



PERFORMANCE BY  
**INTEGRATED  
ENGINEERING**

## IE Audi C8 RS6 & RS7 Catback Exhaust System Installation

PART NUMBER: IEEXCY1

Thank you for purchasing another high-quality Integrated Engineering product! This guide is used for the installation of IE's Catback Exhaust System for the Audi C8 RS6 & RS7. Professional or experienced technician installation is recommended and Integrated Engineering is not responsible for any damage caused by incorrect installation.



## **IEEXCY1 KIT CONTENTS**

- C8 RS6/RS7 Midpipe Driver Side
- C8 RS6/RS7 Midpipe Passenger Side
- C8 RS6/RS7 X-Pipe
- C8 RS6/RS7 Exhaust Tip Driver
- C8 RS6/RS7 Exhaust Tip Passenger
- C8 RS6/RS7 Catback Center Section - No Muffler
- C8 RS6/RS7 Catback Rear Section Driver
- (2) 2.5" (63.5mm) OEM Style Exhaust Butt Clamp
- (8) 3" (76.2mm) OEM Style Exhaust Butt Clamp
- (2) 80MM Band Clamp for Exh Tips
- (2) 66MM Band Clamp for Exh Tips
- (2) Genuine Audi VW Exhaust Gasket
- (2) Audi VW Copper Self Locking Hex Nut, M8 x 1.25

## **REQUIRED TOOLS**

- T25 Torx
- T20 torx
- T30 torx
- 10mm socket
- 12mm socket
- 13mm socket
- 15mm socket
- 16mm socket
- 21mm socket
- M10 triple square
- M12 triple square
- M12 triple square
- Trans Jack
- O2 Sensor Socket or 22mm socket
- Socket extensions
- Wobble socket

Before you begin, park your vehicle in a safe and level location. Allow plenty of time for the engine bay to completely cool before beginning the installation procedure. Unbox your IE Catback Exhaust to verify the contents and quantities and check for any possible shipping damage. Prepare your work space and locate the required tools listed above before starting.

IE recommends pre-reading the entire installation guide ahead of your install to both prepare yourself for each step and to make sure you don't have any questions before beginning. If you have any questions or need clarification, please contact our helpful support team specialists at [support@performancebyie.com](mailto:support@performancebyie.com)

Release the hood lever and open hood, making sure the engine is cooled down before beginning.



Remove the engine cover by pulling straight up off the four mounting posts.



Remove four T30 Bolts that secure the heat shield.



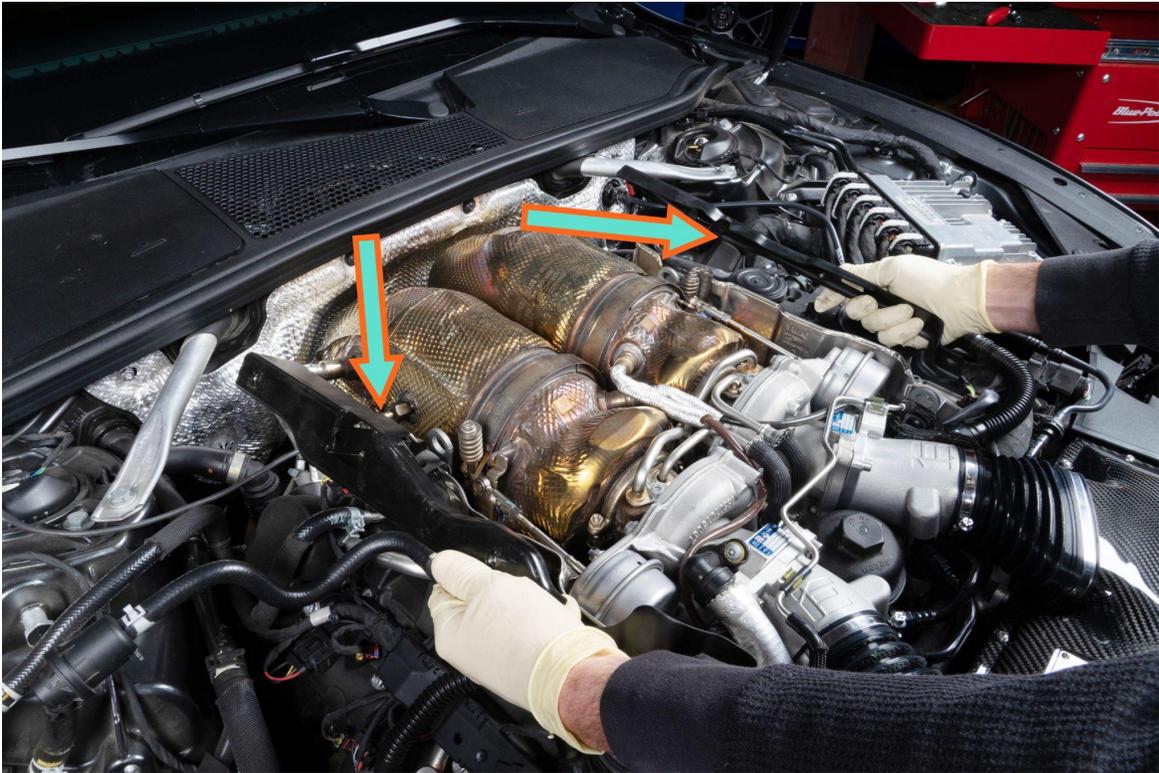
Remove Heat Shield from engine bay.



Remove the four Engine Cover mounting studs using 15mm socket.



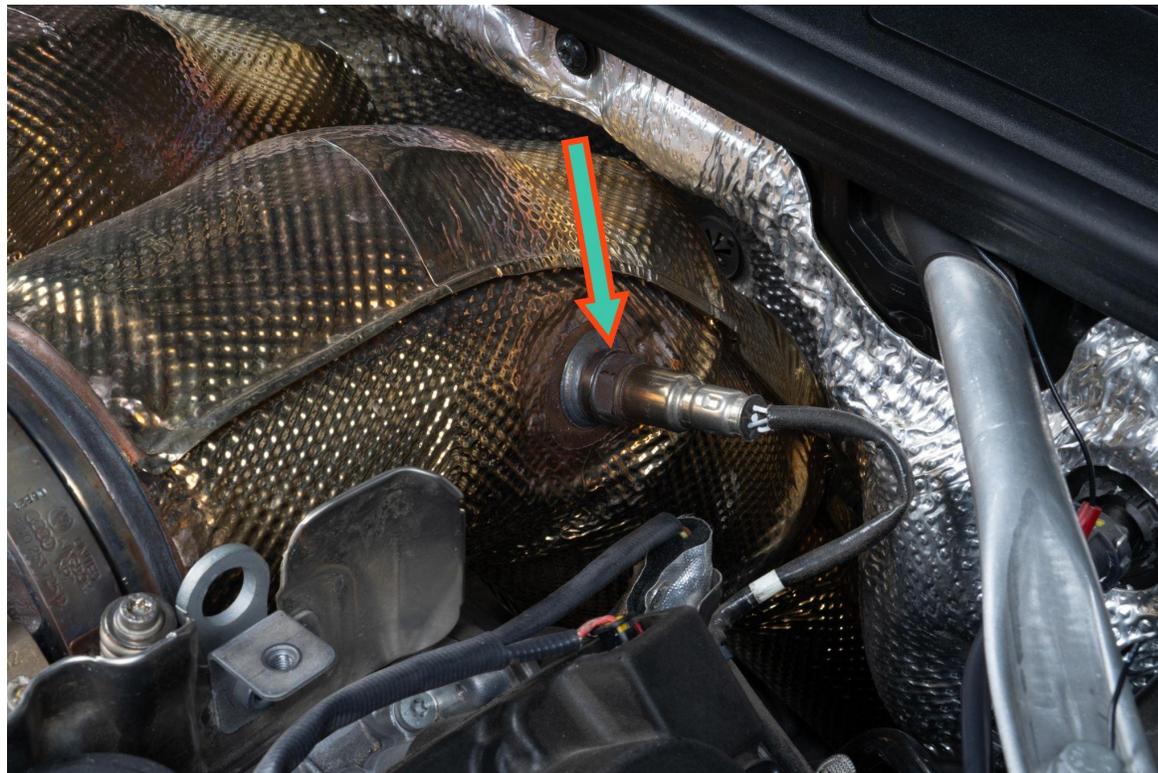
Once the engine cover mounting studs have been removed, remove the two engine cover rails.



