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**IE VW & Audi MQB Performance Cast Downpipe (AWD) Install Guide**  
**Part Number: IEEXCK1**

Thank you for purchasing another high quality Integrated Engineering product! This instruction guide is used for installation of IE's Cast Downpipe System for VW MK7 Golf R & Audi MQB A3, S3, TT, TTS 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.

**Included Components:**

- 1X Downpipe section
- 1X Midpipe section
- 1X Slip-fit adapter
- 2X Slip-fit adapter exhaust clamps
- 1X V-band clamp
- 1X Downpipe Mount Bracket
- 1X Downpipe mount bolt
- 1X Downpipe mount nut
- 2X Downpipe mount washers

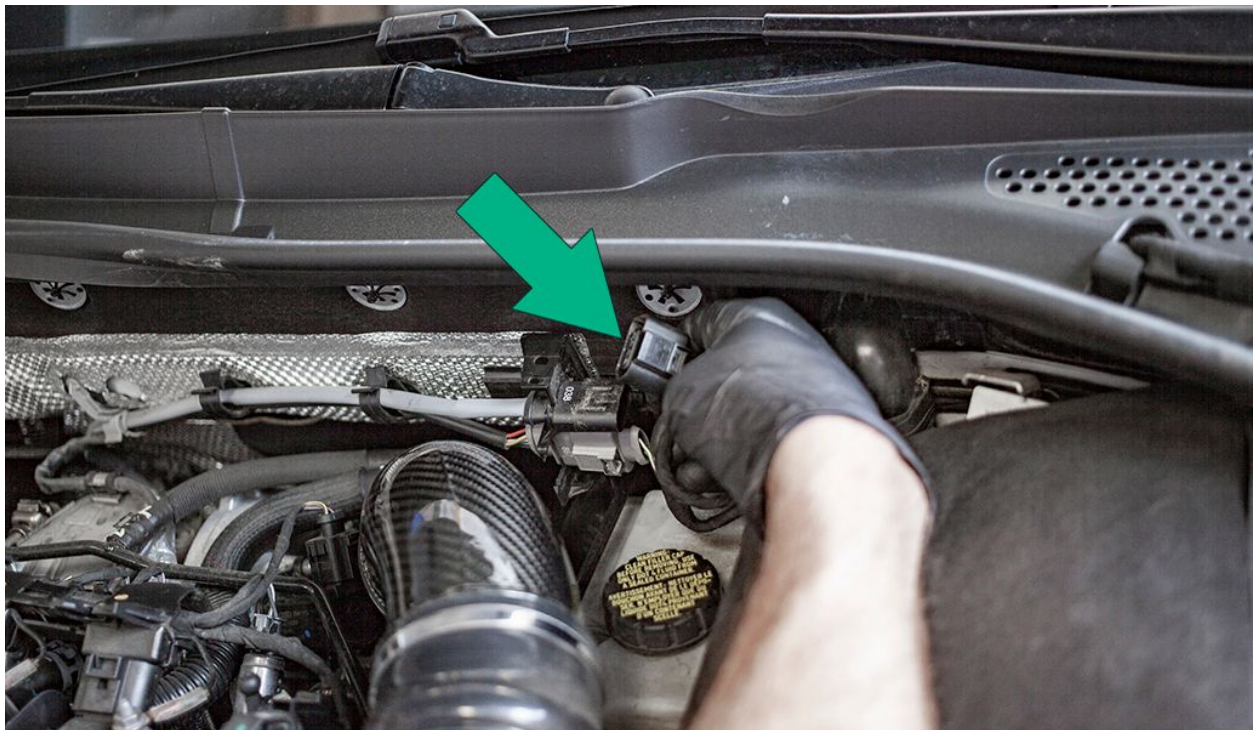
*Before you begin, open your IE Downpipe Kit, inspect all components, and verify their quantities.*



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 disconnecting the black O2 sensor connector above the intake.

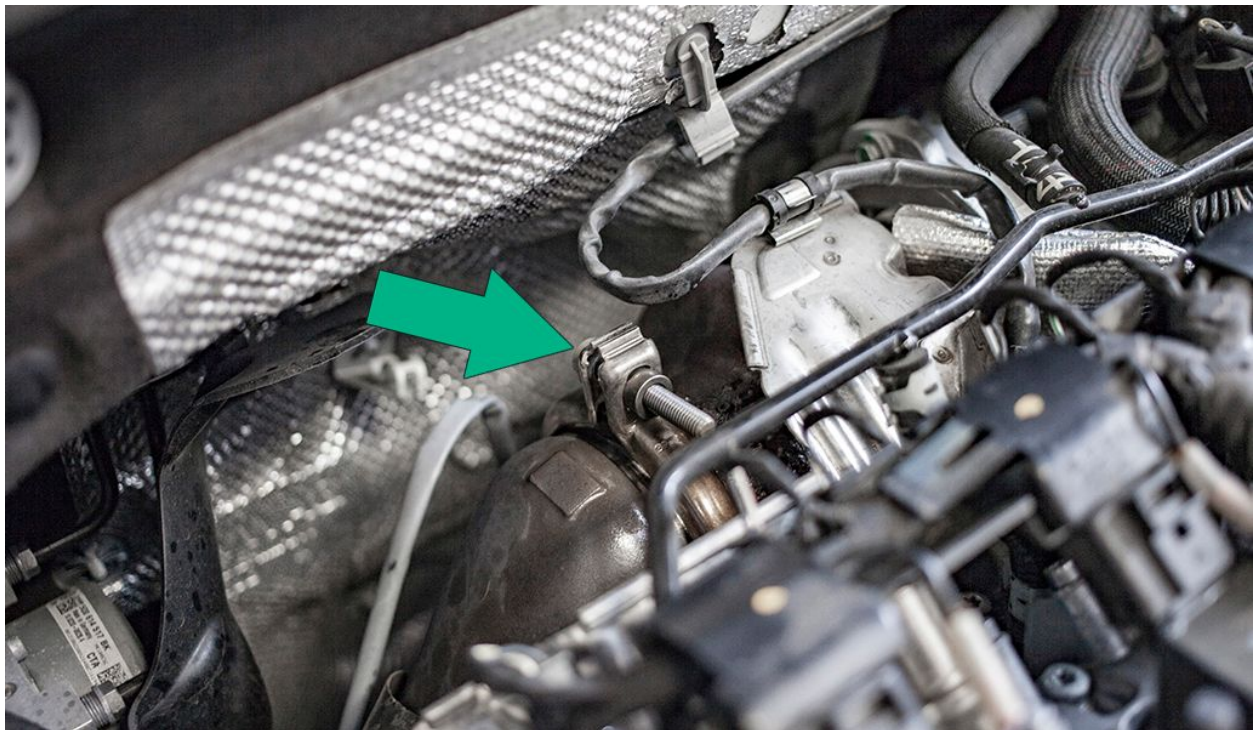




Carefully unclip the O2 sensor harness from the firewall clips and safely lay it out of the way.

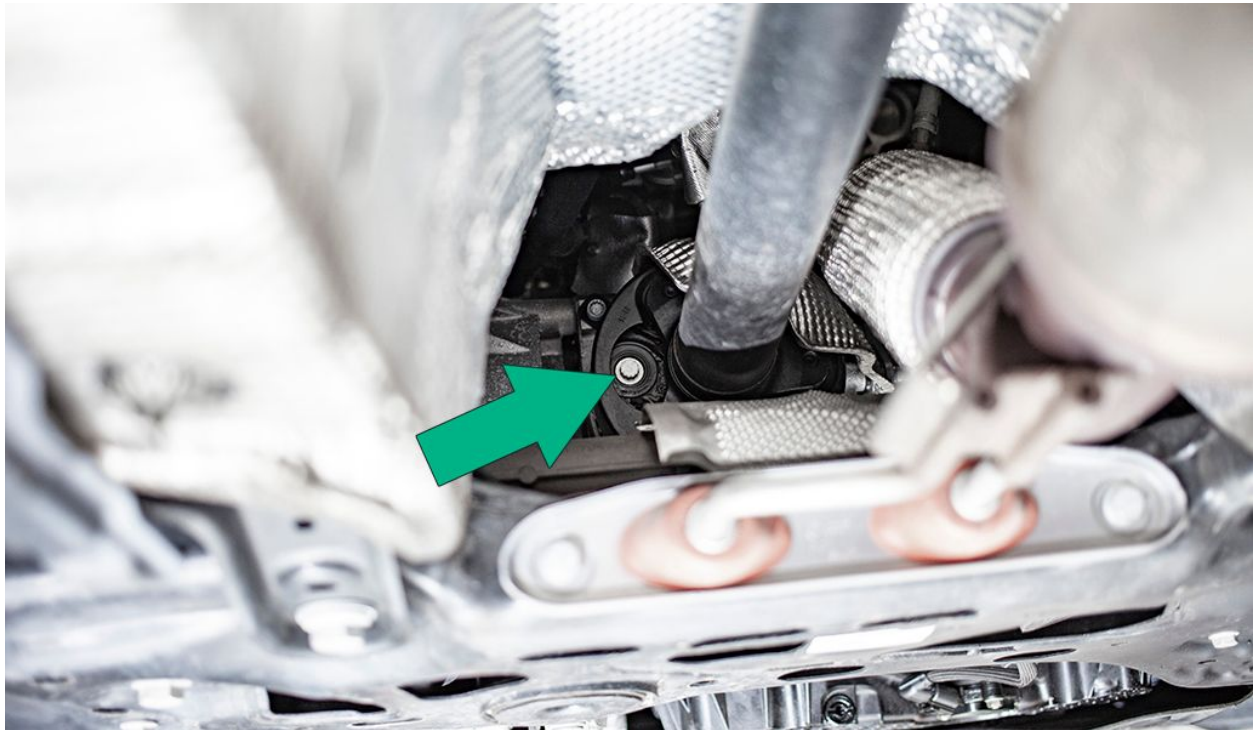


Using a 6mm allen bit, remove the factory v band clamp bolt and v band clamp. **Keep bolt & clamp for reinstallation.**

