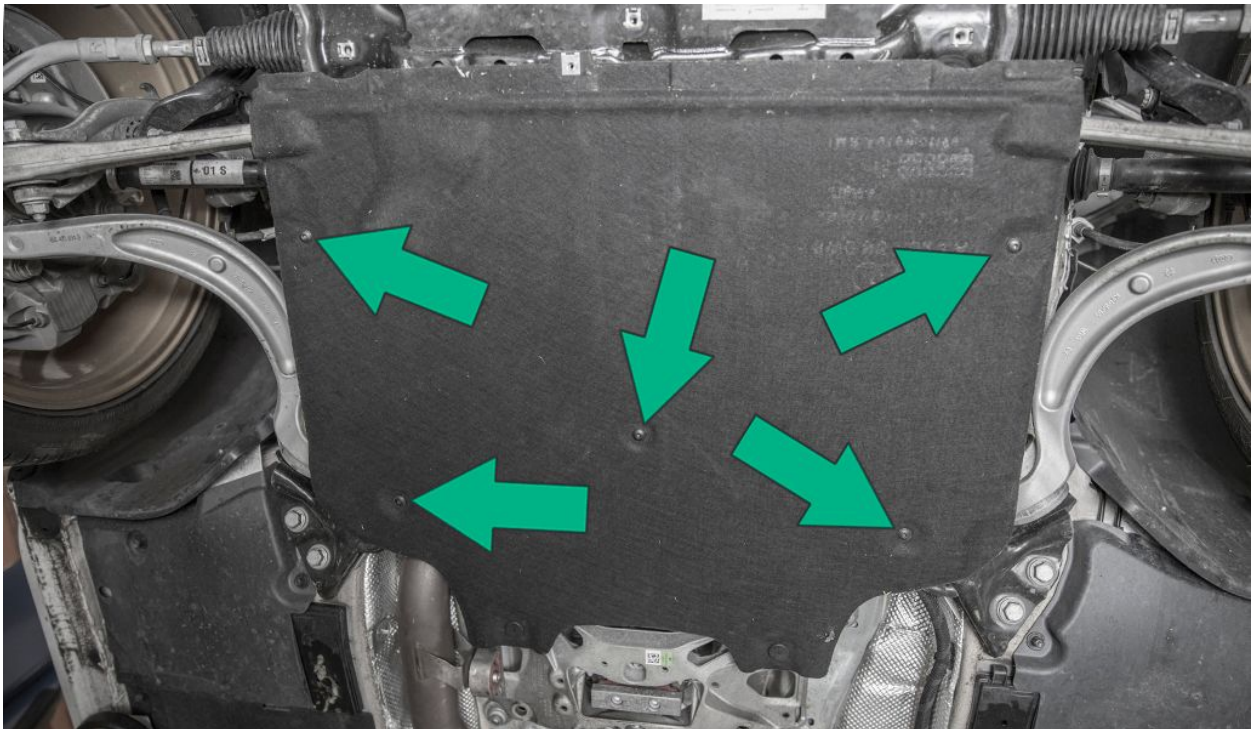
Safely rack your car on an auto lift or place onto jack stands. It is also recommended to allow the car to cool before beginning this install procedure.



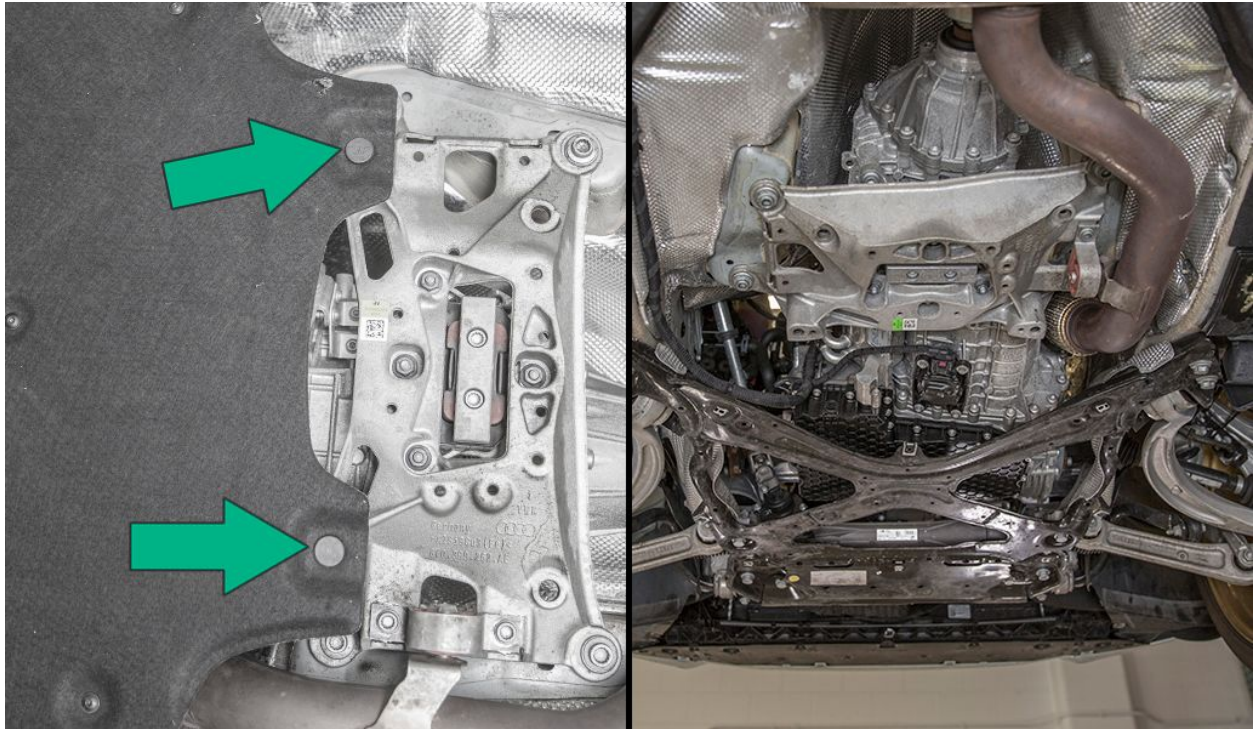
Begin the install by removing the belly pan. Remove the 6 T30 bolts followed by the 8 T25 screws and remove the belly pan completely. *Note: The T25 screws will not remove completely, once loose the pan will drop with the screws in place.*