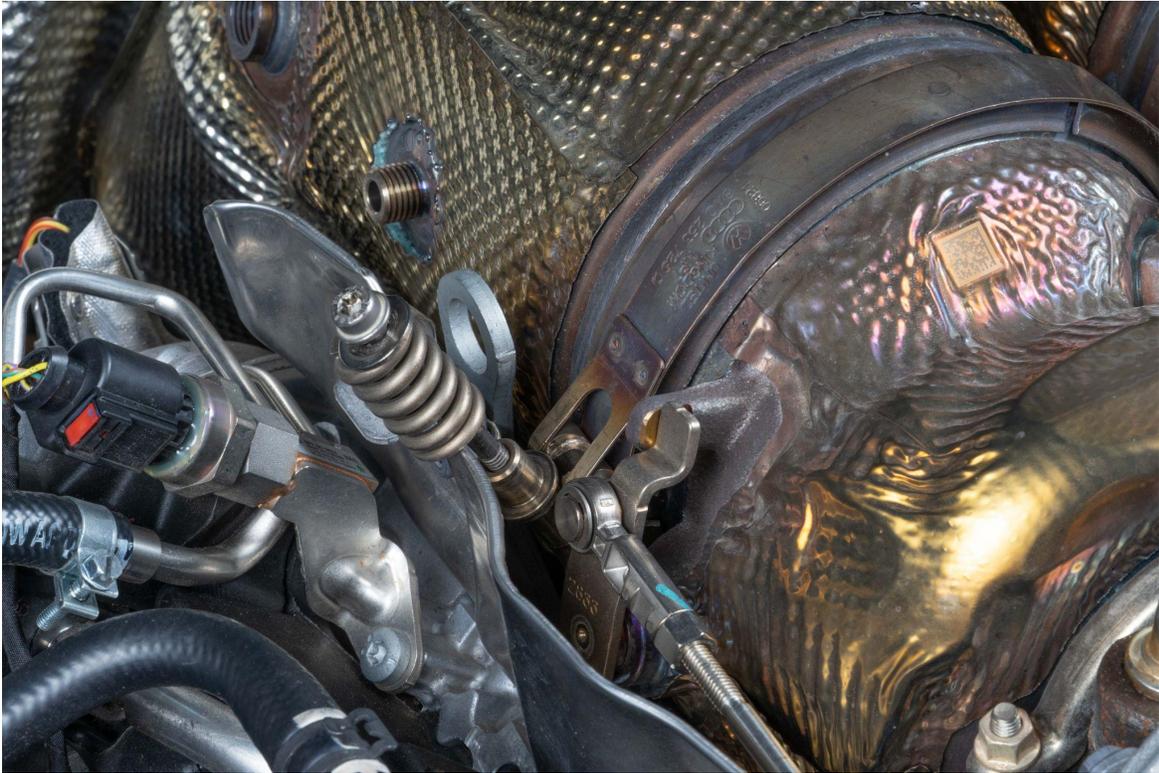
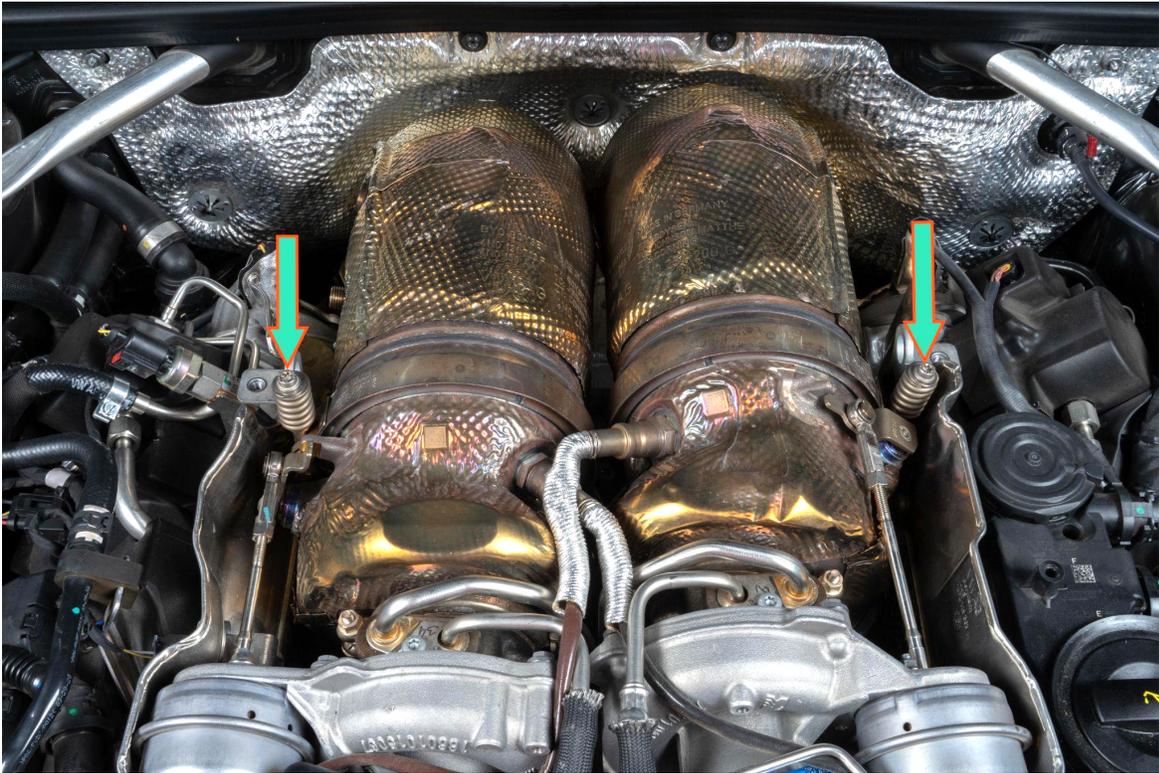
Pop off O2 sensor wire retainer on both sides using a trim removal tool.



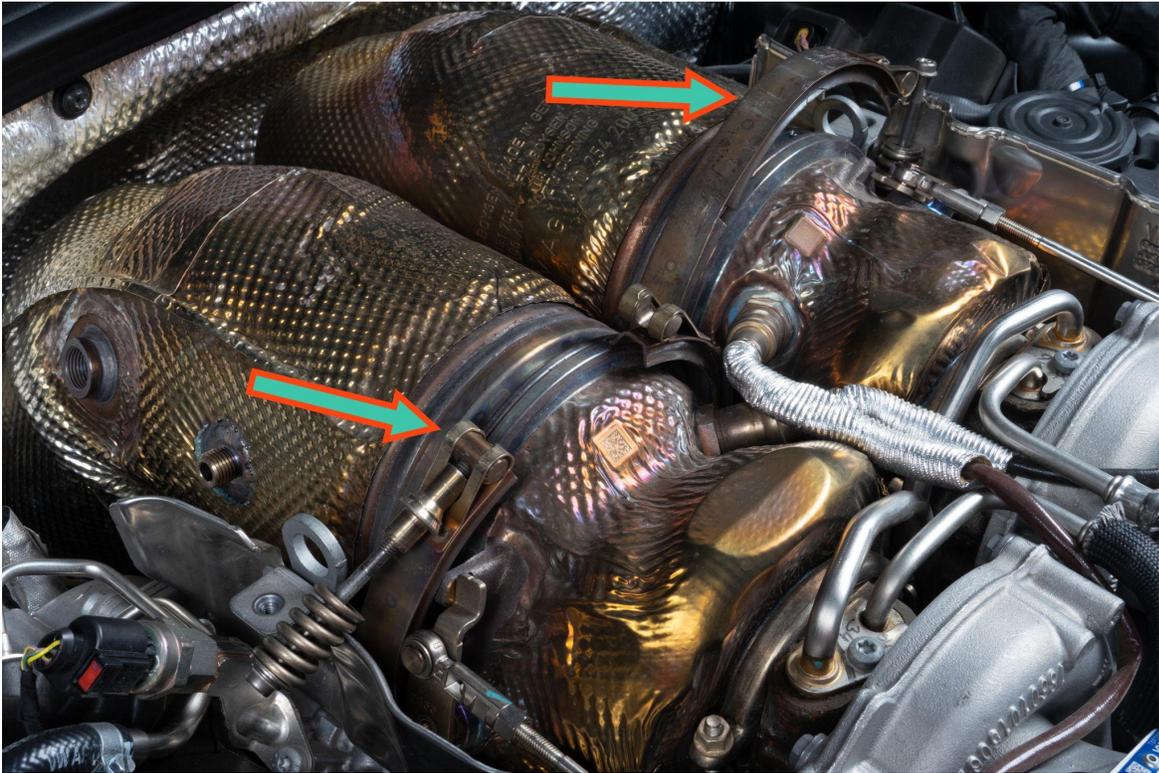
Remove O2 sensors with O2 sensor socket or a 22mm wrench.



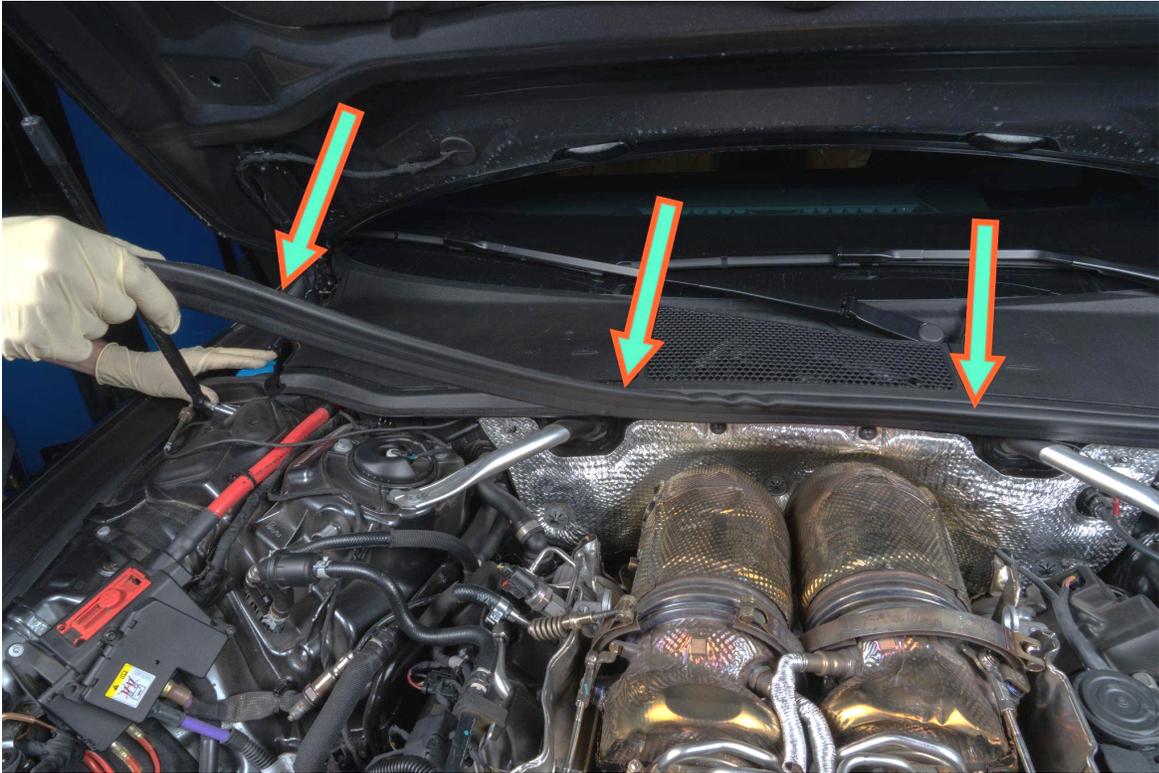
Fully Loosen the two downpipe v-band clamps using a T30 bit.



Pry up v-band using pry bar or flat head, then spin the v-bands so they're clear of the mounting flange.



Remove the cowl weather strip by pulling away.



Remove the wiper blade by popping off two covers with a trim removal tool, or flathead, then remove the two 16mm bolts. Wiggle the base of the wiper stalk back and forth by holding the wiper base and pulling up.



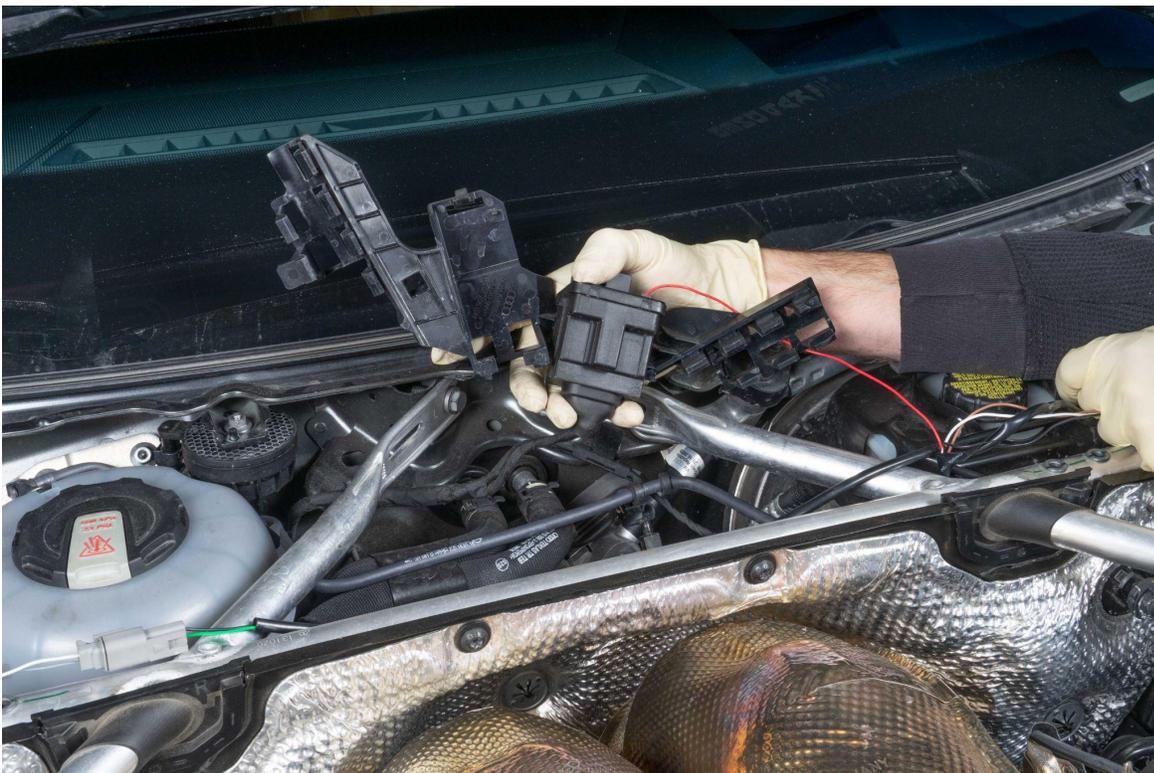
Remove the engine bay cowl by pulling up on the top corner located by the windshield, then running your hand along the edge.