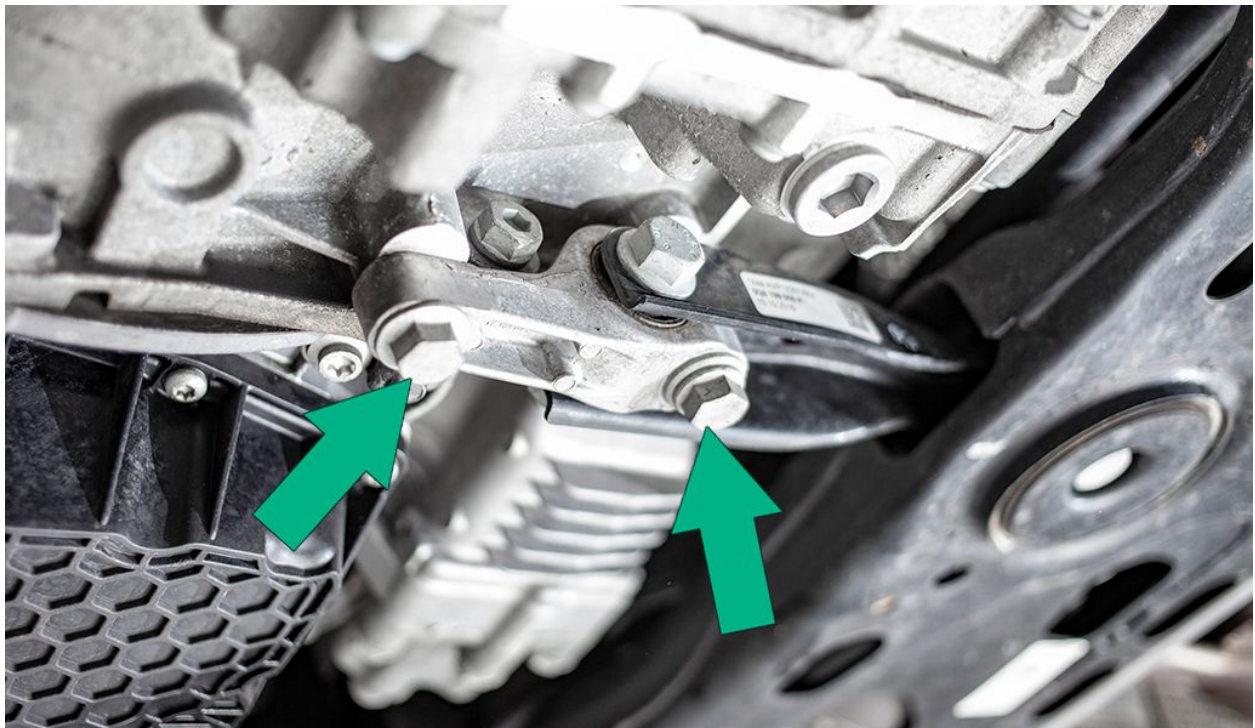




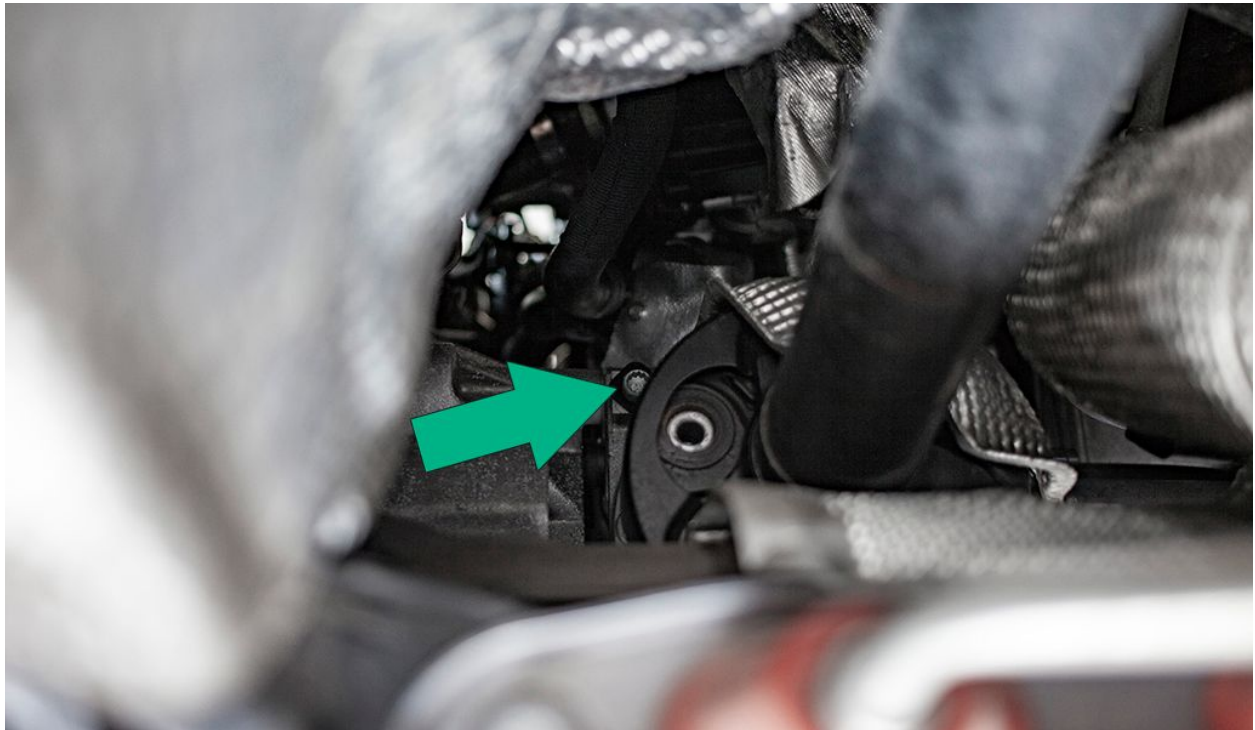
Gain access to the bottom of the vehicle, rotate the drive shaft and remove the 3 bolts with a 10mm 12 point socket. **NOTE: Some vehicles may require removal of belly pans for access.**



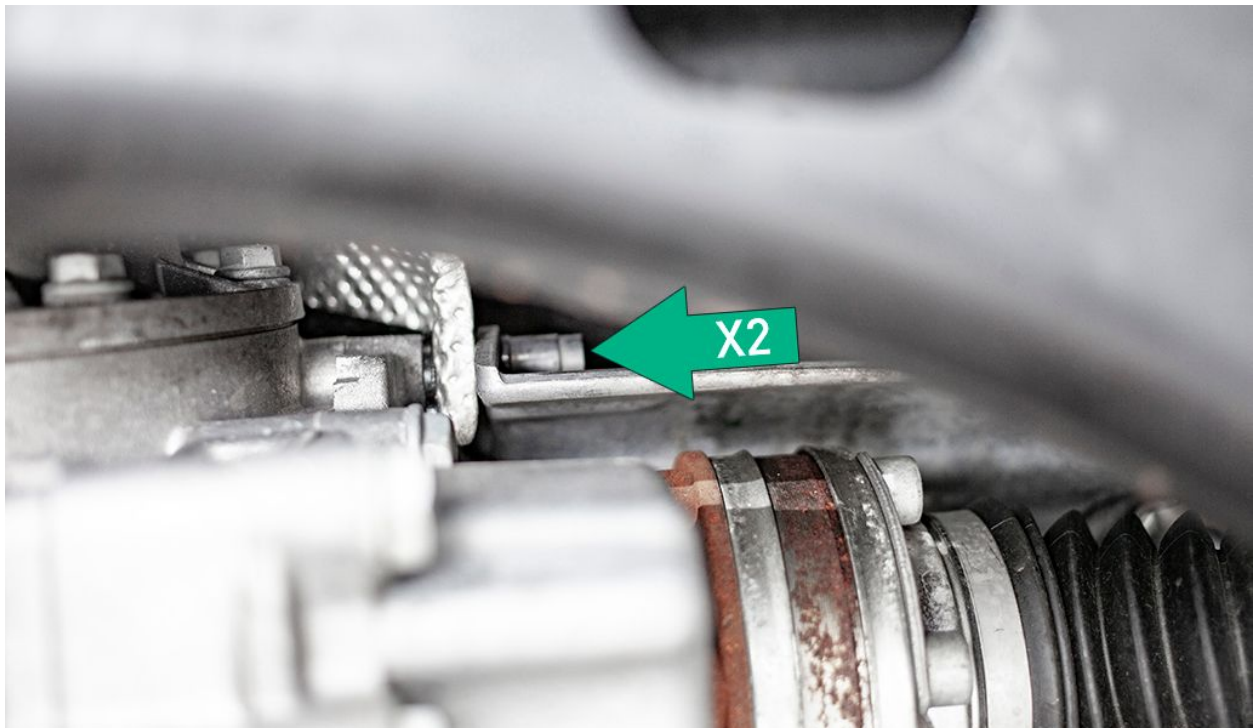
Remove both transmission mount bolts with a 16mm to allow engine movement for removal/install of downpipes.



Using a 10mm triple square socket, remove the bolt from the left side of the differential heatshield.



Remove both right axle heatshield bolts with 8mm allen bit. *(These bolts are very difficult to see for removal, use your hand to trace the edge of the heatshield to find both bolts for removal)*

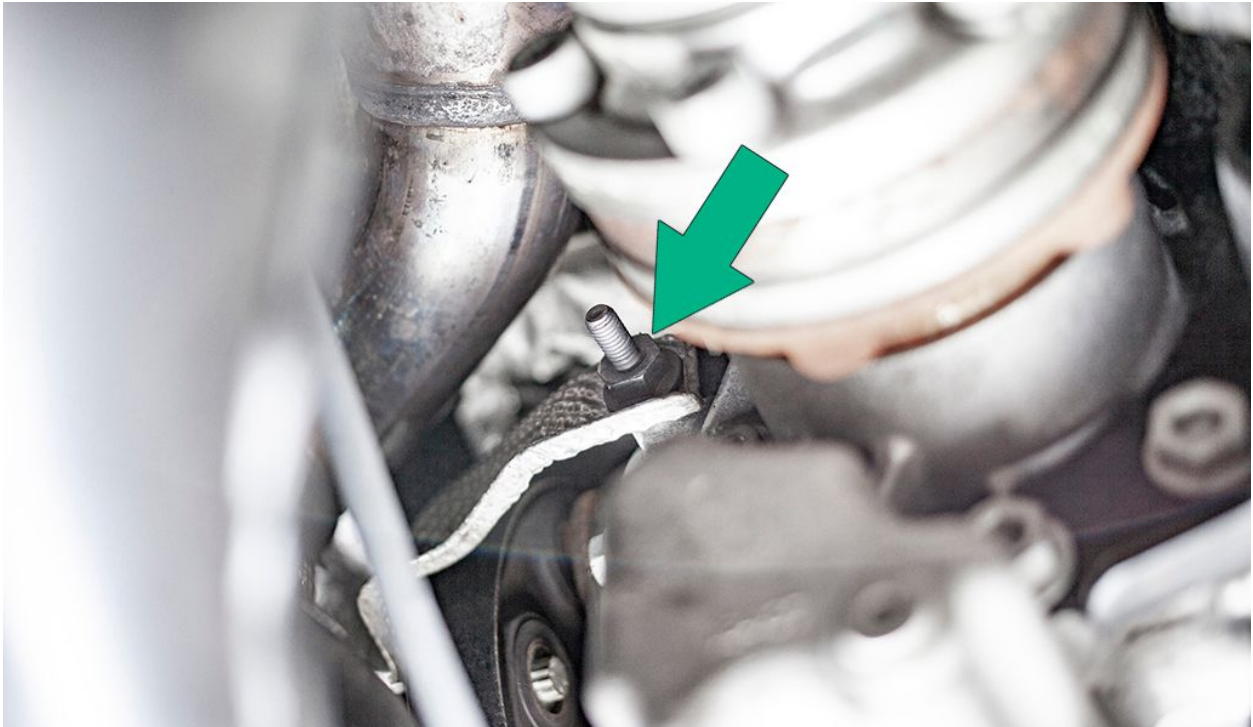




With both allen bolts removed, remove the right axle heatshield from vehicle.