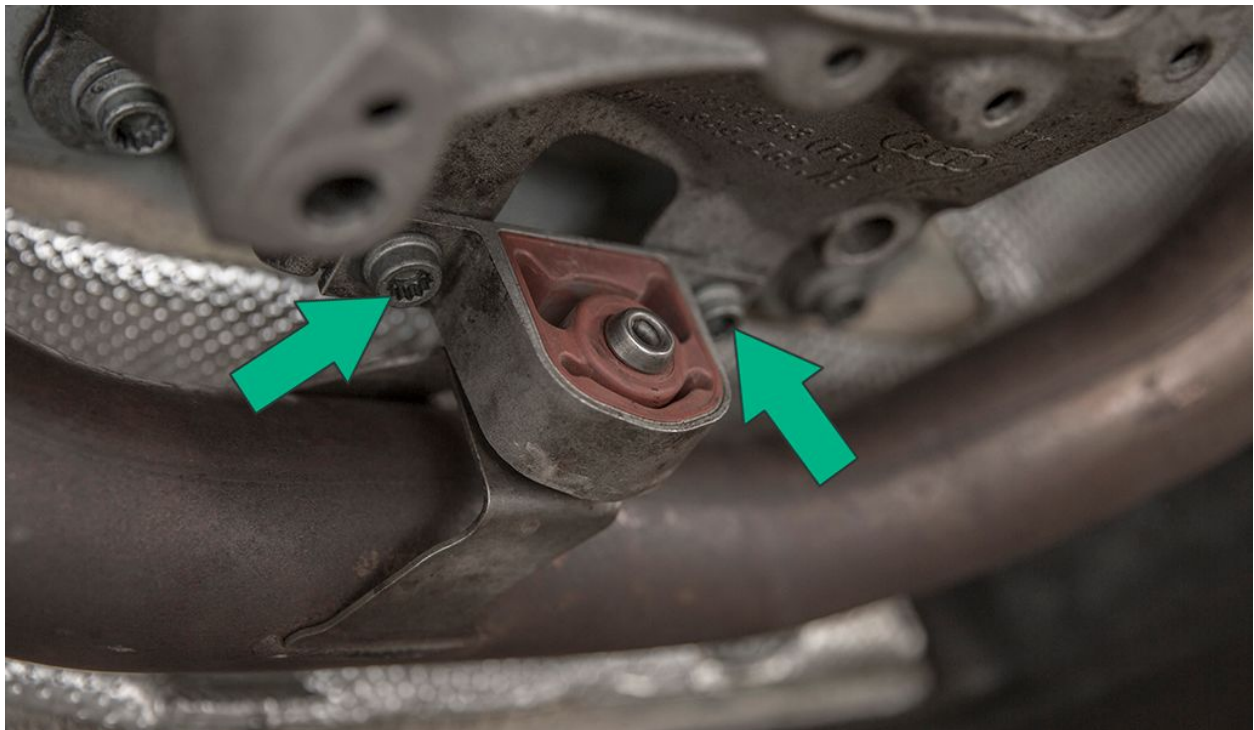
Loosen the 5 T25 bolts from the transmission belly pan in the same manner.



Remove the 2 plastic retainers from the rear of the transmission belly pan and remove it completely.



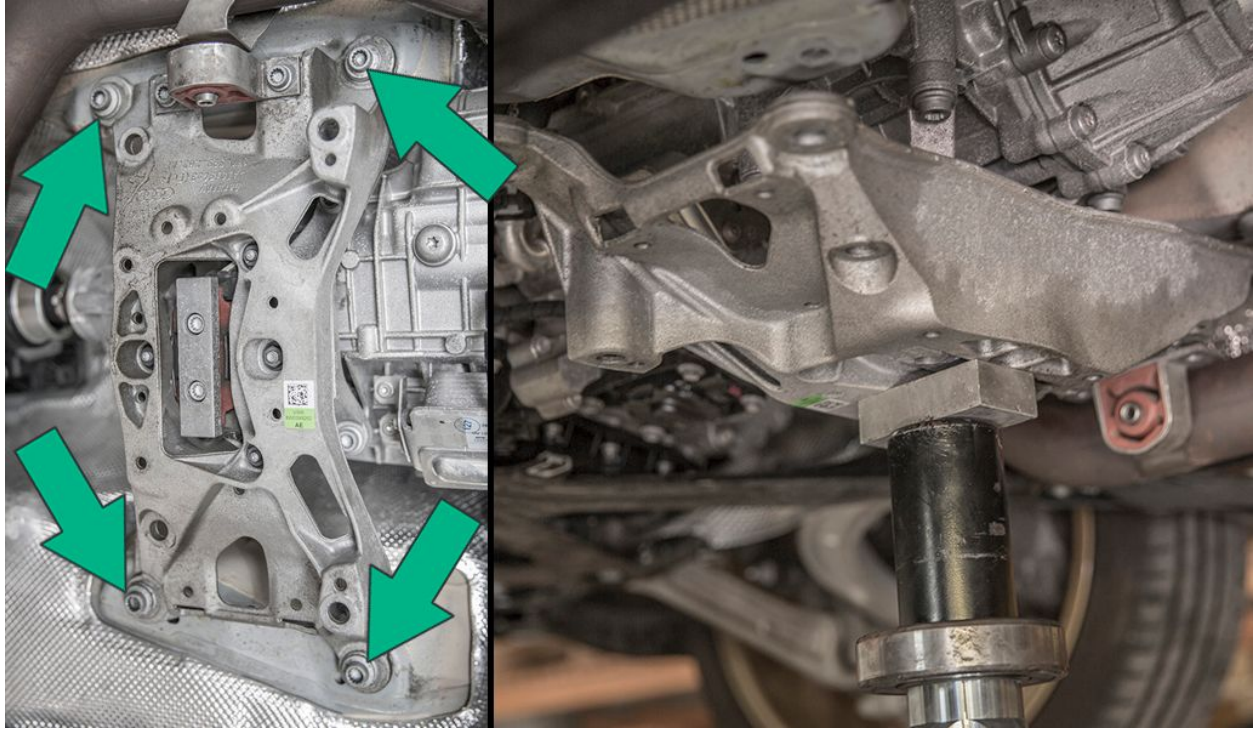
Remove the 2 10mm triple square bolts to release the downpipe mount from the transmission mount bracket.



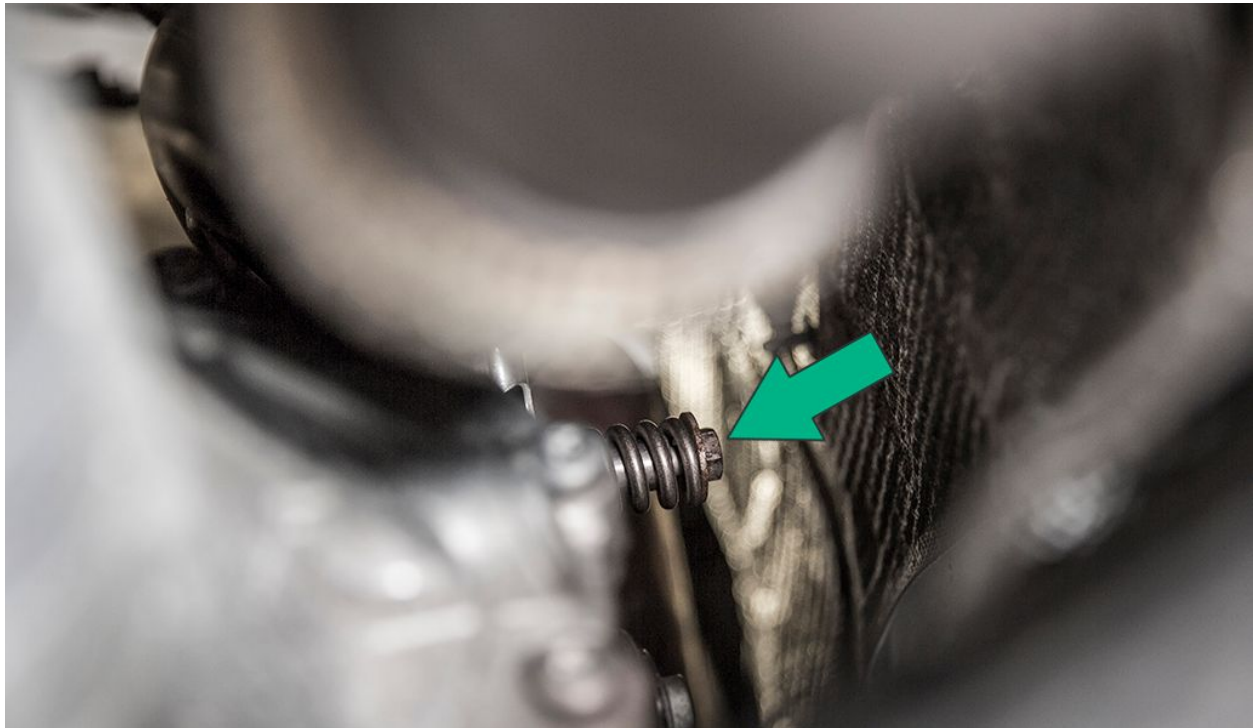
Supporting the transmission mount bracket with a jack, Remove the 4 12mm triple square bolts securing the trans mount bracket. *Note: You can skip this step, however lowering the trans*