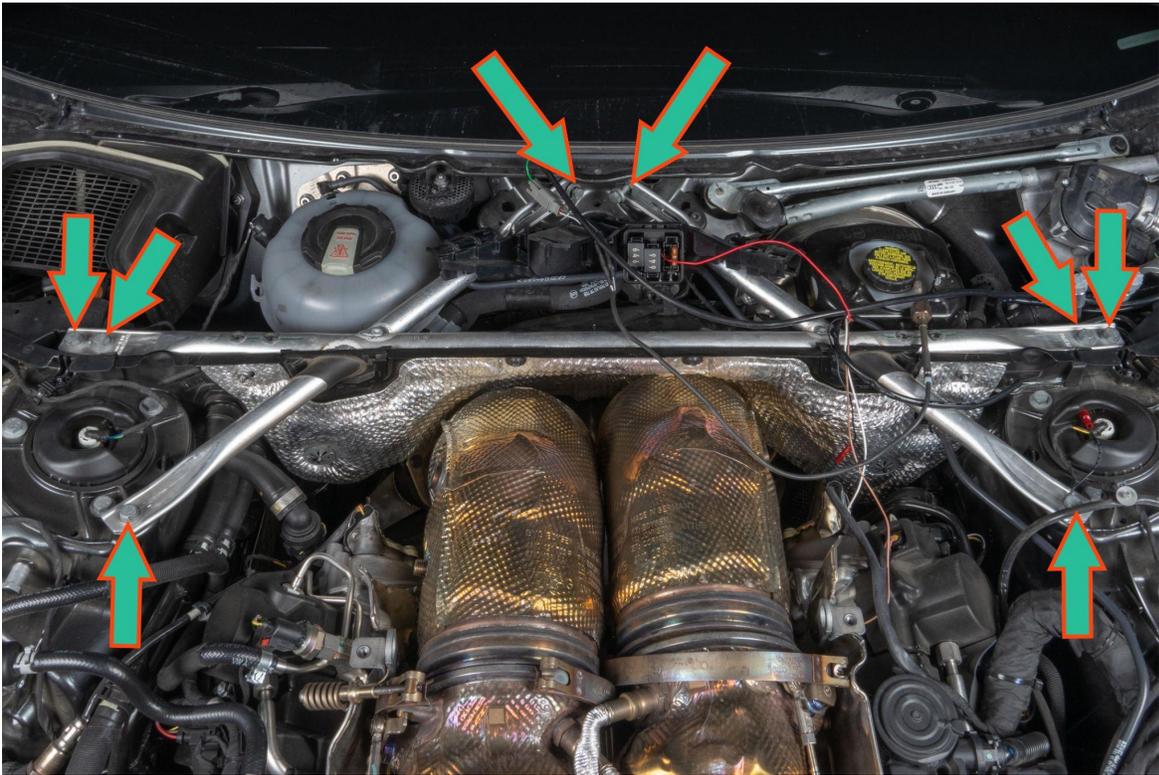
Remove cowl from engine bay.



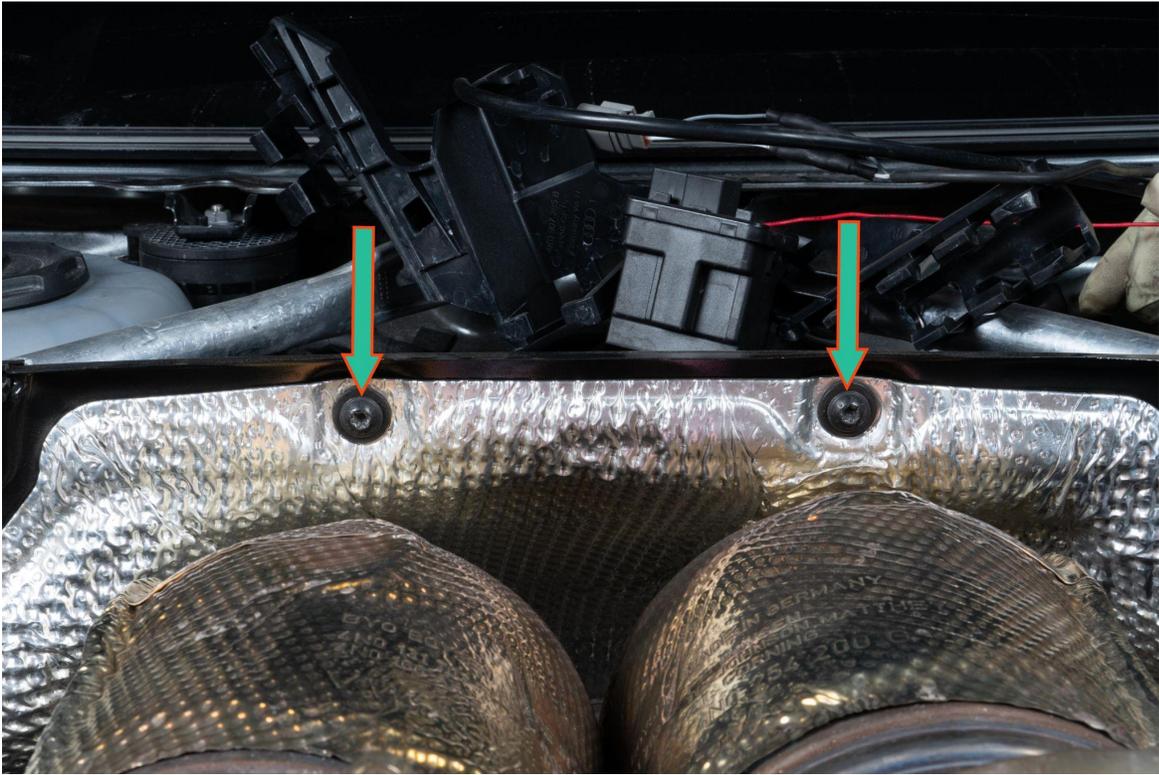
Remove the relay box by pulling up from the strut brace.



Remove eight 13mm strut brace bolts using a 13mm socket.



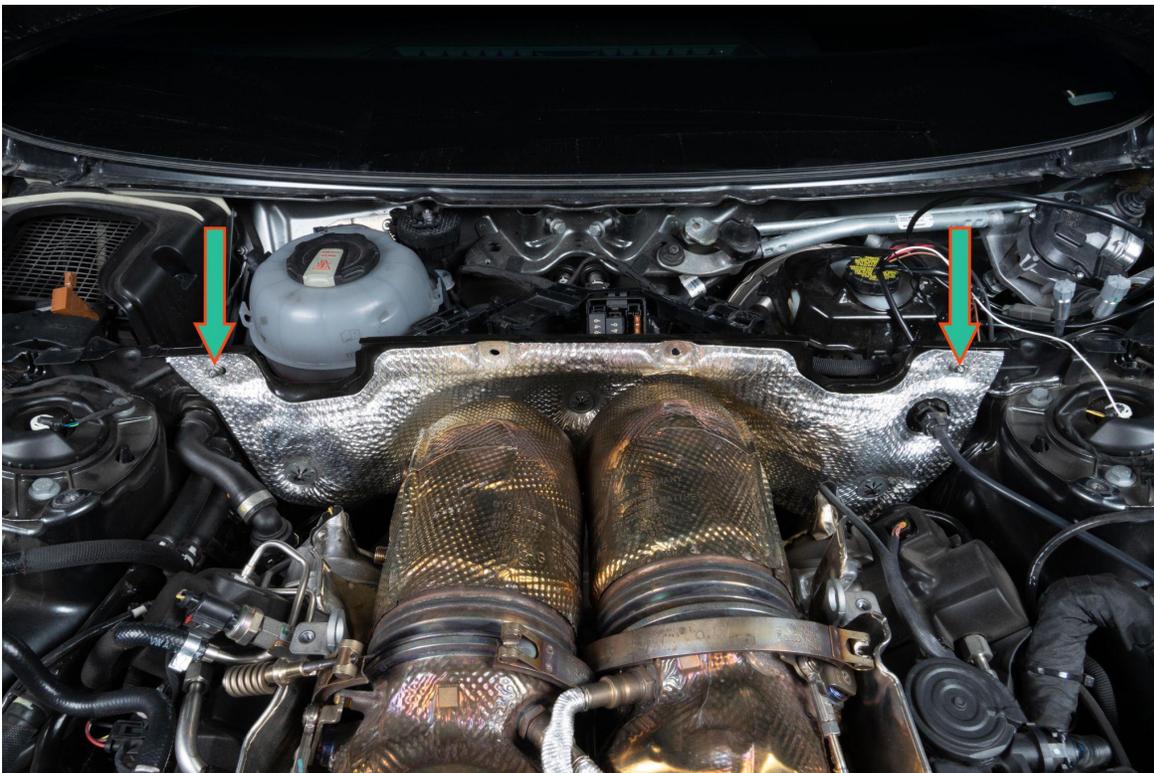
Remove two T30 screws from heat shield.



Remove strut brace from vehicle.