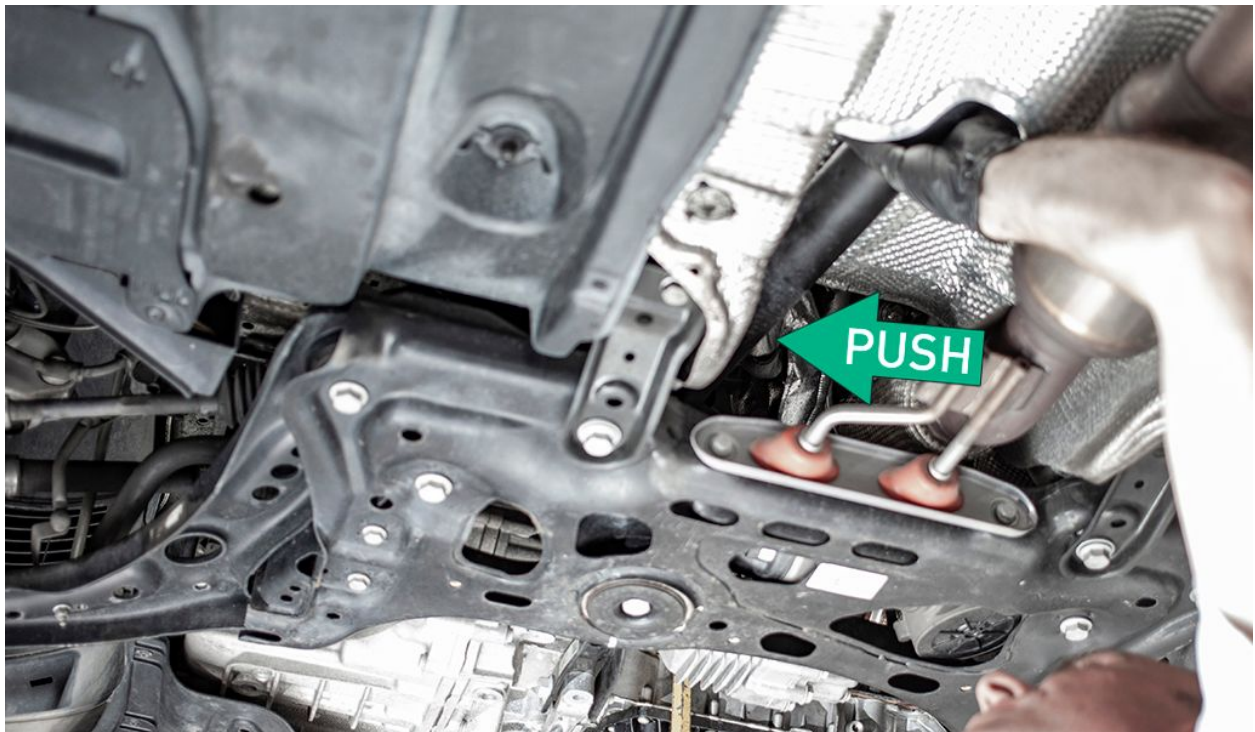
With heatshield out of the way, remove the remaining diff heatshield nut with a 16mm socket.



Remove the diff heatshield from the vehicle by pulling it directly out from the transmission tunnel.

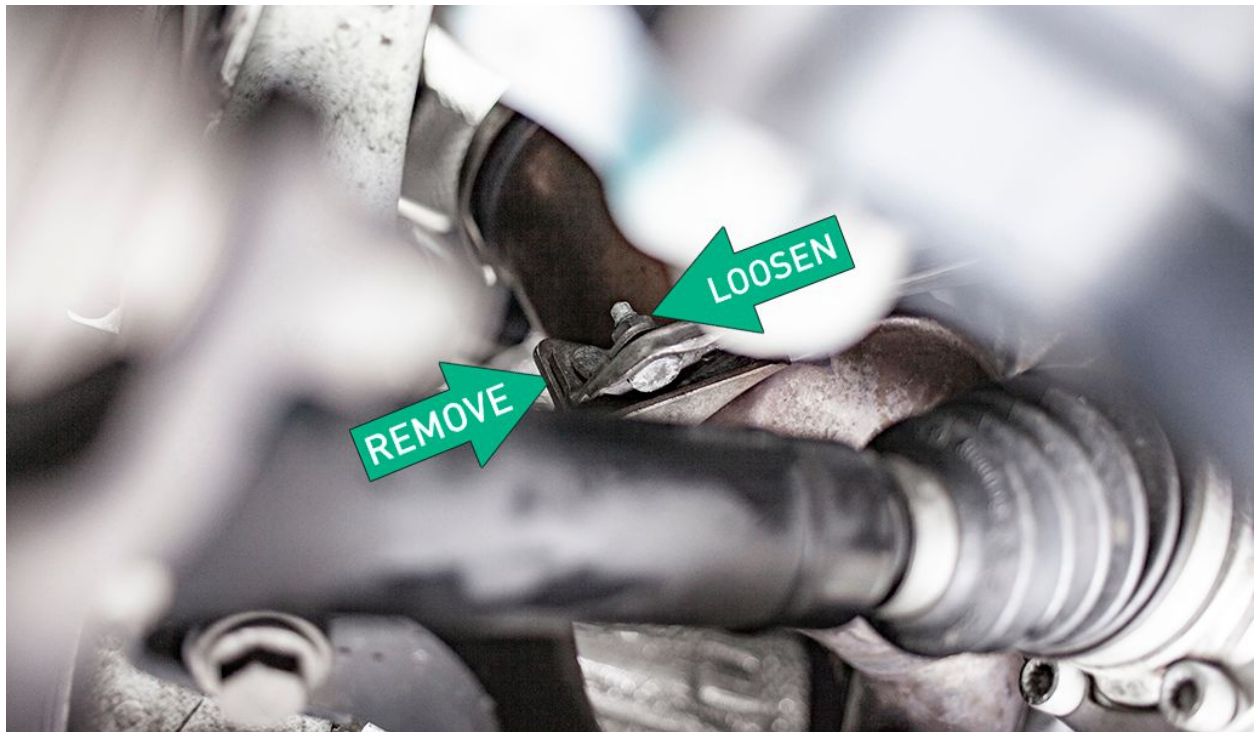


Using a crowbar for leverage, rock the engine forward and push the driveshaft out of the way of the downpipe.

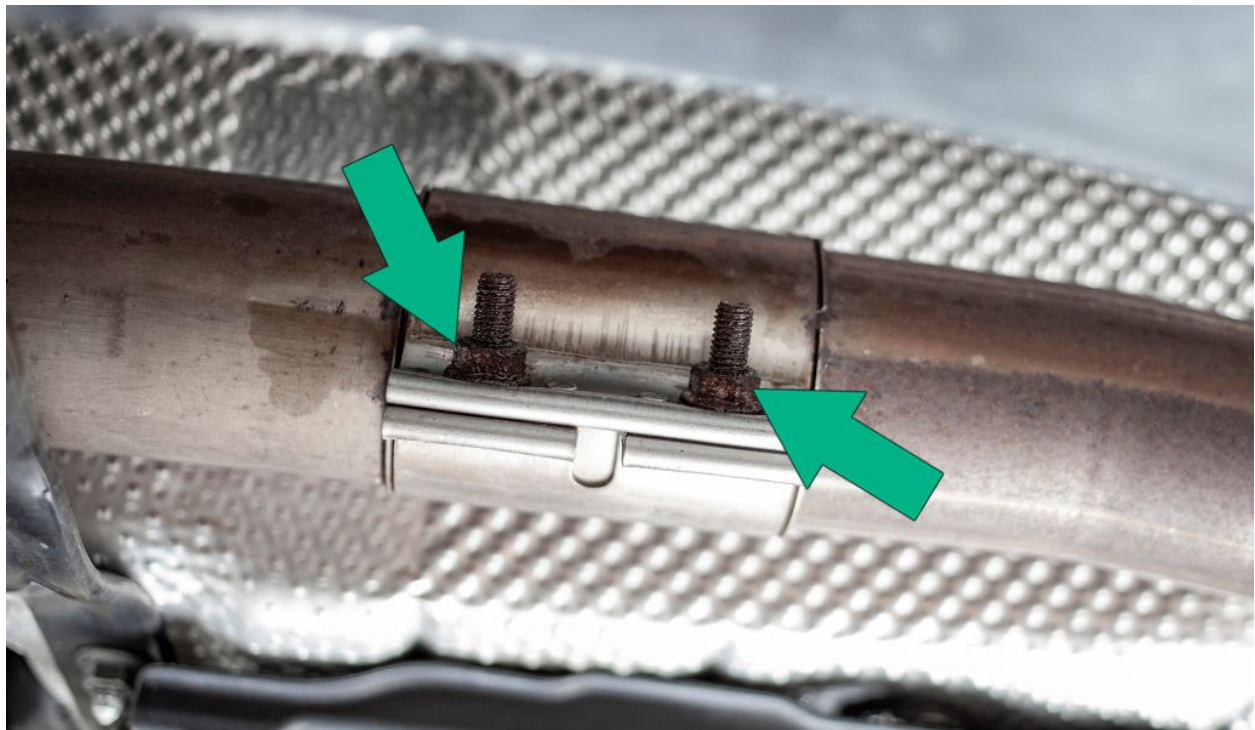




Using a 13mm socket remove the rear nut and loosen the upper nut from the downpipe support bracket located above the right side axle.