*mount allows for much easier access to the downpipe bolts resulting in an easier install.*

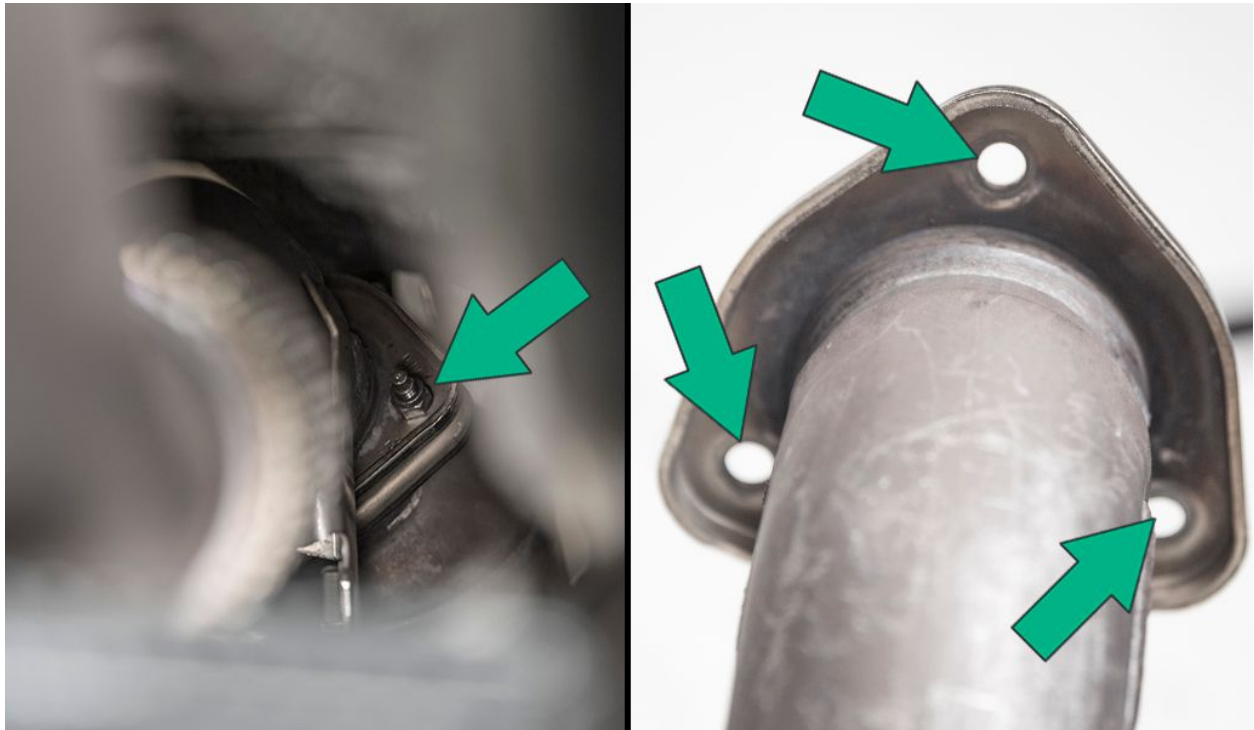


Using a 13mm socket, remove the bolt and washer from the spring mount on the downpipe.  
*Note: Make sure to keep the spring and washer, you will be reusing these for install.*





Remove the 3 13mm nuts from the flex section of the downpipe using a socket and long extension. *Note: It is very difficult to see all 3 nuts, use the photo below to help locate them.*



Remove the two 13mm nuts from the downpipe to catback clamp, then carefully split the two sections apart. Remove the factory exhaust clamp.





Carefully pull the flex section from the catalytic converter and remove the entire mid-pipe.



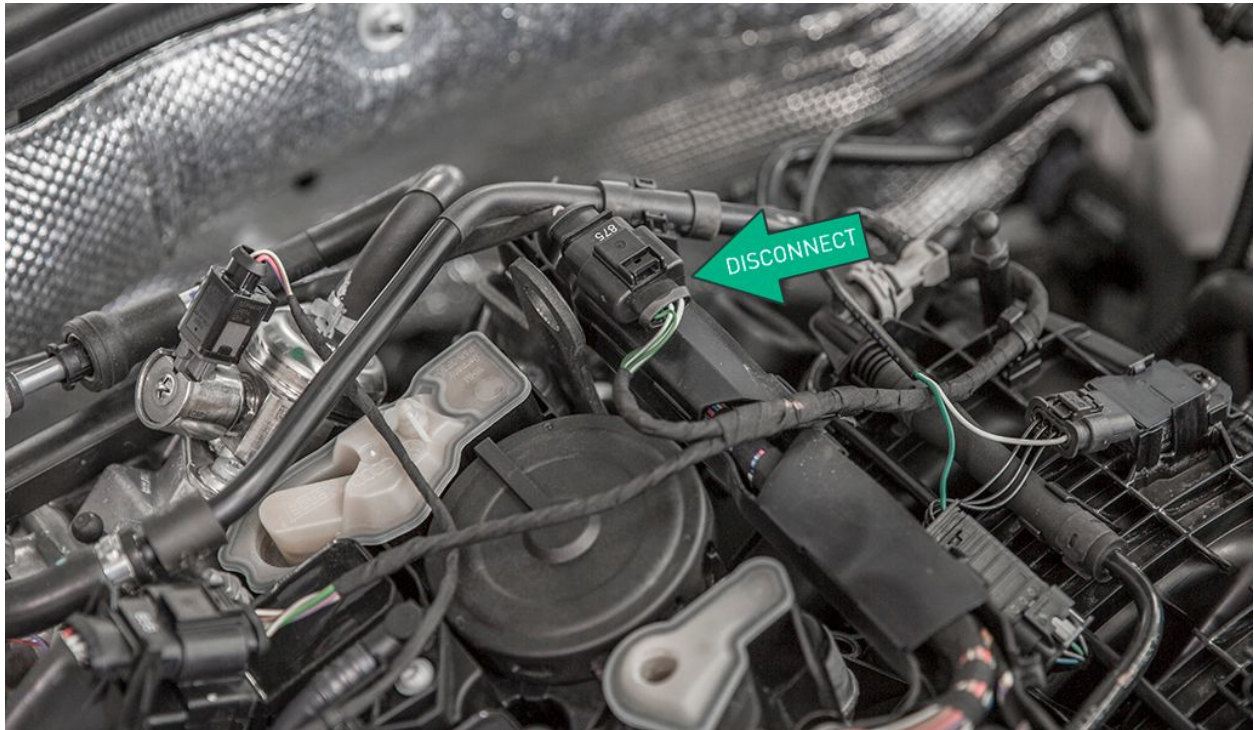
Remove the engine cover and factory or aftermarket intake from the vehicle. Note: If you need a guide to remove the intake, please refer to our B9 CAI install guide for IE part number IEINCK1.