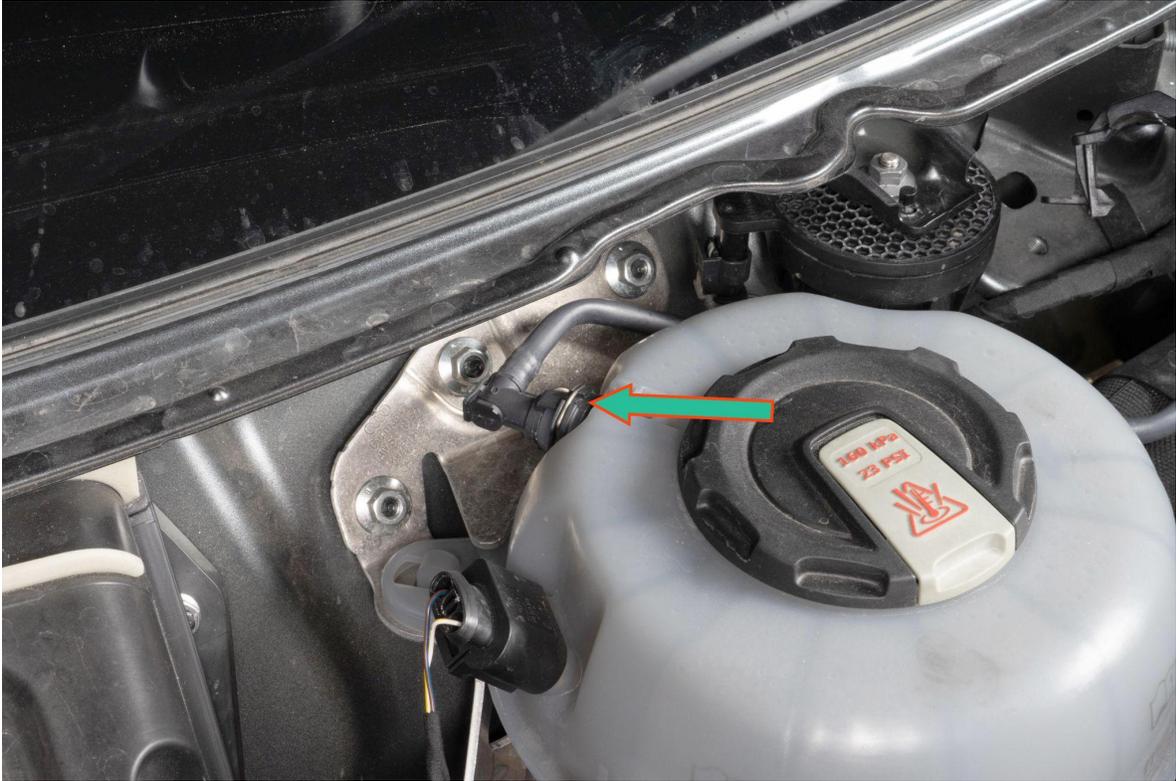
Remove two upper press on retainers from the heat shield (update needed.)



Remove coolant hose clip from connector by first pulling the metal clip down then simultaneously pinching the edges and pulling the clip away from connector.



Remove the coolant line by pulling up the clip then pulling the connector away from coolant bottle.



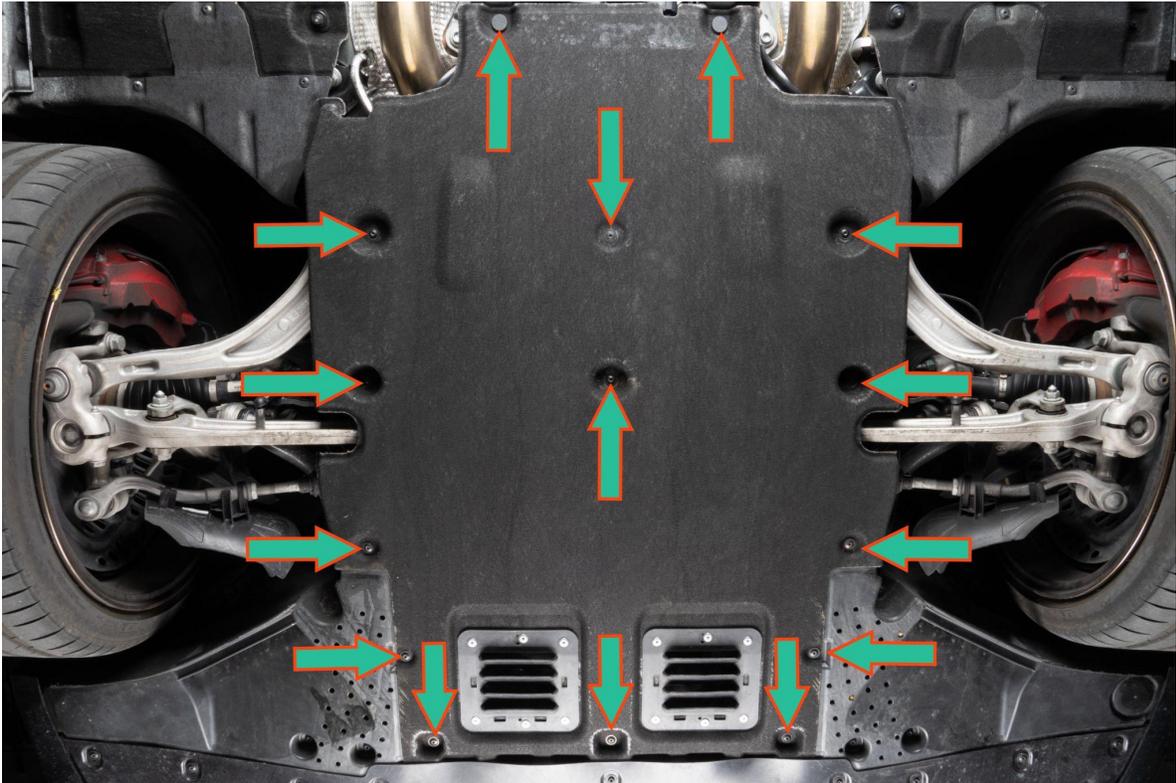
Remove the speaker by removing 10mm nut.



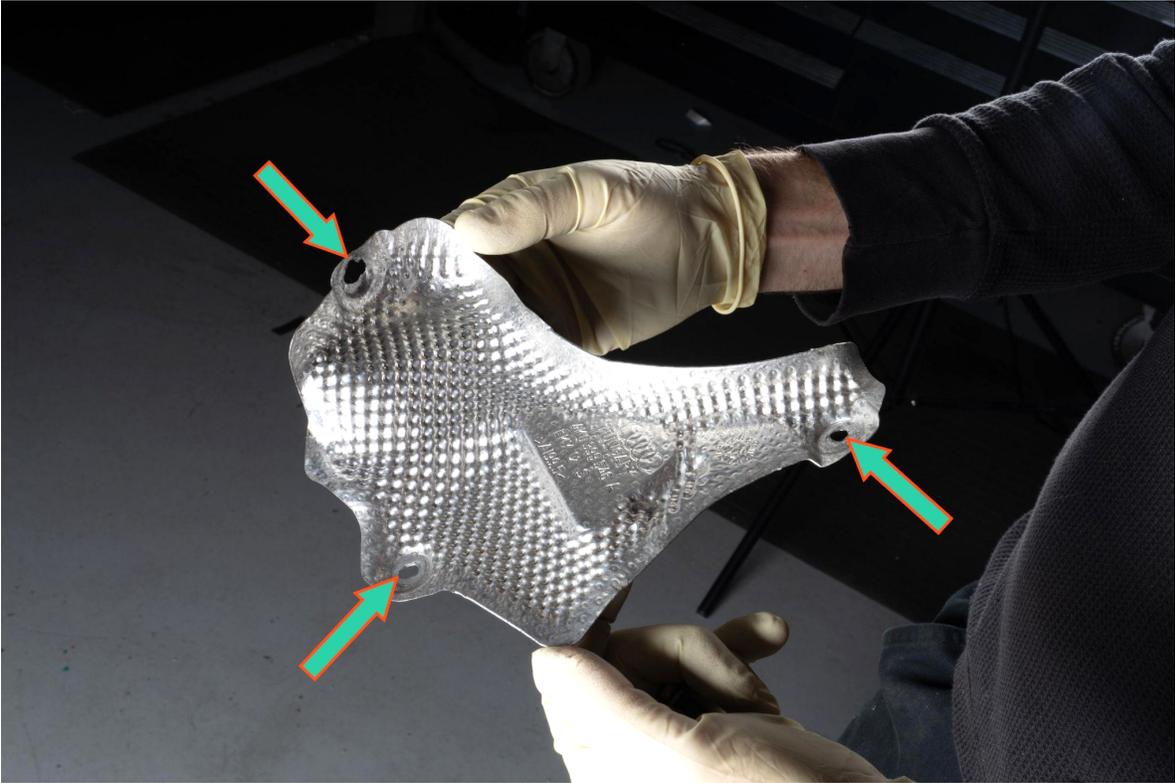
Remove the heat shield by pulling straight up and away from secondary firewall.



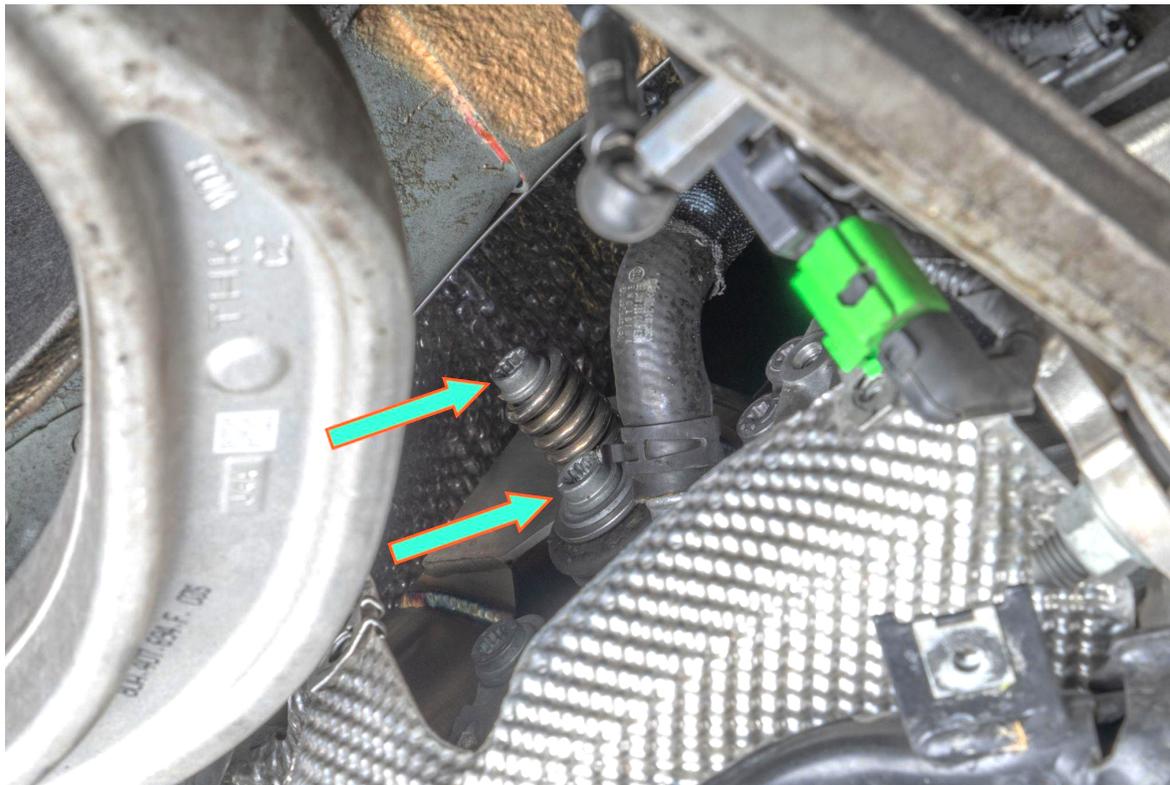
Remove the under tray by removing 13 T20 bolts and two push retainers.