Loosen both catback exhaust clamp nuts with 13mm socket.

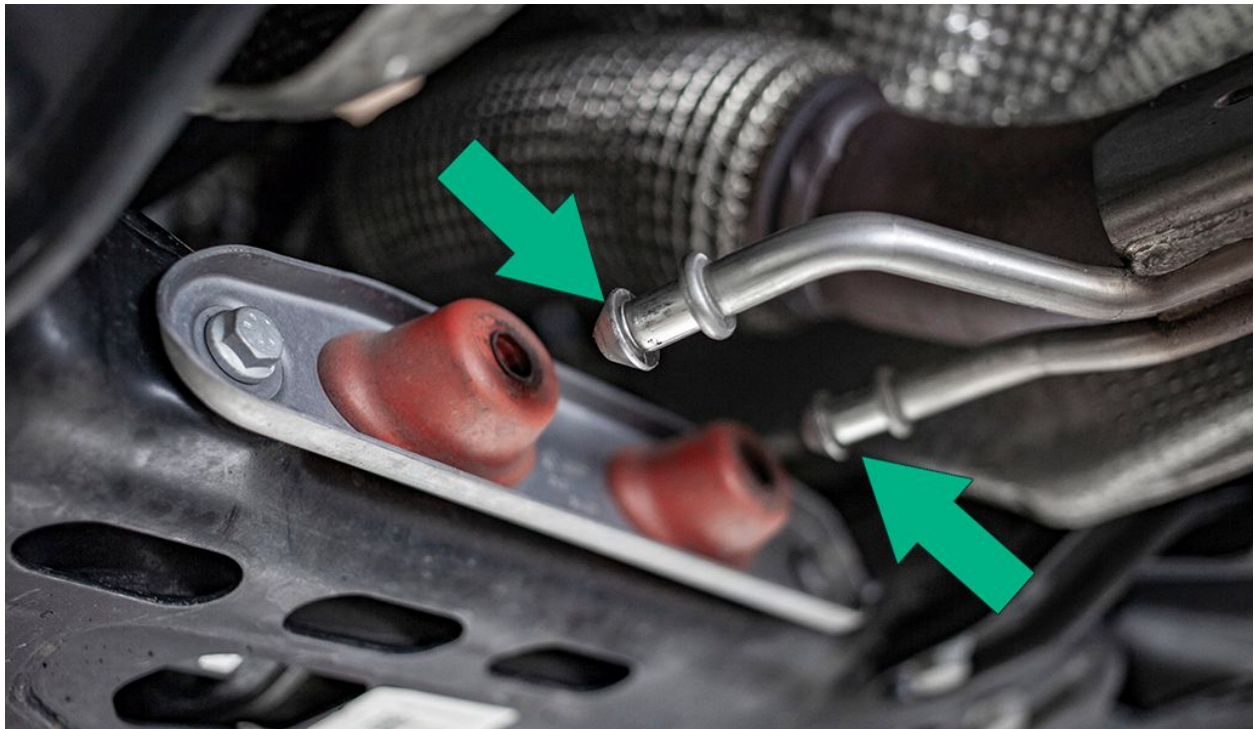




Disconnect downpipe from catback and remove exhaust band clamp.

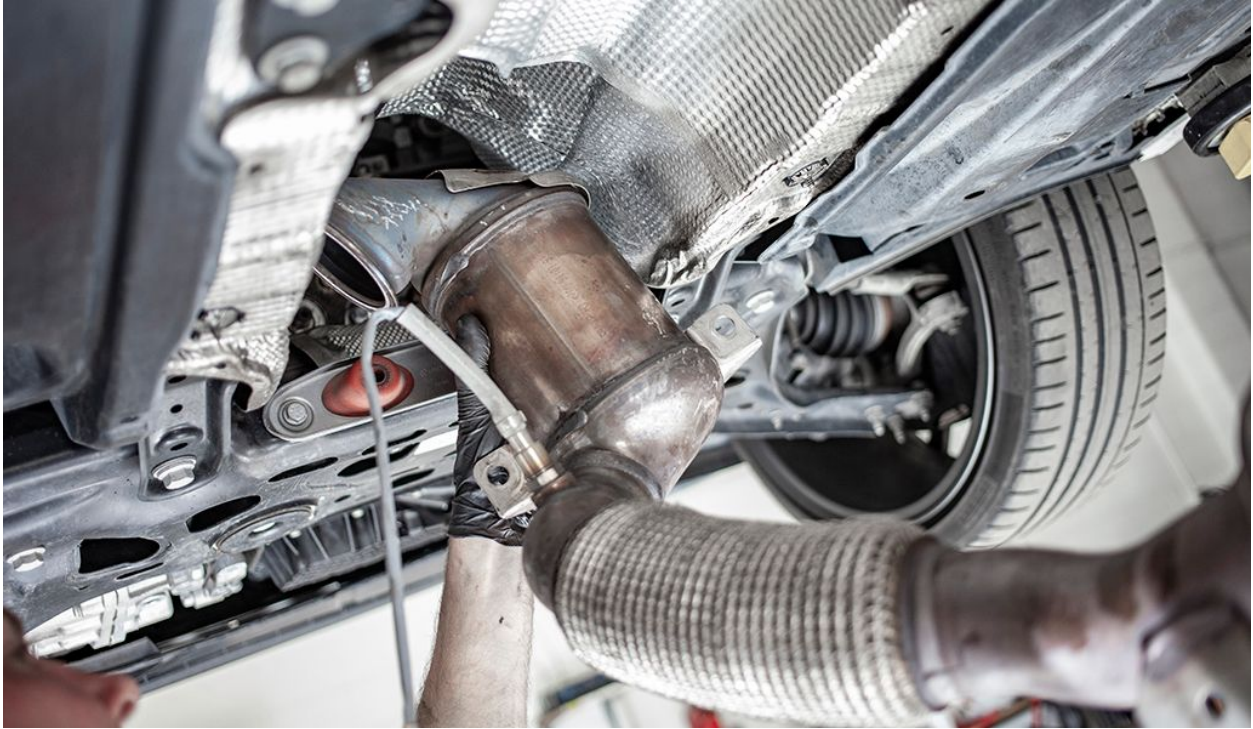


Carefully pry to remove both downpipe hangers from the push grommets.

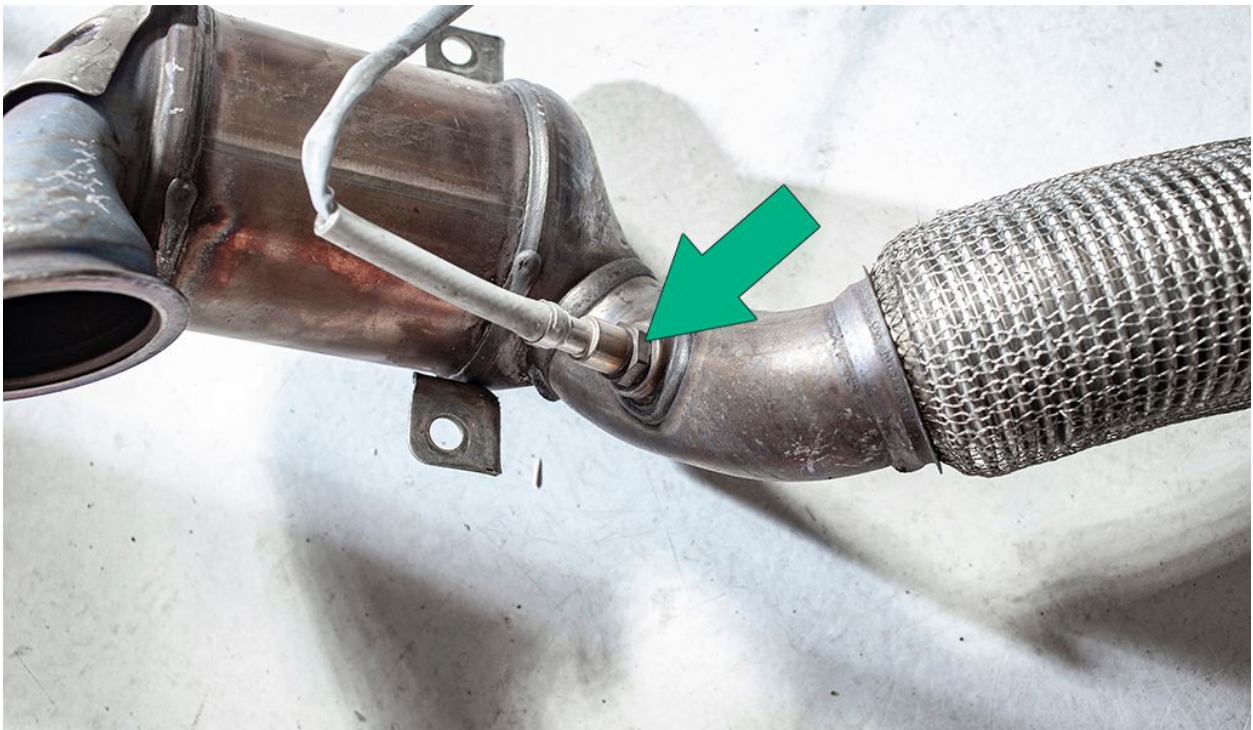




Carefully pull the downpipe away from the turbo charger then slowly rotate counter-clockwise while pulling down to remove from vehicle.