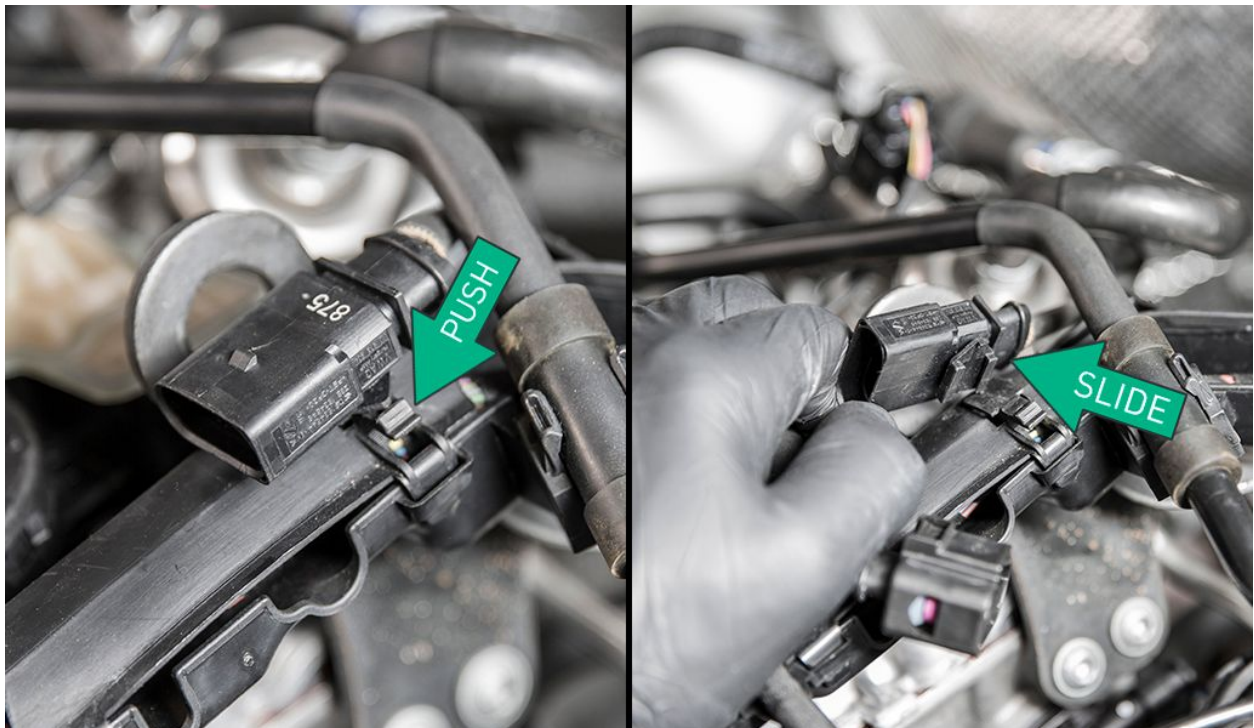




Disconnect the O2 sensor clip located on top of the engine.



Separate the O2 sensor wire from the wire harness by pushing down on the clip and sliding back on the plug as seen below.

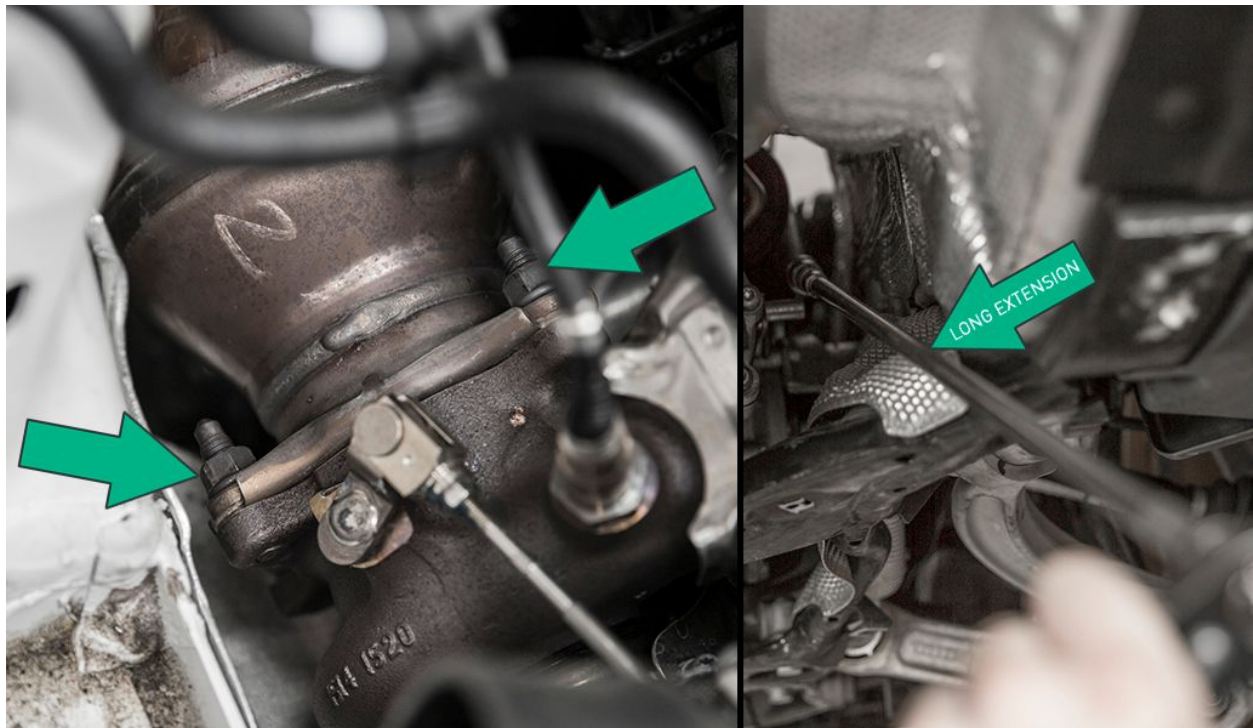




Release the O2 sensor wire from the mount on the rear of the engine above the downpipe.