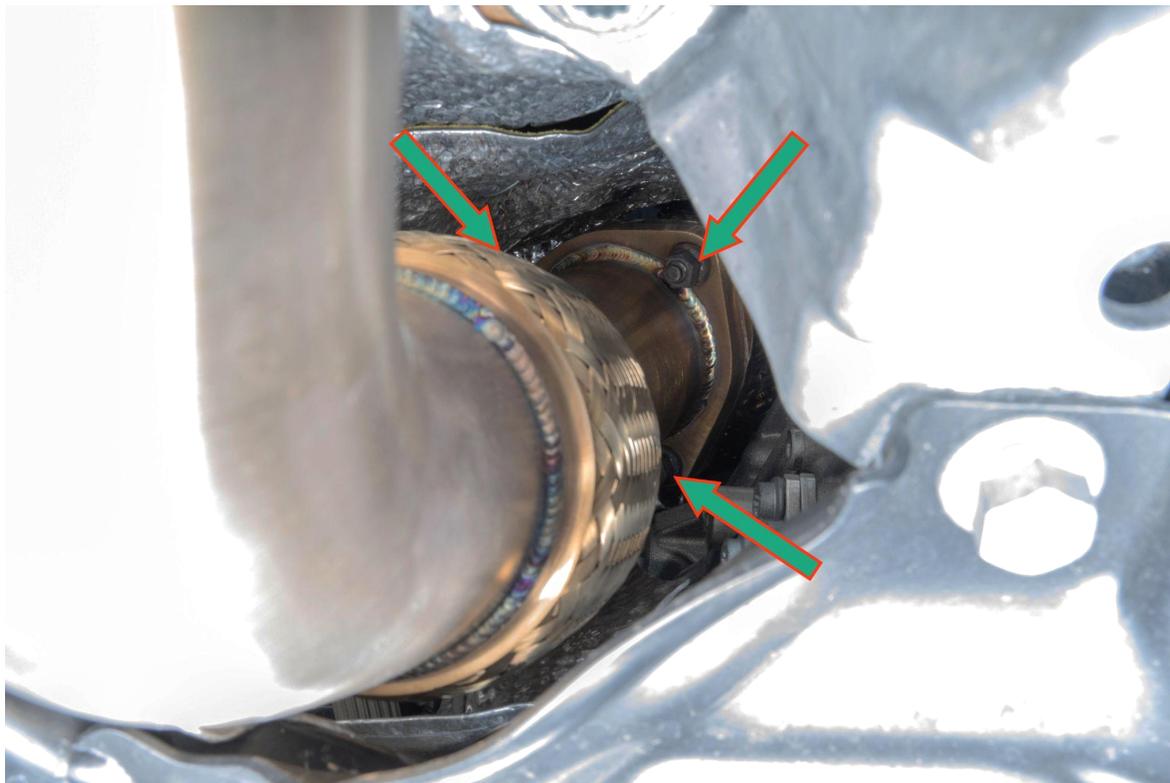
You can remove the wheels if you prefer to gain more access, then remove the outer heat shield located near the axle by removing three 10mm bolts (Refer to the second photo below to get a better understanding of the location of the bolts.).



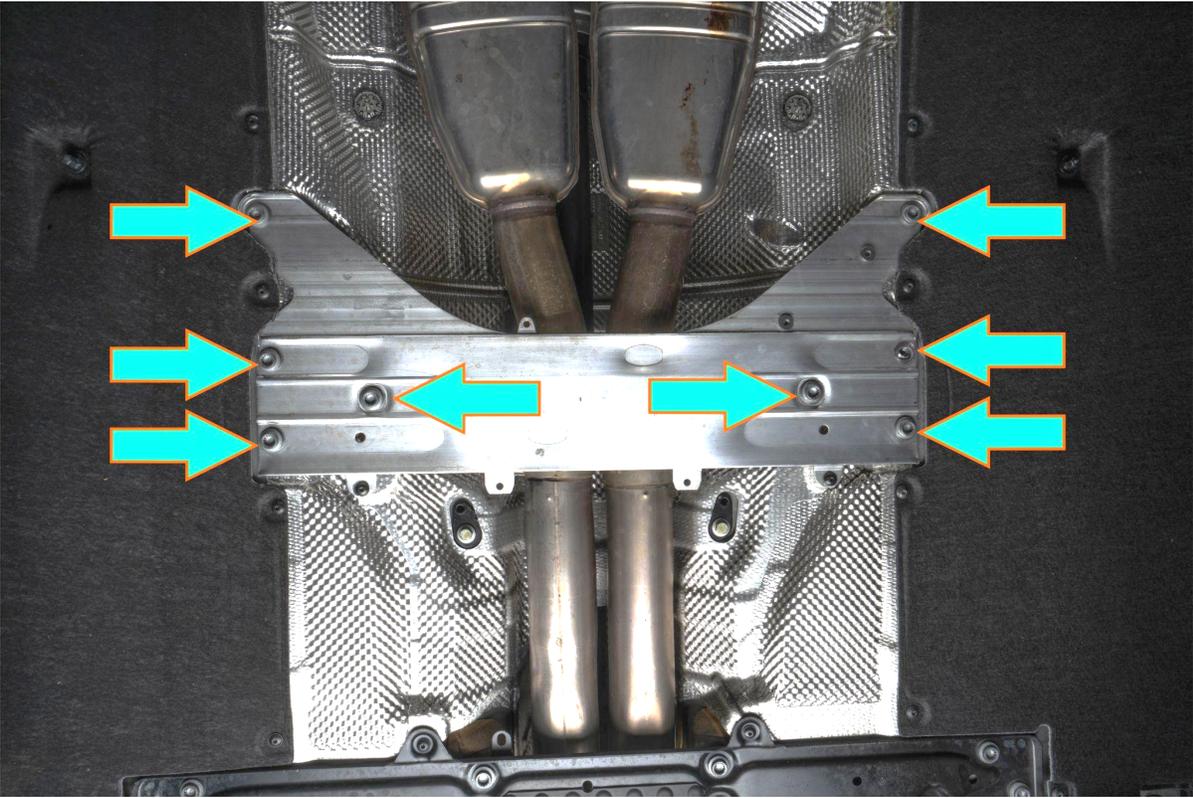
Remove exhaust hanger bolts, they are both #10 triple square bolts.



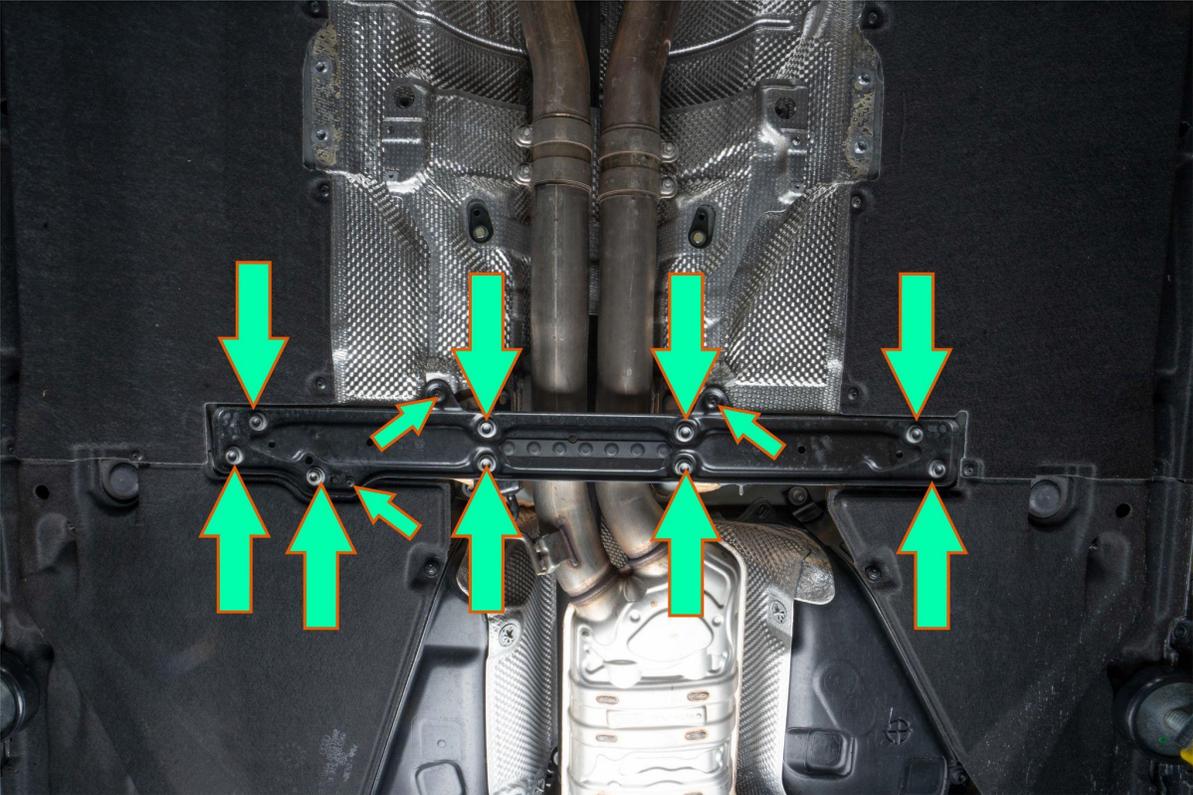
Remove three (per side) 12mm downpipe nuts. They are in a triangle pattern. You will need about 20" of extensions and a wobble socket.



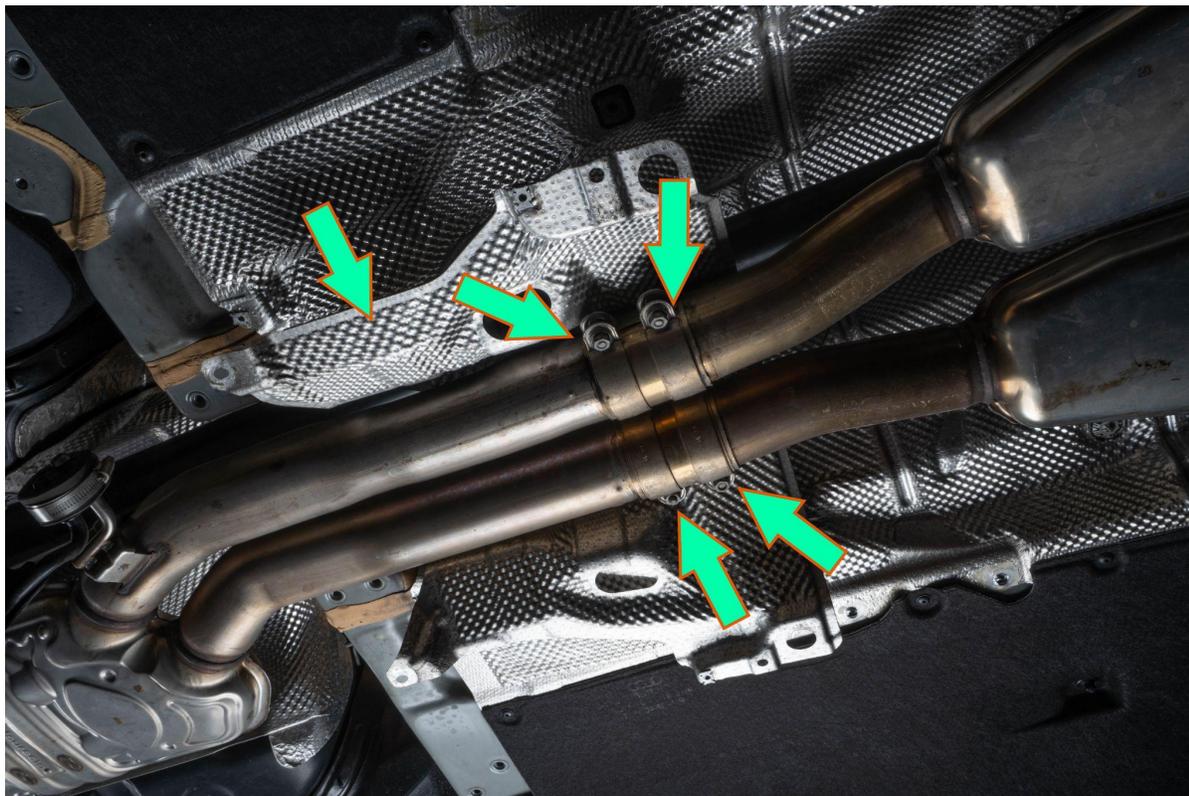
Remove 8 M12 triple square bolts, and two T25 from the first aluminum support brace in the middle of the car.