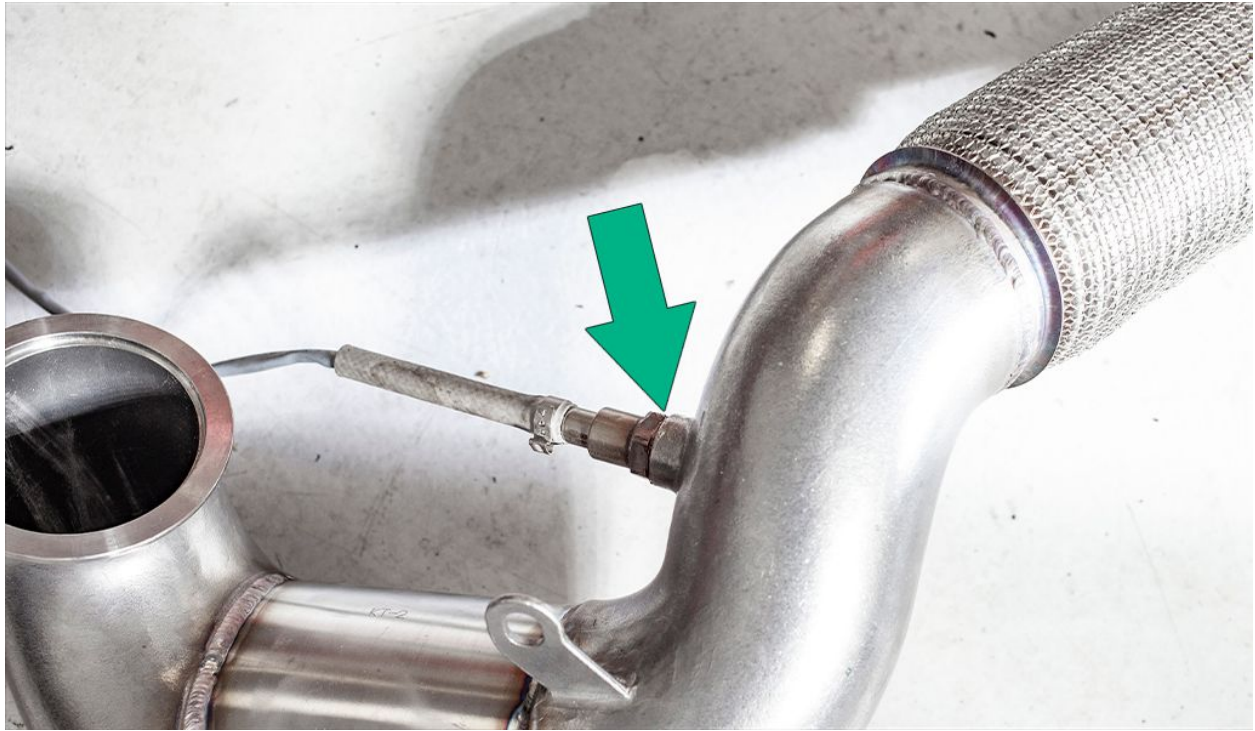


Using a 22mm wrench or O2 sensor socket, remove the O2 sensor from the factory downpipe .

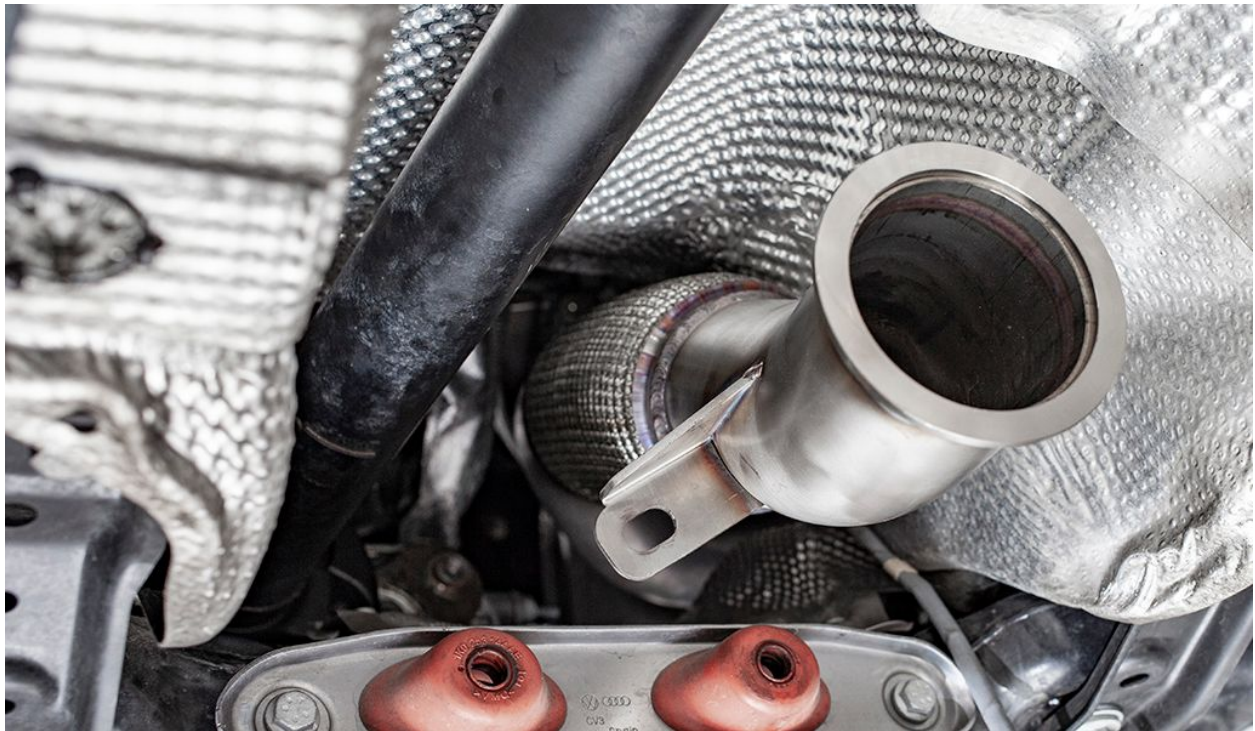




Reinstall O2 sensor into the new IE downpipe with a 22mm wrench or O2 sensor socket.



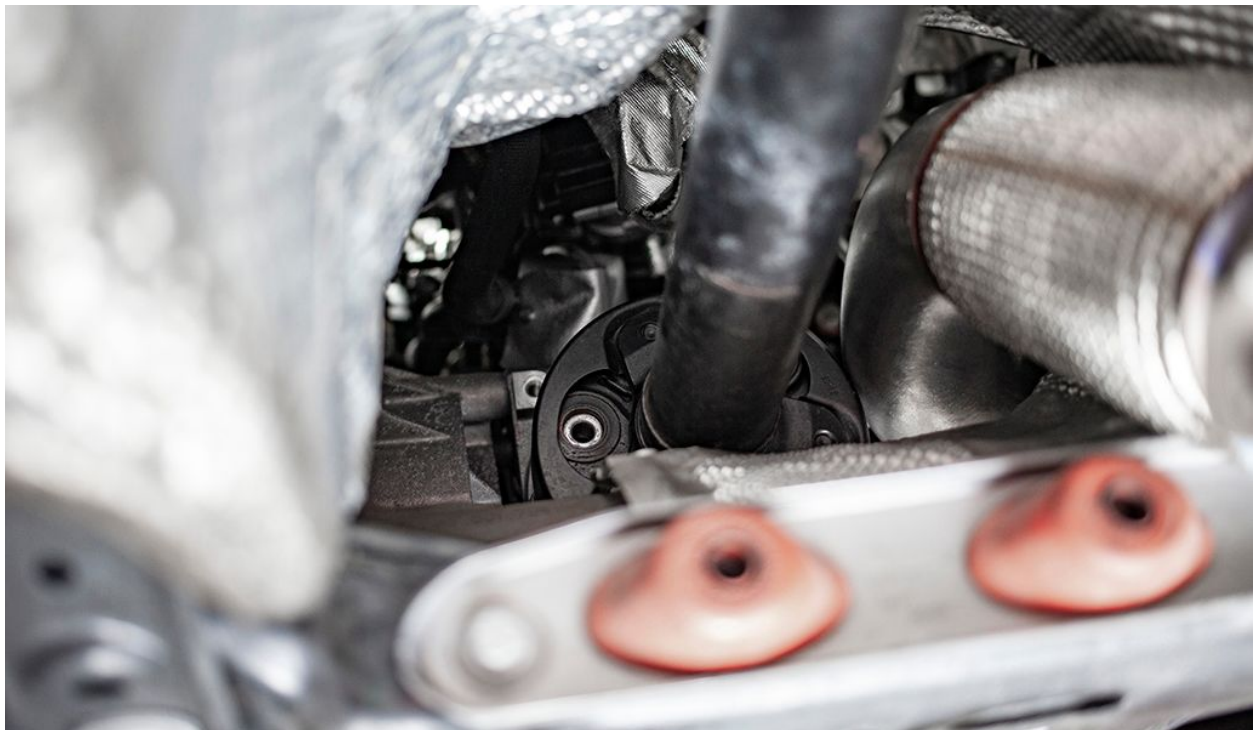
Carefully rotate the new IE downpipe into place and seat against the turbo flange.



Install factory v band clamp and bolt to the IE downpipe and turbocharger. ***Hand tighten bolt only.***

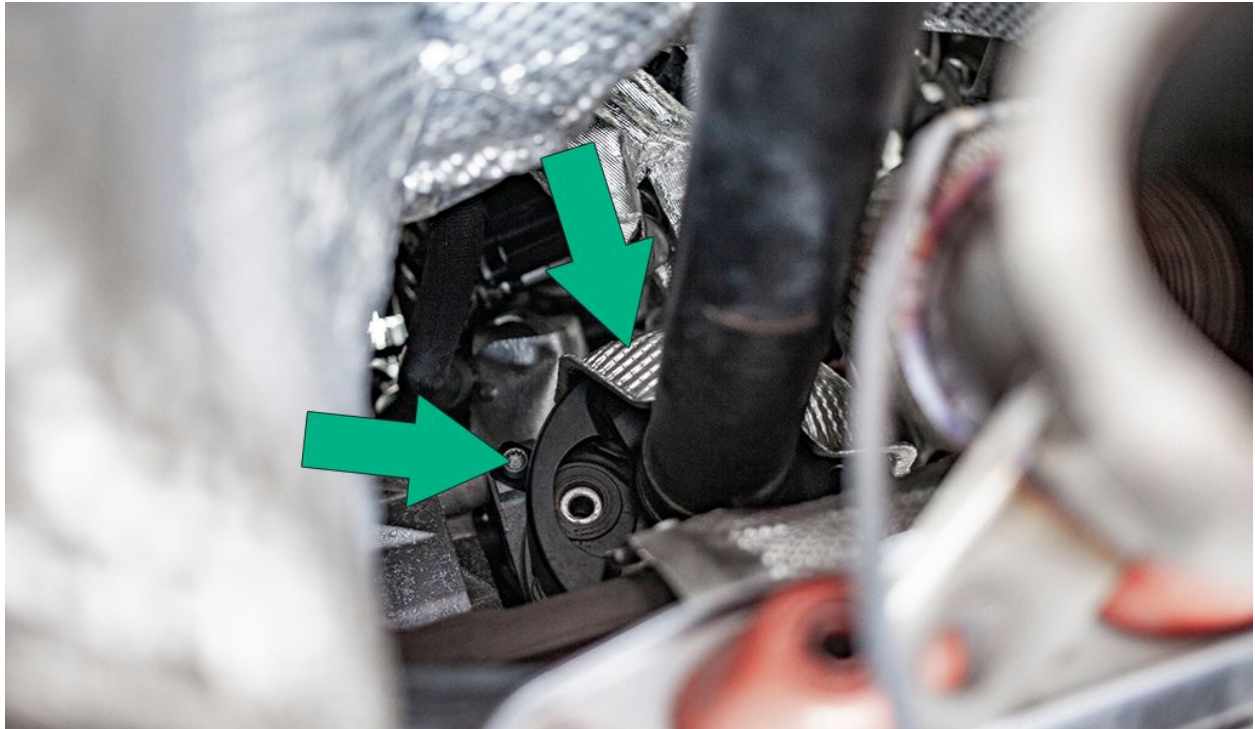


With downpipe in place, rock engine forward again and seat driveshaft back into place.