Remove the 4 15mm nuts from the CAT to turbo flange. *Note: this will require a long extension(s) from under the car to reach the two lower nuts.*

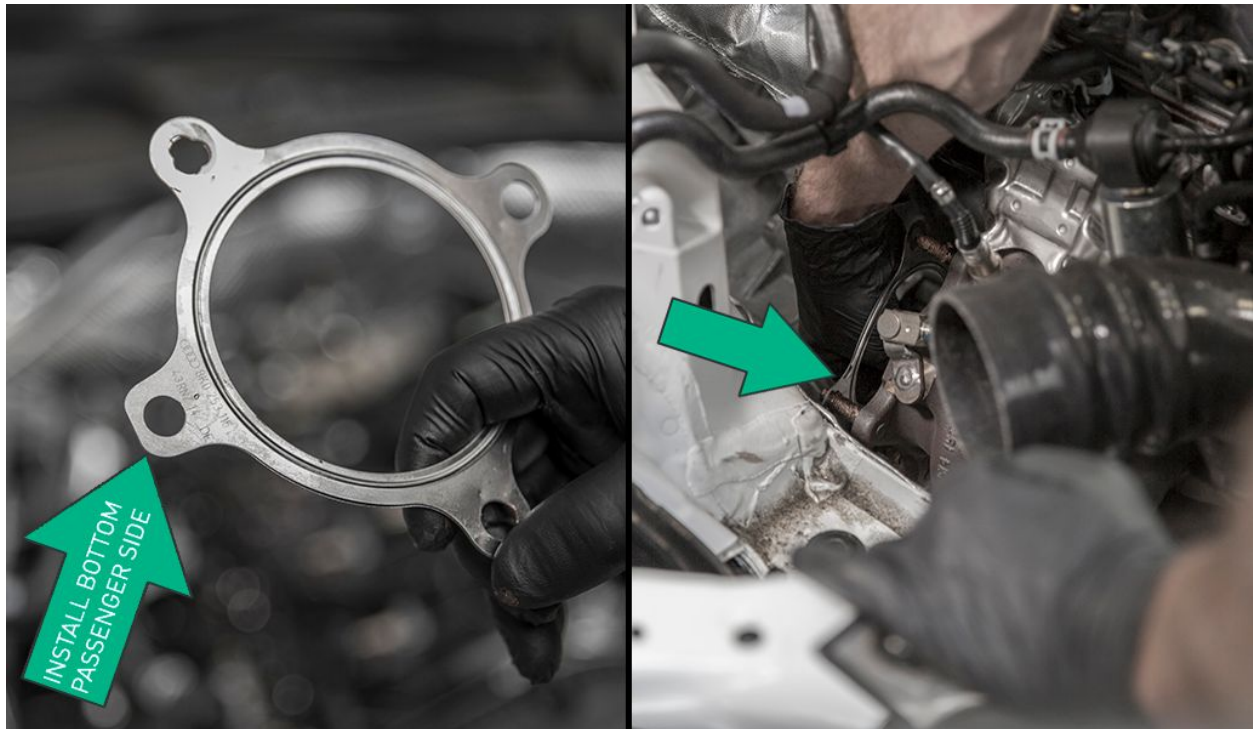




Remove the CAT by maneuvering it behind the engine and out from the driver's side of the engine bay. Also remove the factory cat to downpipe gasket in this step.



Install the new supplied cat to downpipe gasket. Make sure the flat edge of the gasket is in the bottom corner on the passenger side as pictured below.

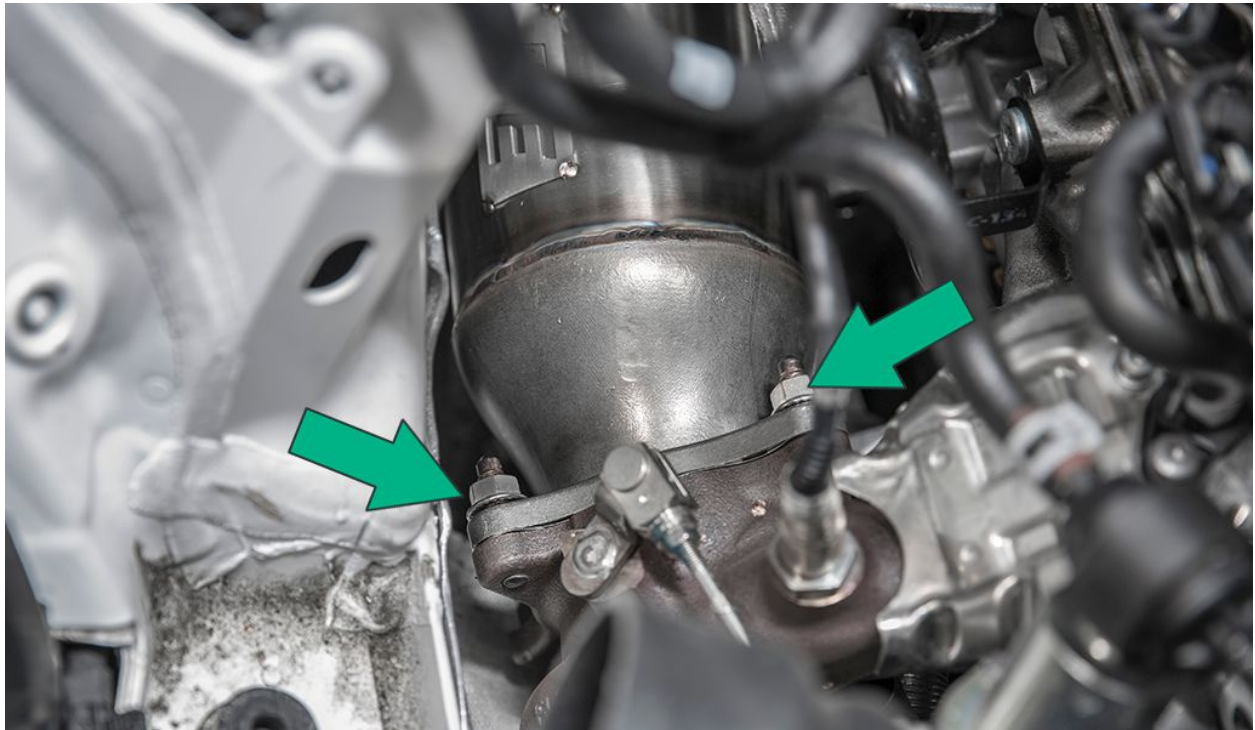


Install the new IE High Flow Cat into place. Begin on the drivers side 4 bolt flange side first and maneuver it into place from behind the engine. *Note: The IE logo should be upright and facing outwards towards the passenger side of the vehicle.*





Install the 4 new supplied turbo nuts using a 15mm socket. *Note: IE recommends using anti-seize on the turbo studs before installing the new nuts.*