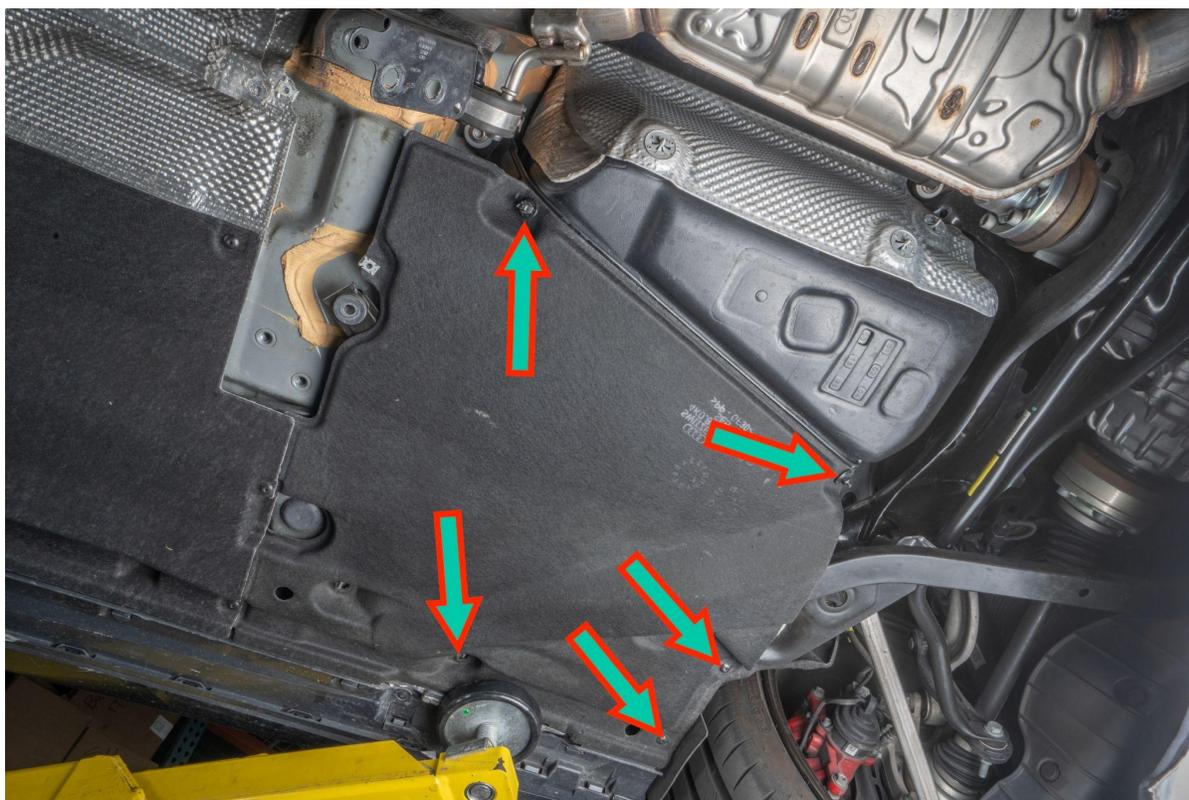
Remove the second steel support brace by removing 8 M12 triple square bolts, three T25 screws, and one M10 triple square supporting the gas tank.



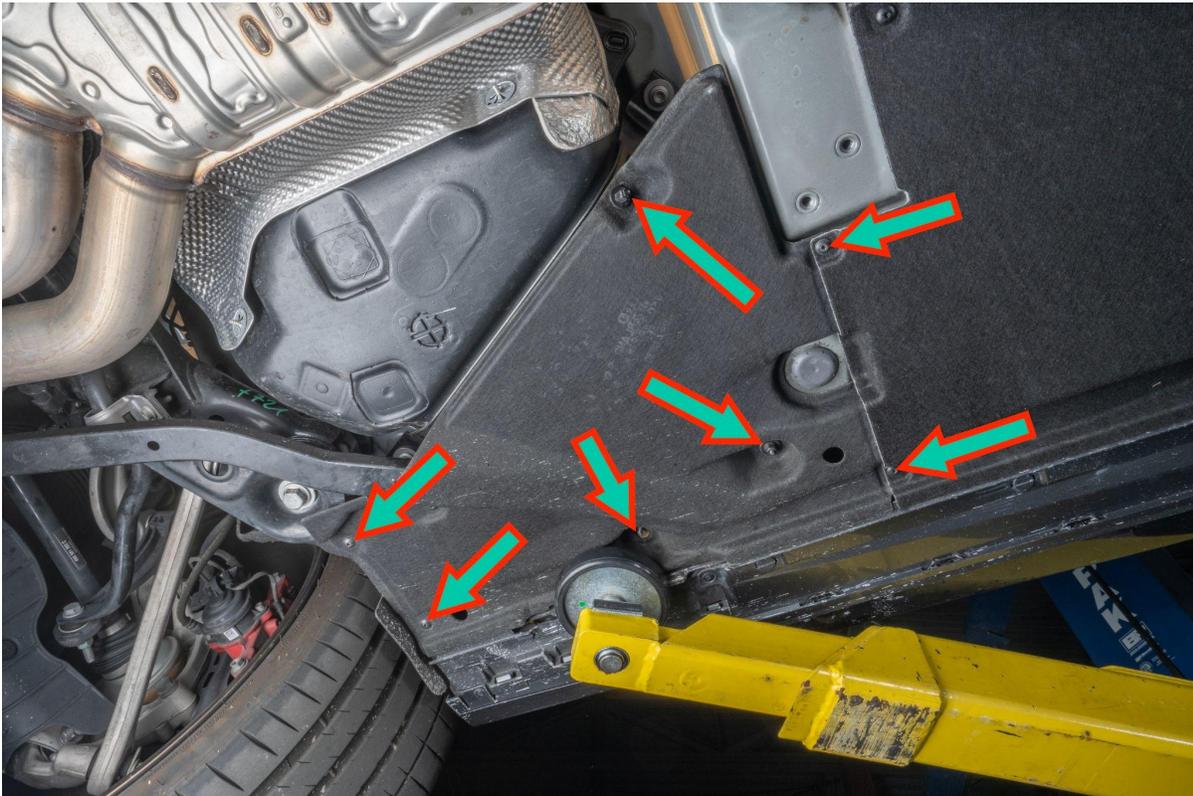
Remove four 13mm bolts on catback to the mid pipe clamp. Once loosened, remove trans tunnel heat shield. Once these have been removed, OEM mid pipes should be free to remove.



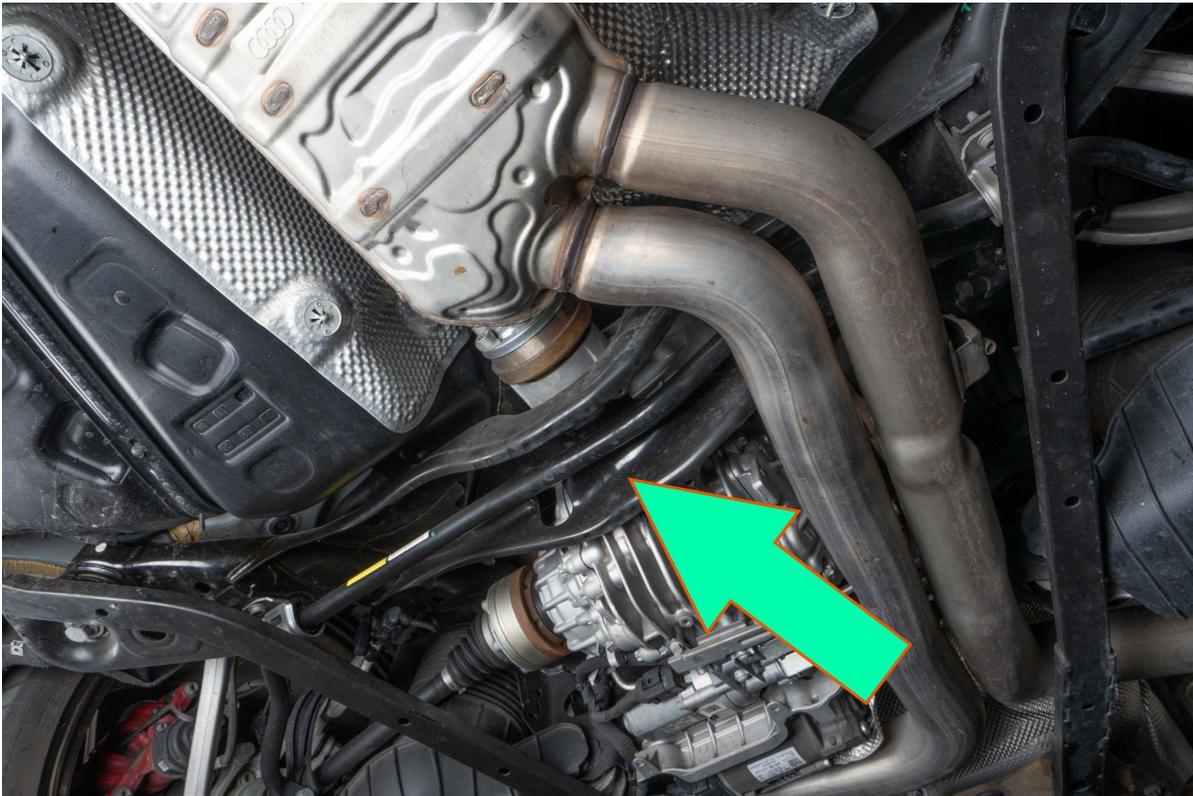
Remove the Drivers side rear undertray by removing the T25 screws and 10mm Plastic nuts.