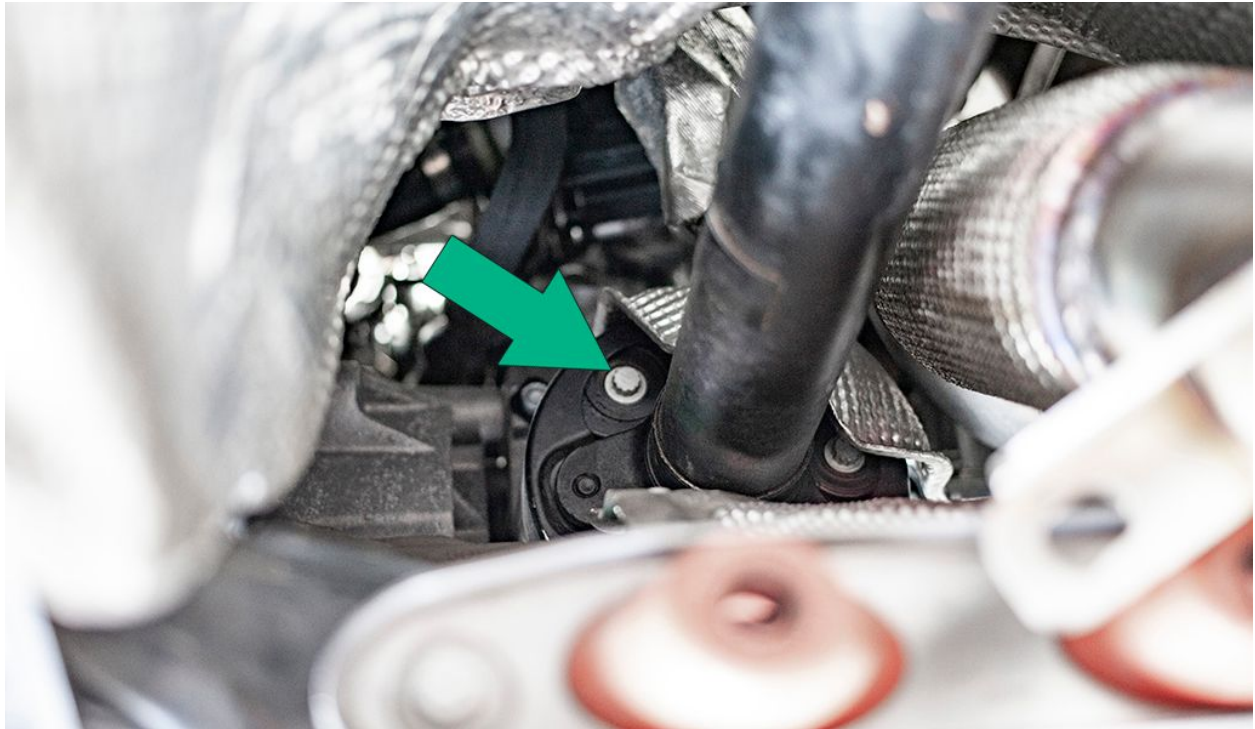
Reinstall diff heatshield, 10mm triple square bolt and 16mm nut .



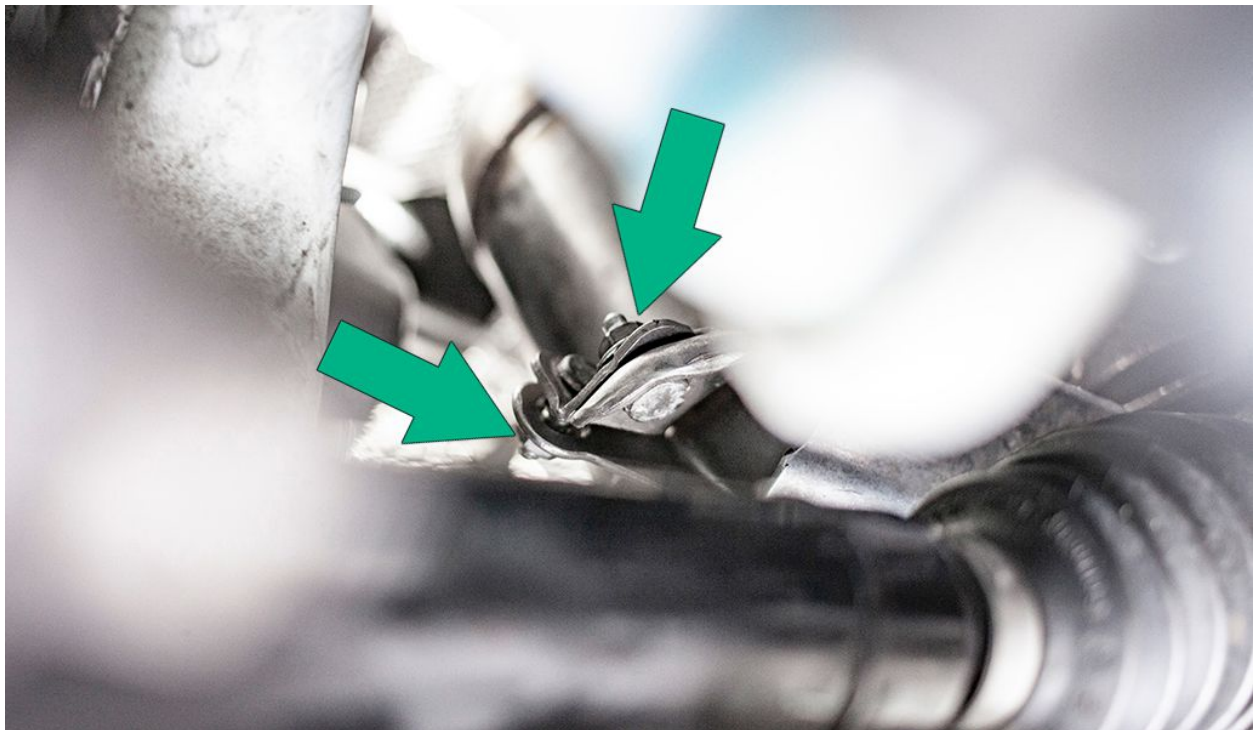
Reinstall right axle heatshield with both 8mm allen bolts.



Rotate driveshaft and reinstall all three 10mm 12 point bolts.

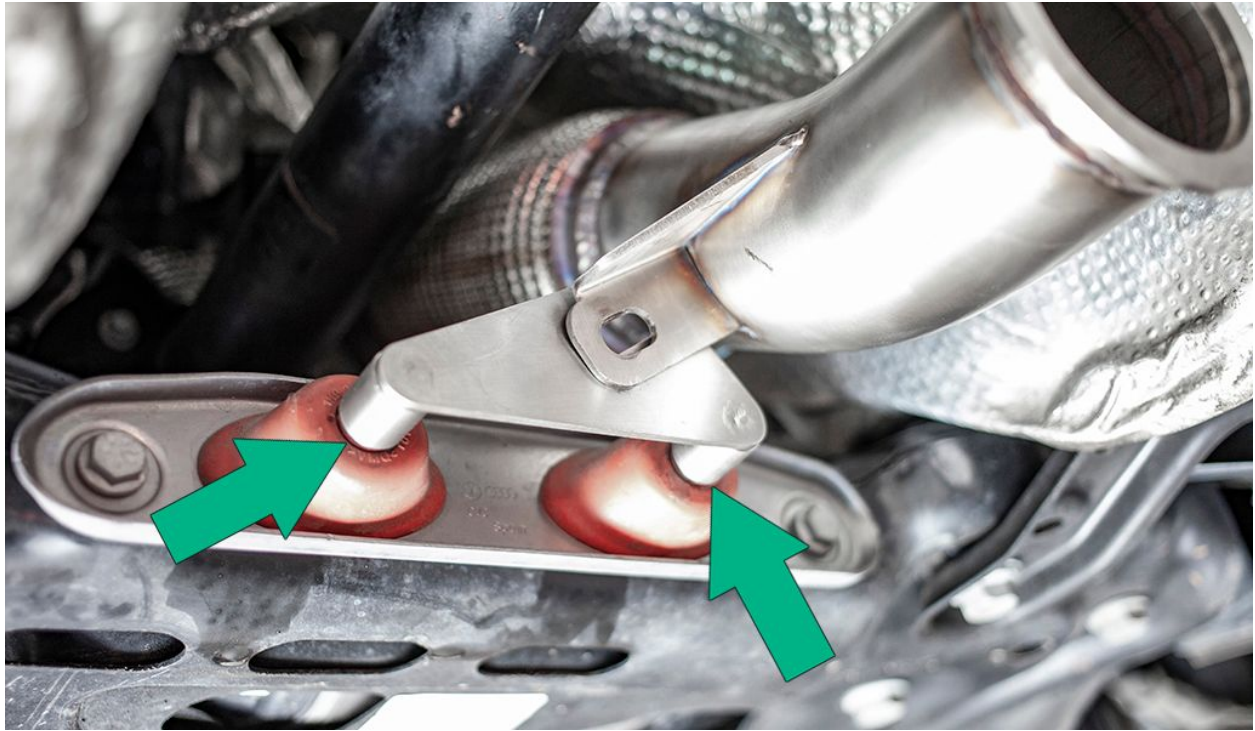


Slide IE downpipe over downpipe mount bracket and **hand tighten** both 13mm nuts.