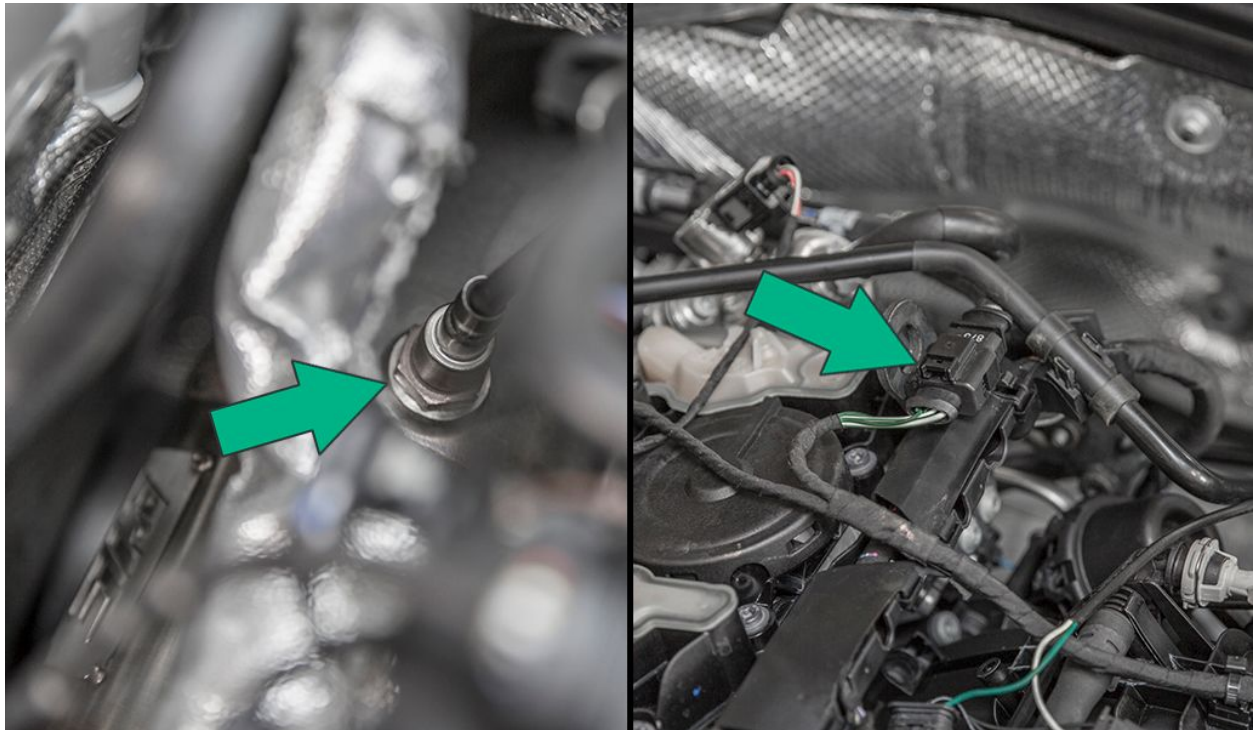


Using a 22mm crescent or O2 sensor socket, remove the O2 sensor from the factory CAT.





Apply anti-seize to the O2 sensor and re-install to the new IE High Flow Cat. Once installed, reconnect the O2 sensor wire mount clips and connector plug.

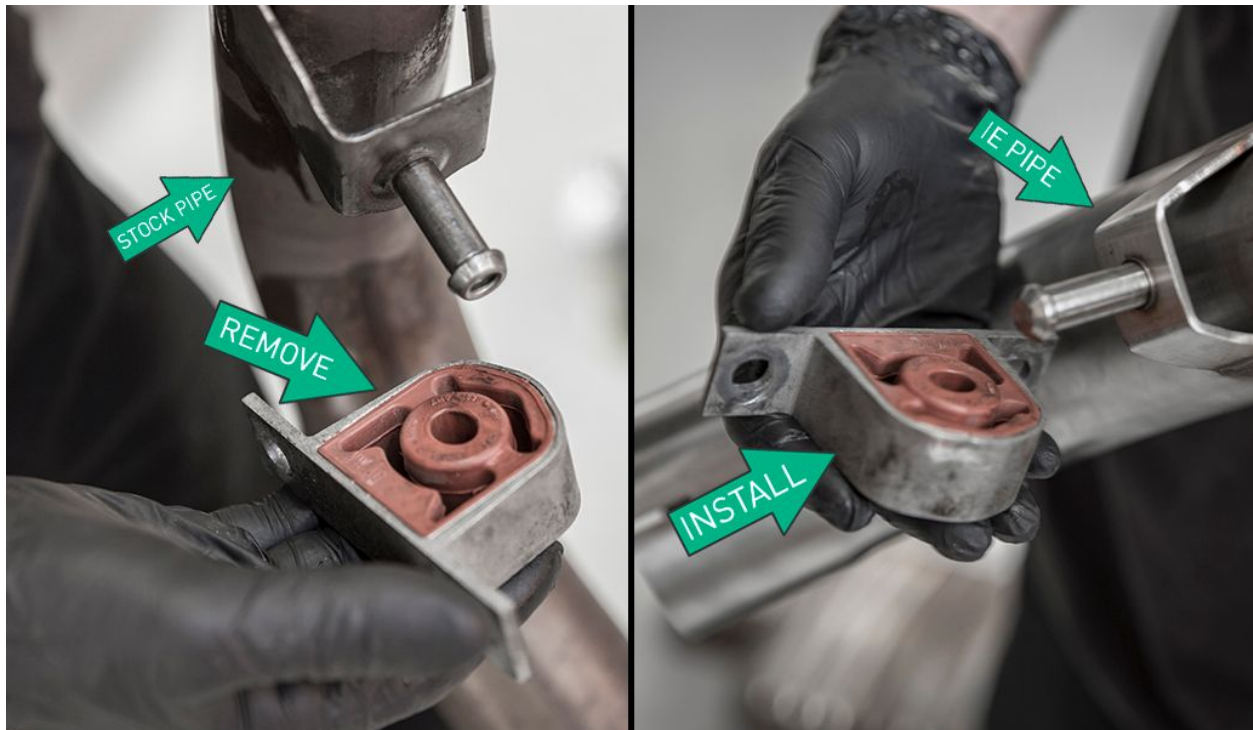


Reinstall the transmission bracket by tightening the 4 12mm triple square bolts.