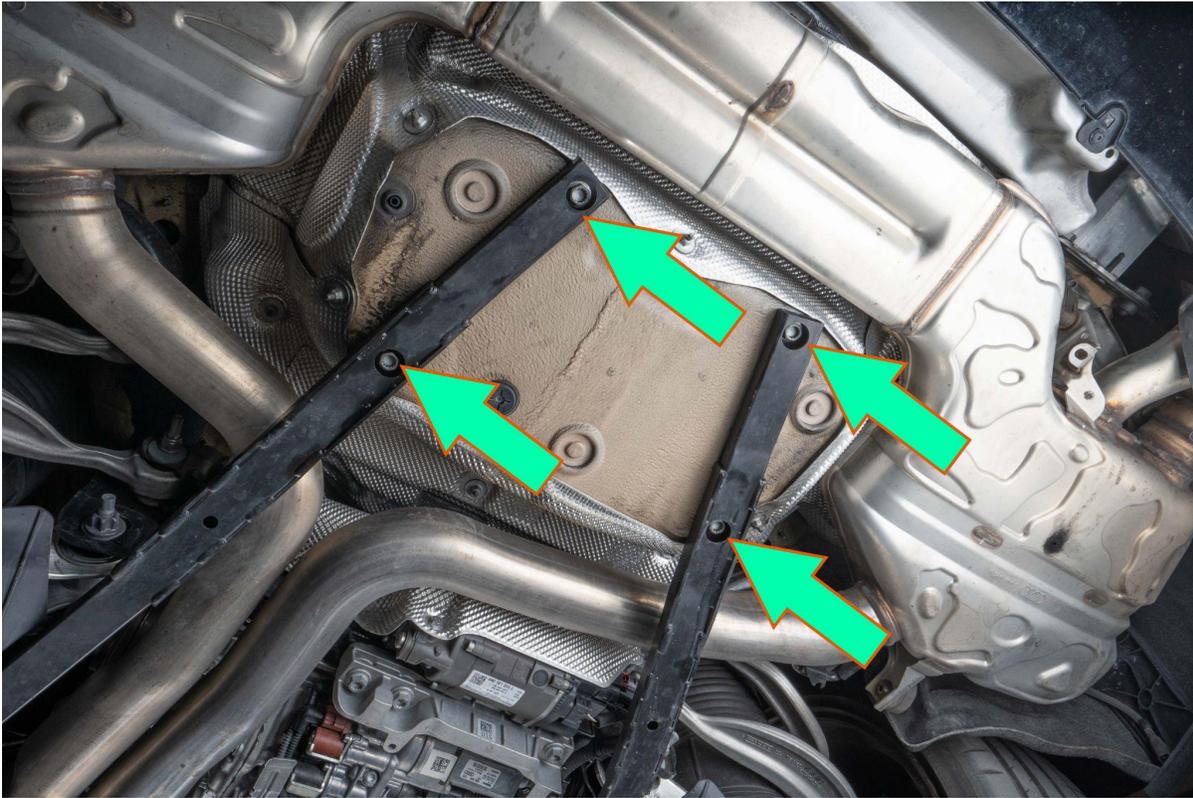
Remove the Passangers side rear undertray by removing the T25 screws and 10mm Plastic nuts.



Use a trans Jack to support the rear subframe.



Remove four M12 triple square/16mm nuts from the rear of the trailing support braces.



Remove two M12 triple square bolts from each side of the front of the trailing support braces.



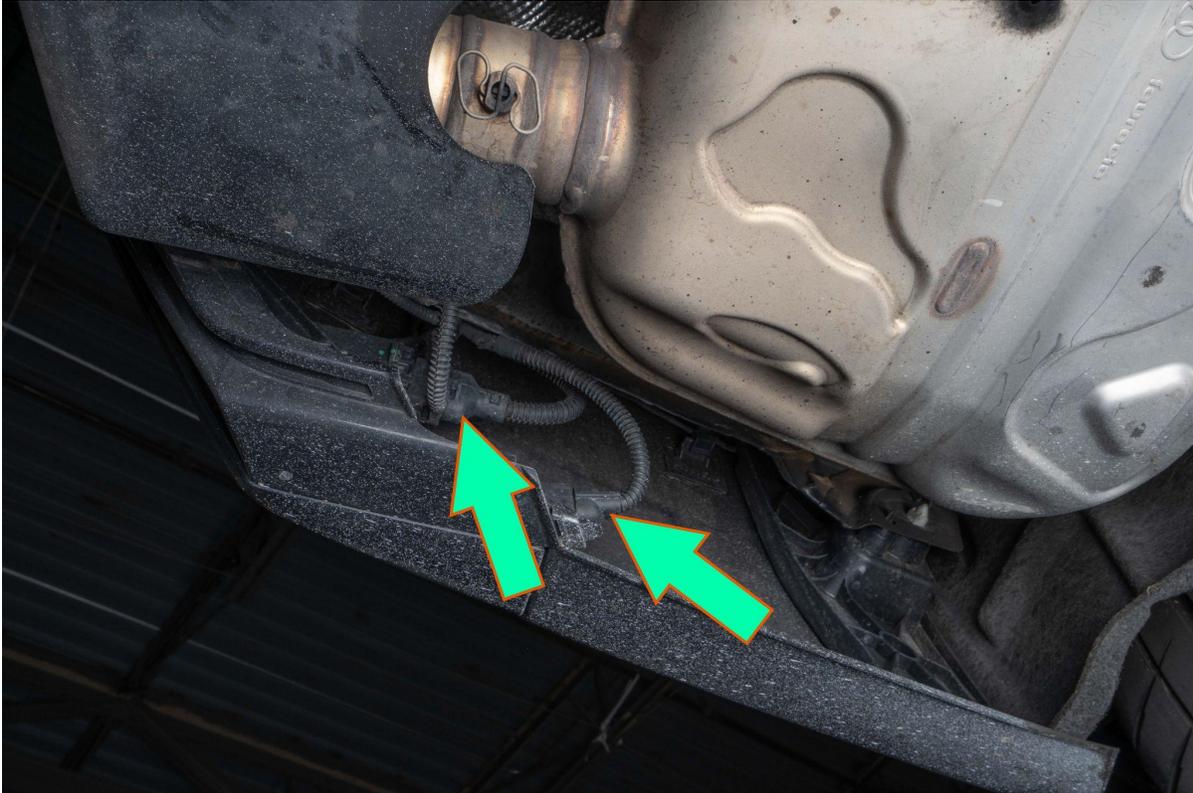
Remove 21mm bolt from trailing support brace secured to the subframe on both sides.



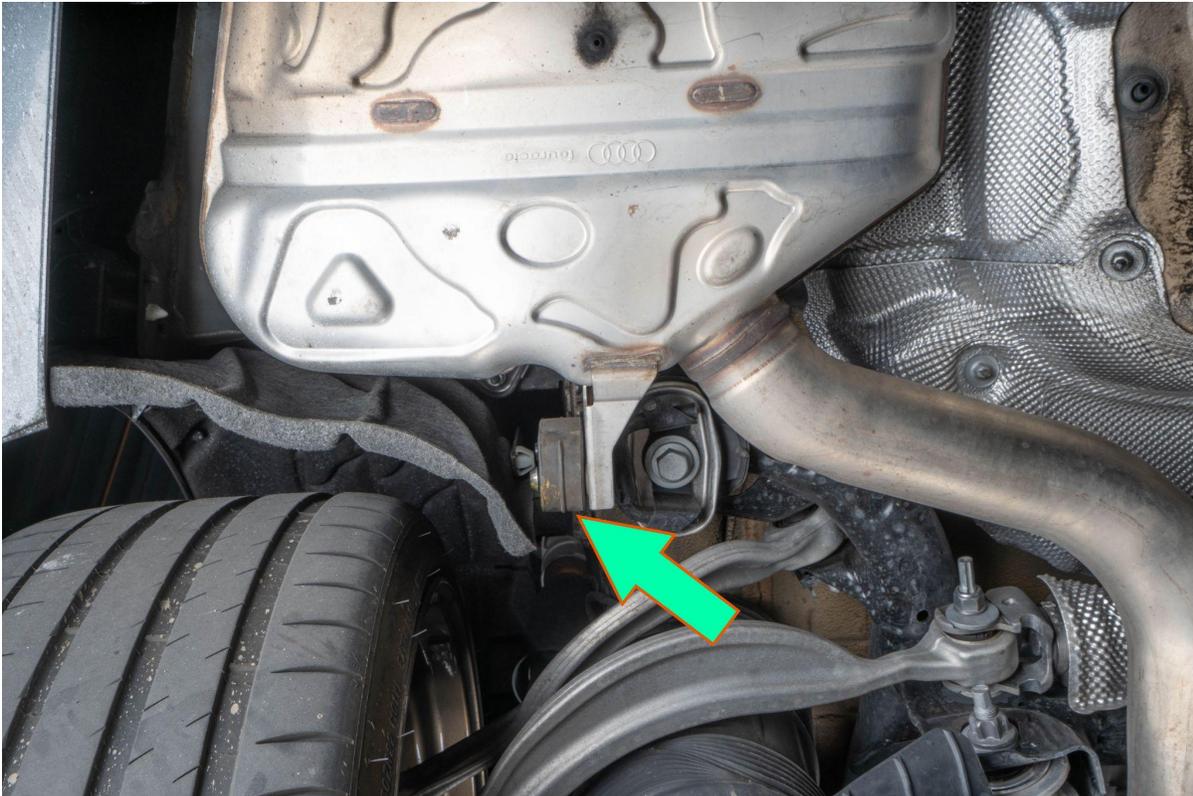
Reinstall the subframe bolt on both sides after removing support brace for safety.



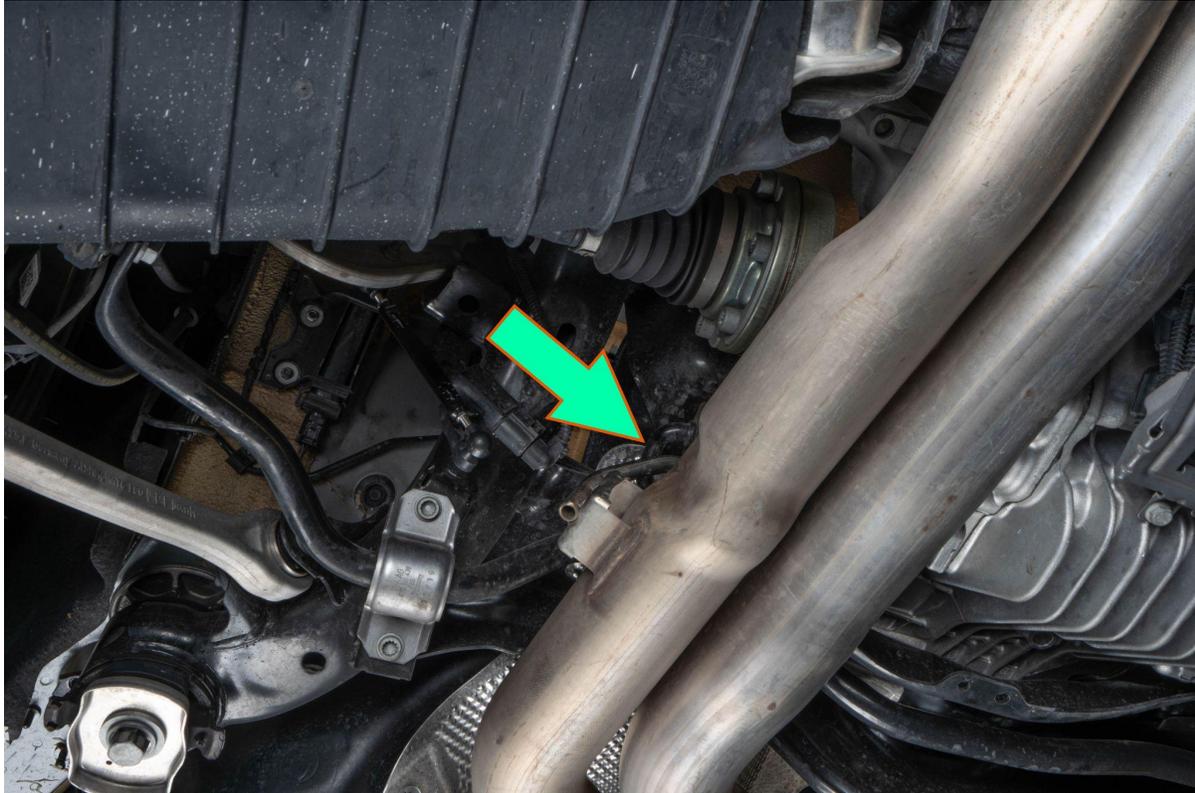
Unplug exhaust valves from the rear of exhaust.