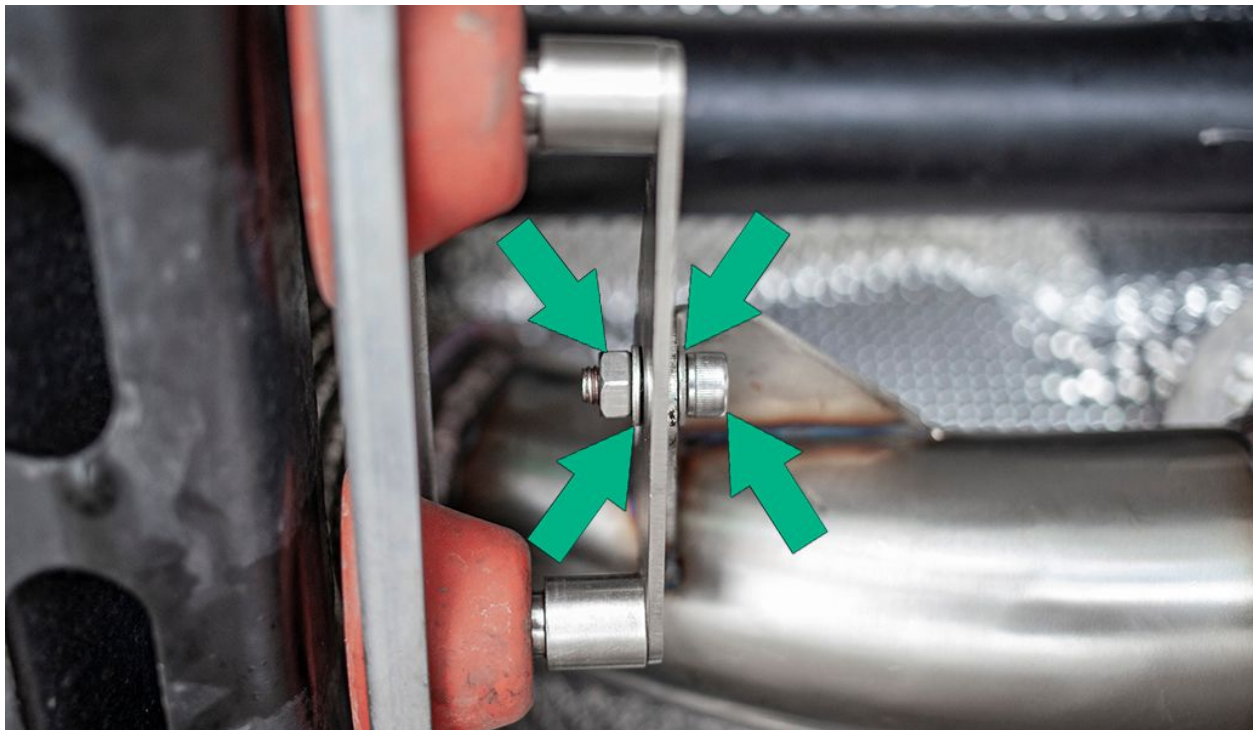




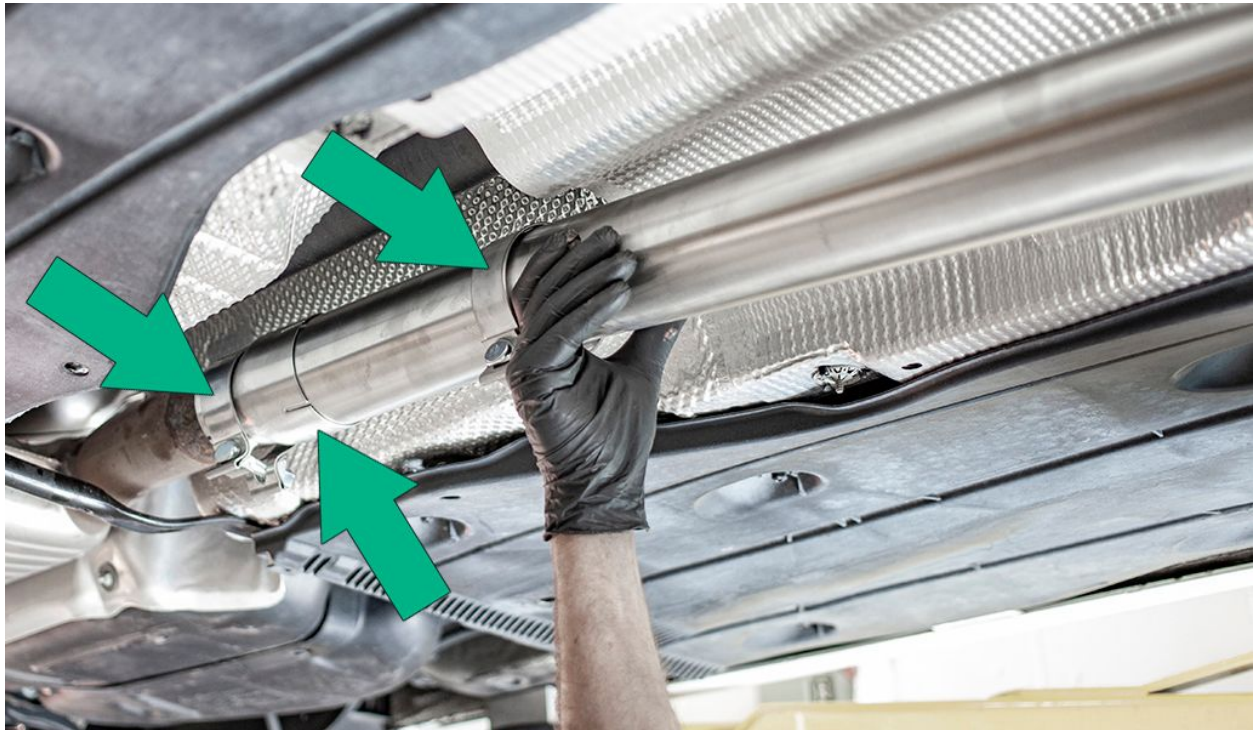
Seat IE downpipe mount bracket hangers into the factory grommets. Bracket should sit behind the downpipe bracket as seen below.



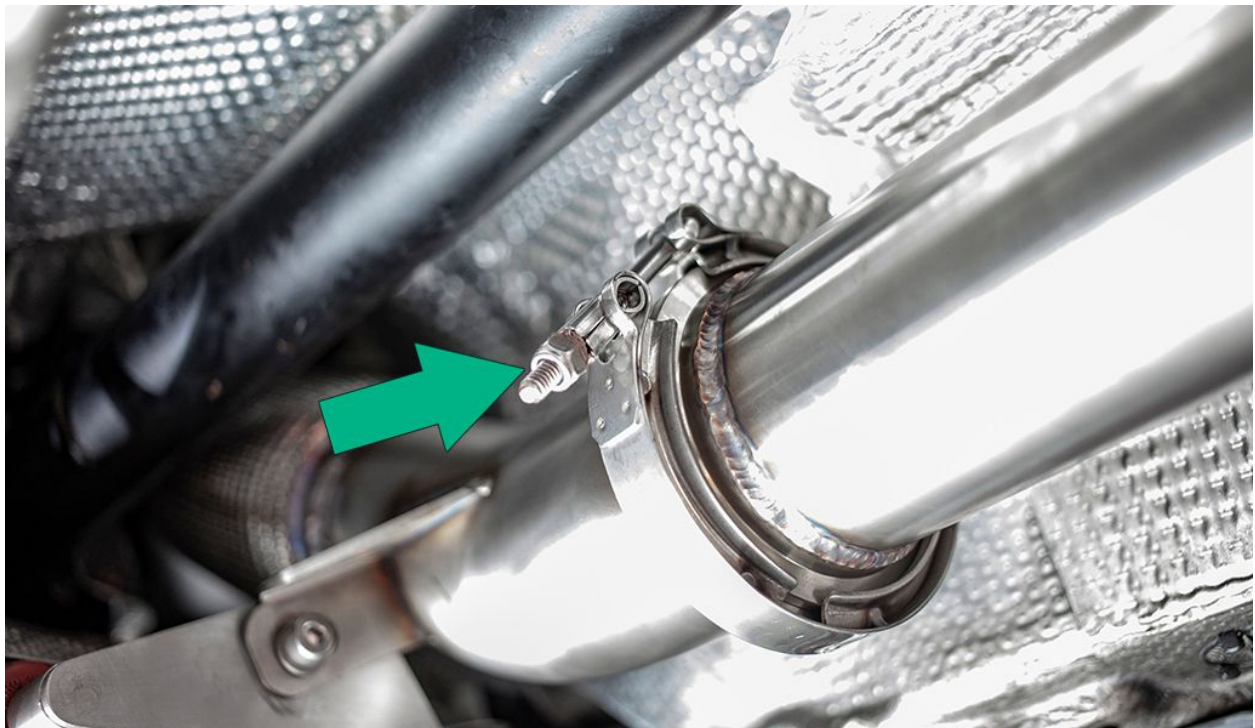
Install and tighten the included allen bolt, washers, and nut as seen below.



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

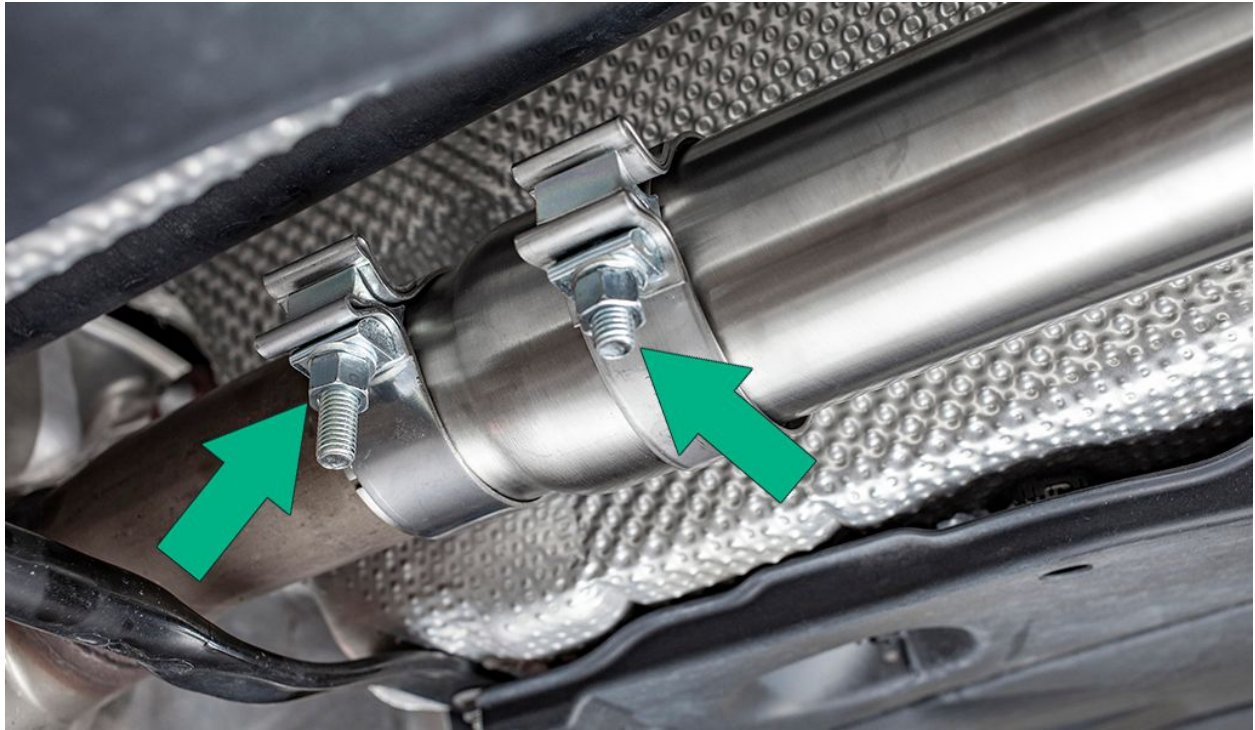


Install the supplied v-band clamp to the downpipe and midpipe flanges. Tighten firmly with an 11mm socket.