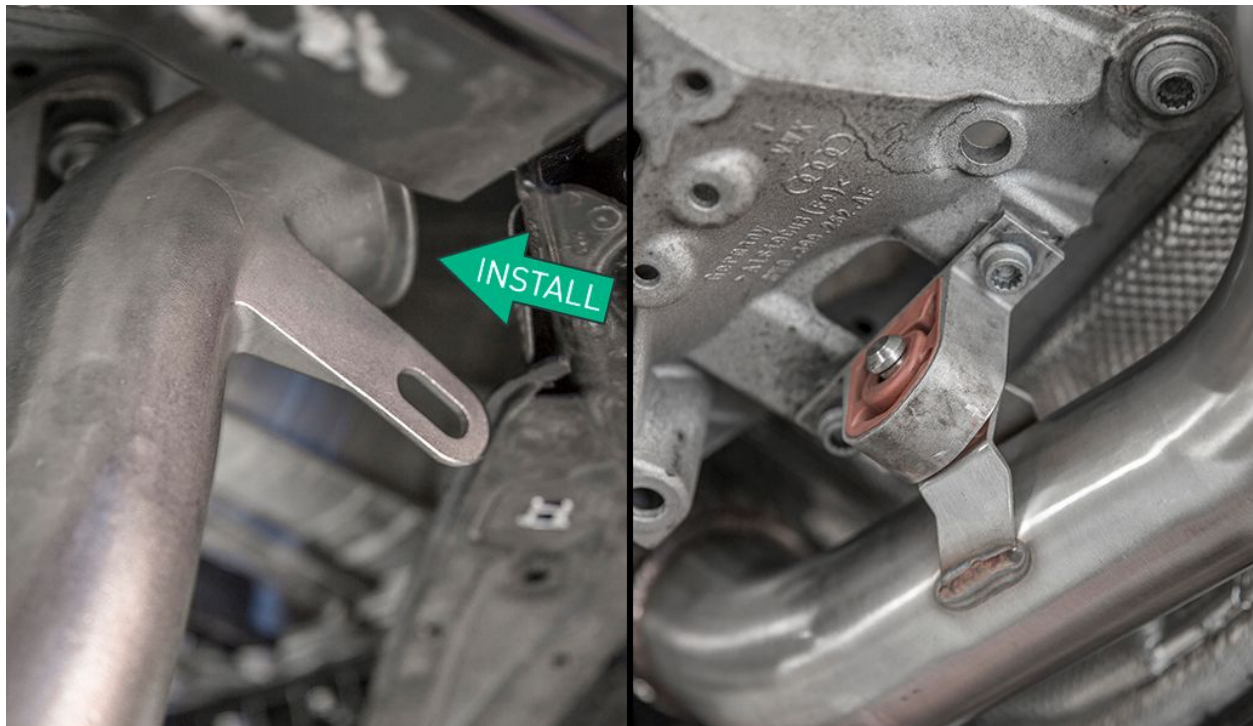




Remove the factory downpipe mount from the stock pipe and reinstall it to the new IE downpipe flex section. *Note: If your mount shows excessive wear, this would be a good time to replace it.*

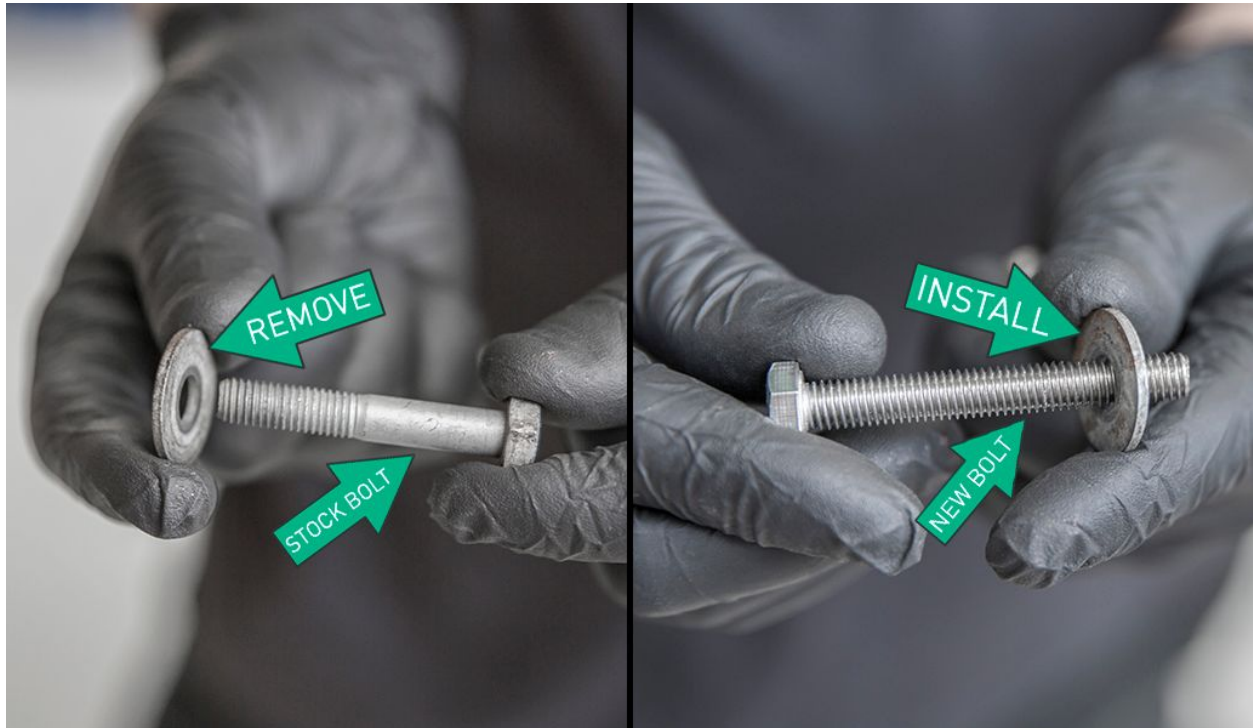


Position the new IE flex section into place and reinstall the factory mount with the 2 factory 10mm triple square bolts.





Remove the factory washer from the factory spring bolt and install it onto the new supplied bolt.



Install the factory spring, washer, IE bolt, and IE nut through the IE downpipe mount using a 13mm crescent wrench and 13mm socket.







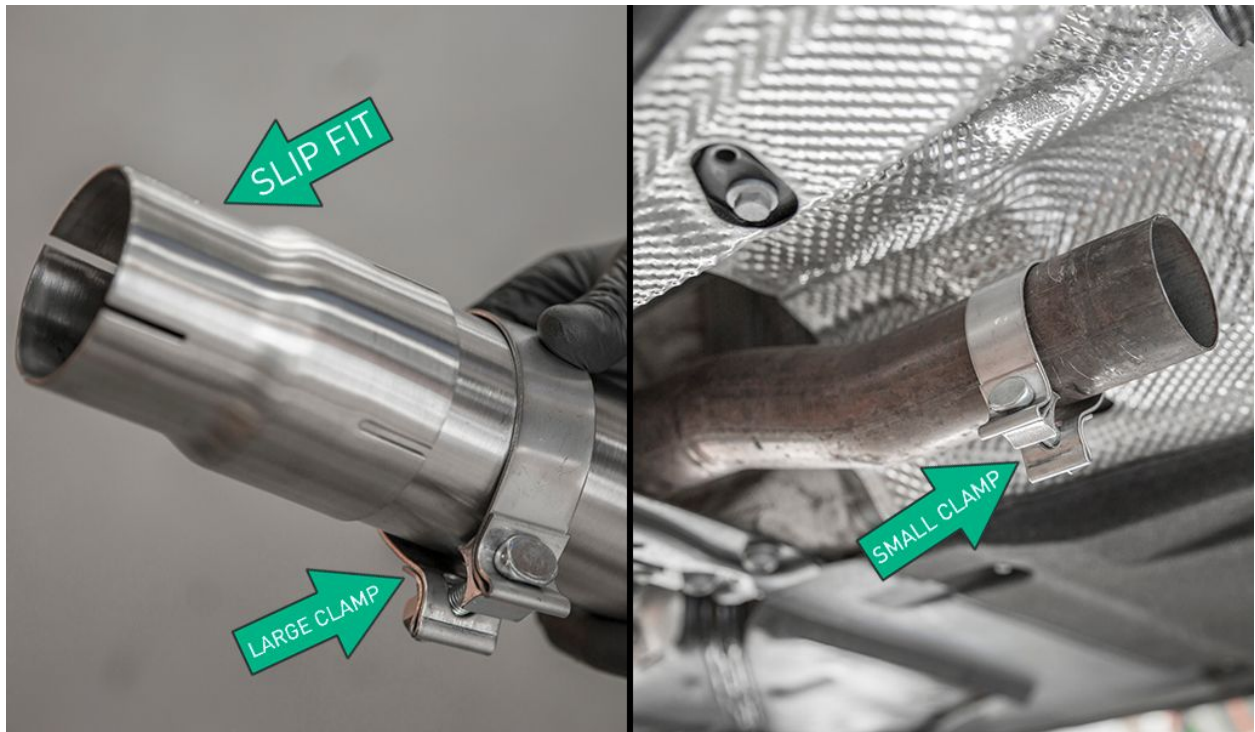
Place one large exhaust clamp over the flex section slip fit end.



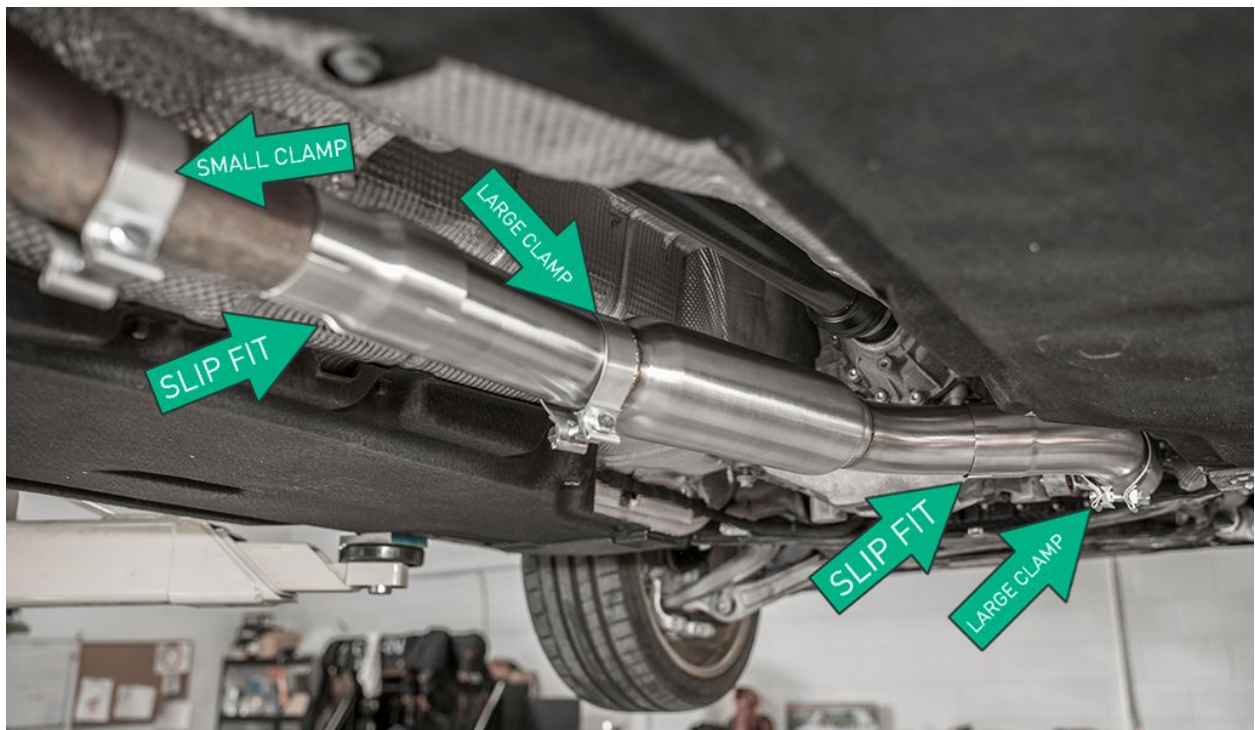
Clean and apply anti-seize to the factory cat-back along with the small clamp. Apply more anti-seize to the straight section of the IE midpipe, install the last large clamp and slip fit



adapter.

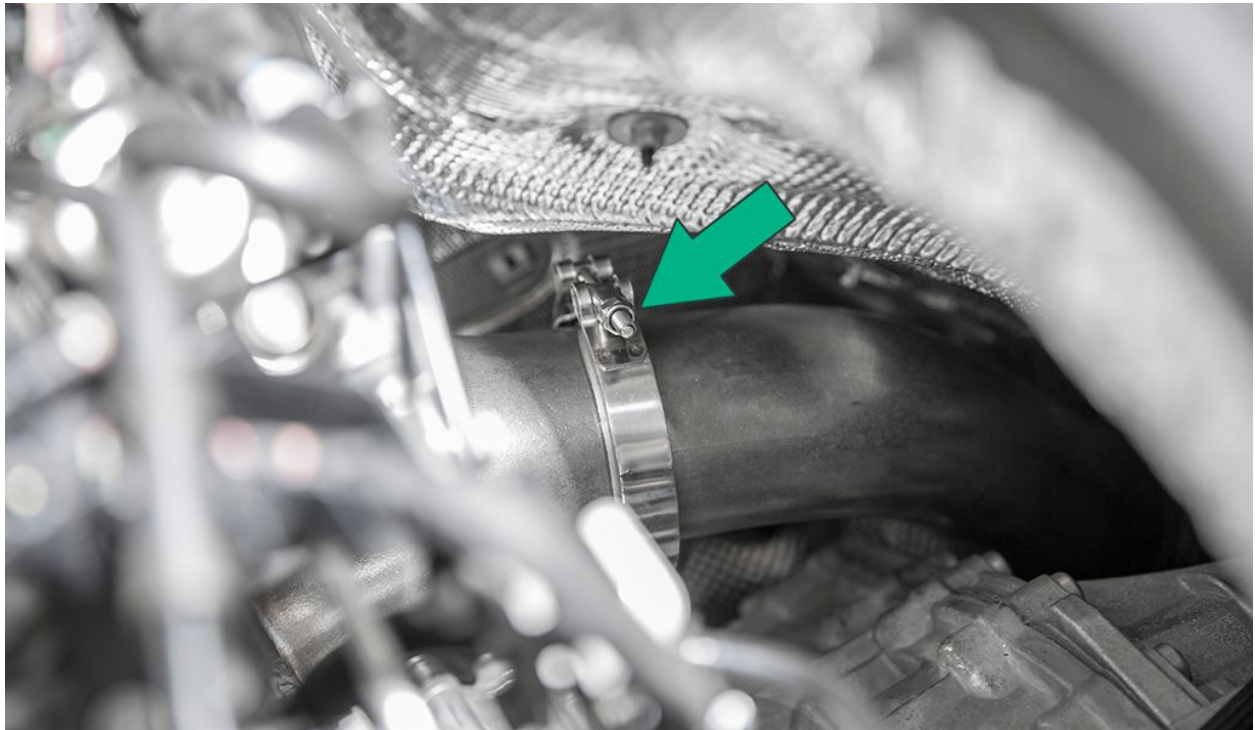


Install the mid-pipe into place between the flex section and catback. Adjust so that everything sits even, seated, and without binding or drooping. Do not tighten clamps in this step.





Coat the threads on the supplied v-band clamp with anti-seize. Install it onto the Cat and flex section. Tighten firmly with an 11mm socket.



Double check all slip fits are properly aligned, then tighten all 3 exhaust clamps. *Note: Exhaust clamps need to be very tight, they must compress the tubing to fully seal slip fits. The torque spec is 50 ft-lb.*



Reinstall your air intake and factory engine cover.



Start your car and inspect for any exhaust leaks. After driving the car for 1-2 days, verify all bolts, nuts, and clamps are tight, exhaust is sitting straight, and there is no excessive pulling on



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