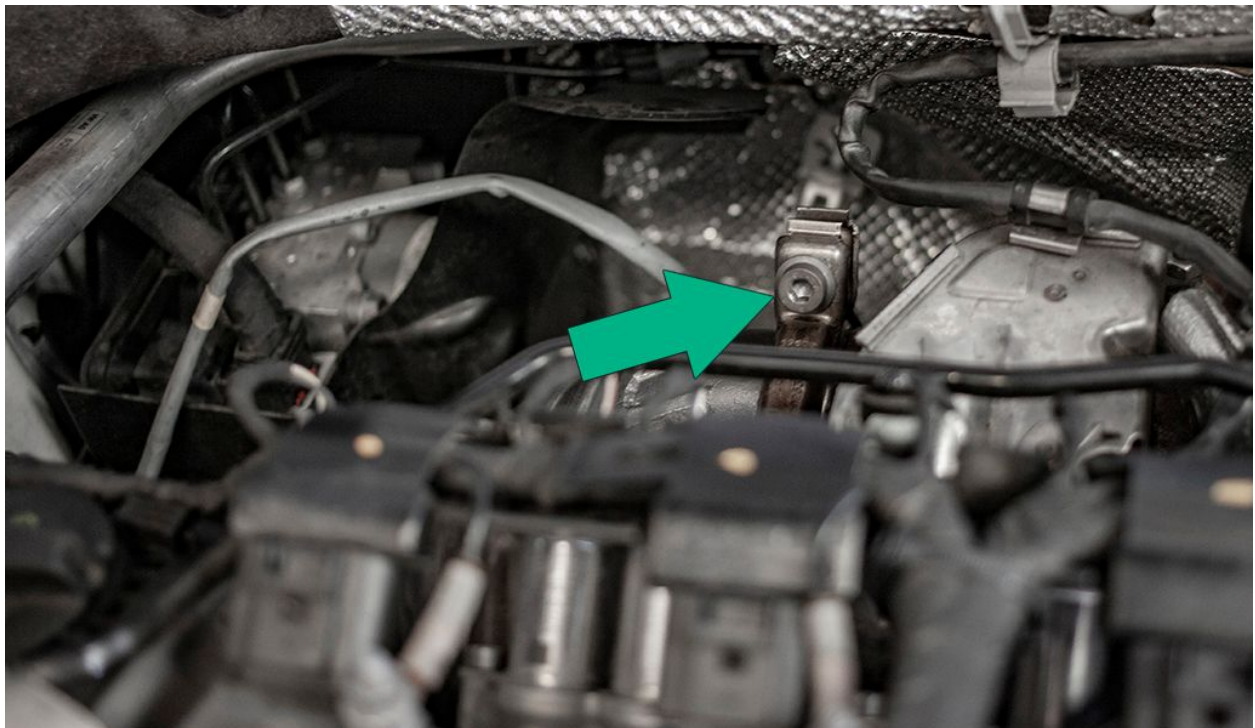




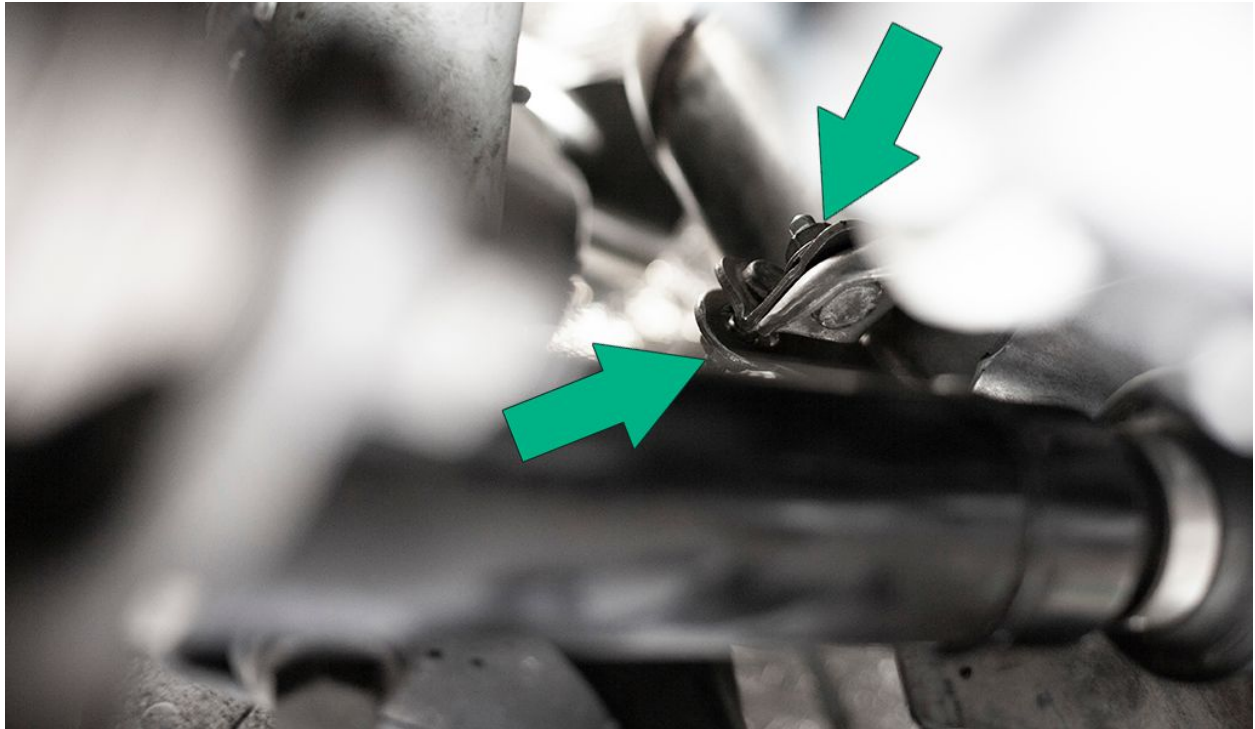
Double check that the midpipe and slip fit is properly aligned, then tighten both exhaust clamps with 15mm socket. *Note: Exhaust clamps need to be very tight, they warp to fully seal the slip-fit adapters. We recommend using an impact to completely seat them.*



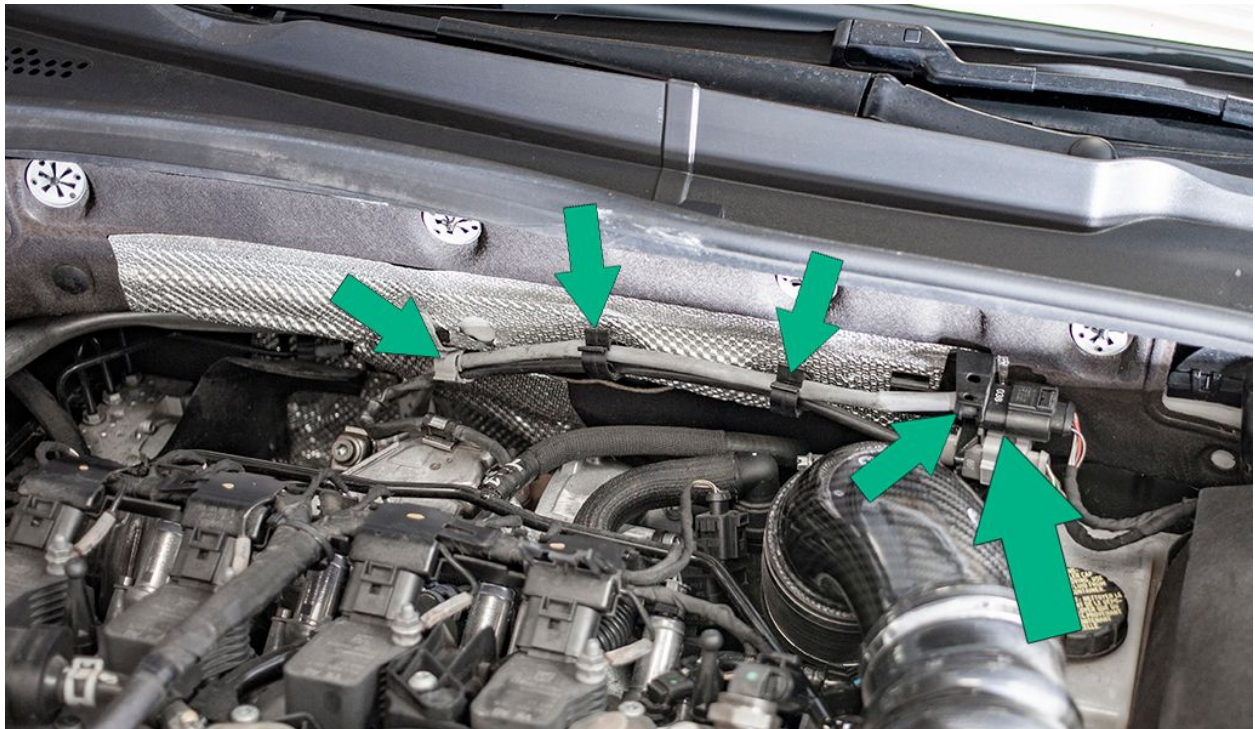
Tighten the downpipe to turbocharger v band bolt with 6mm allen bit.



Completely tighten both downpipe mount bolts with 13mm socket.



Reinstall the O2 sensor harness back into the clips and reconnect to vehicle harness clip .





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 any grommets.



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