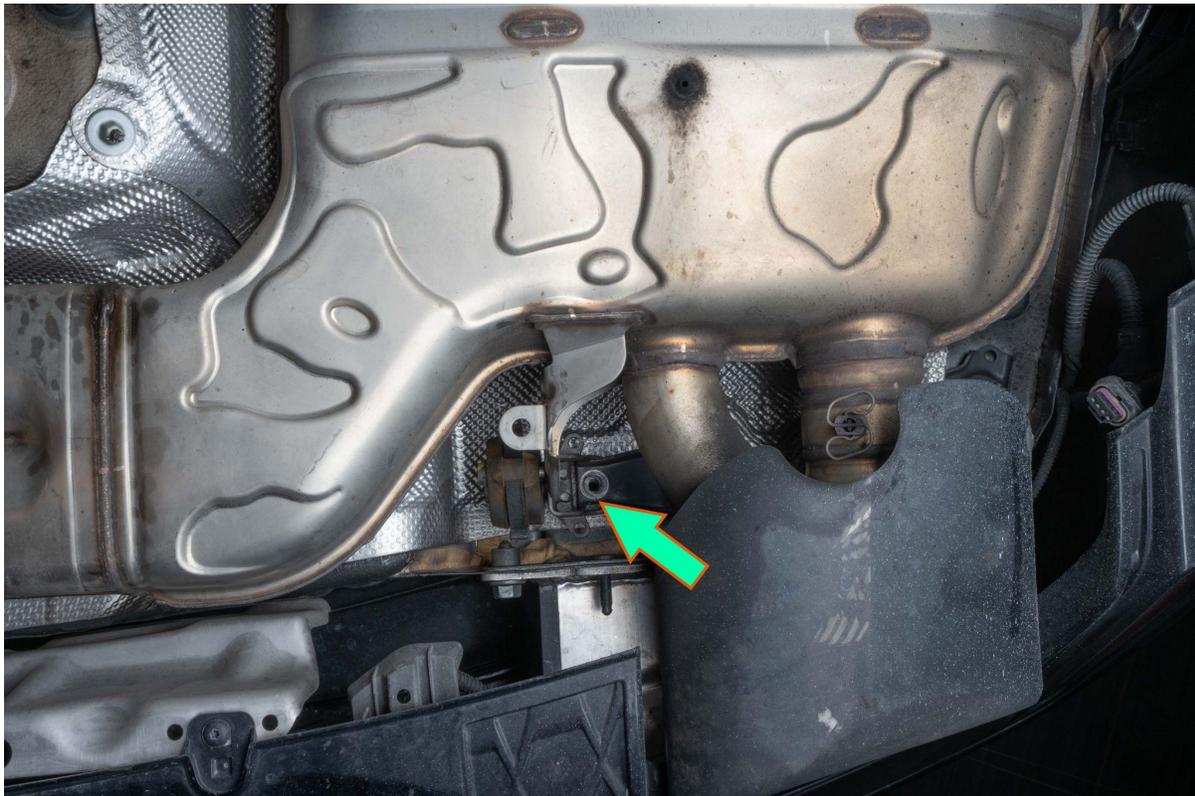
Remove two forward position hangers on the rear muffler on each side.



Remove exhaust hanger near rear axle next to the differential.



Remove two 13mm bolts holding rear of exhaust and remove rear exhaust assembly with mid pipes.



Remove the hangers from muffler.



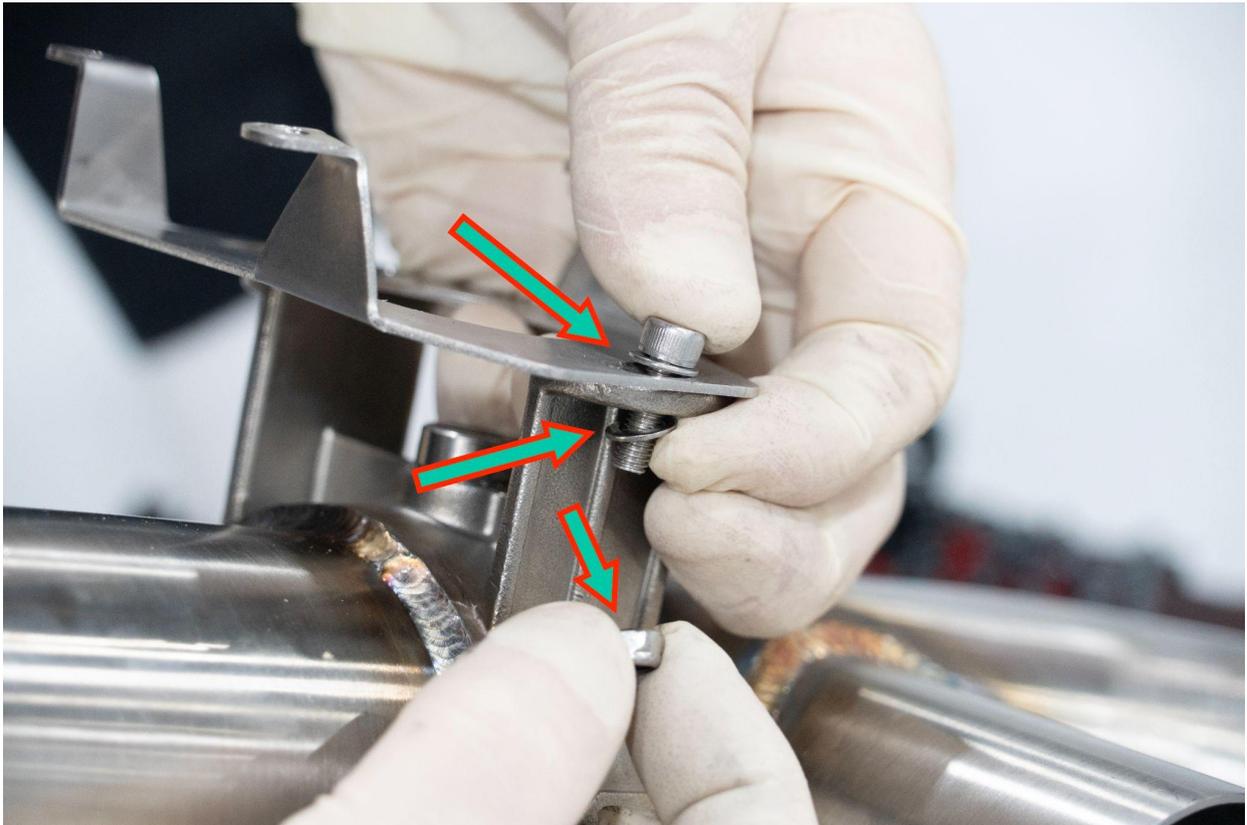
Attach hangers onto new IE exhaust.



Remove exhaust valves from old exhaust.



Attach Valve Mounting Plate to IE Exhaust using 4mm allen bolt, Two washers, and 10mm Locking Nut.



Align Spring with spring housing.



Drop assembled spring housing into valve mount.



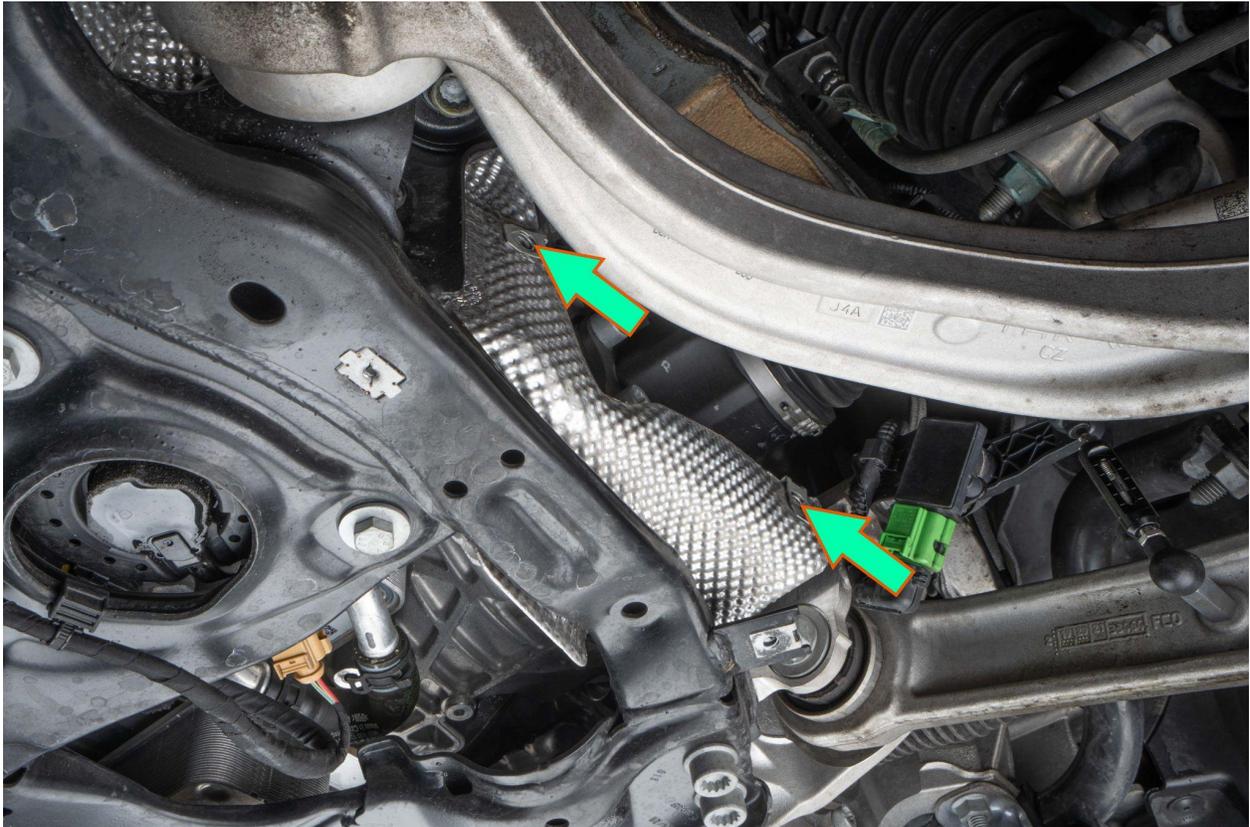
Lower OE Exhaust Valve motor into assembly.



Use 10mm bolts to fasten valve motor to mounting plate.

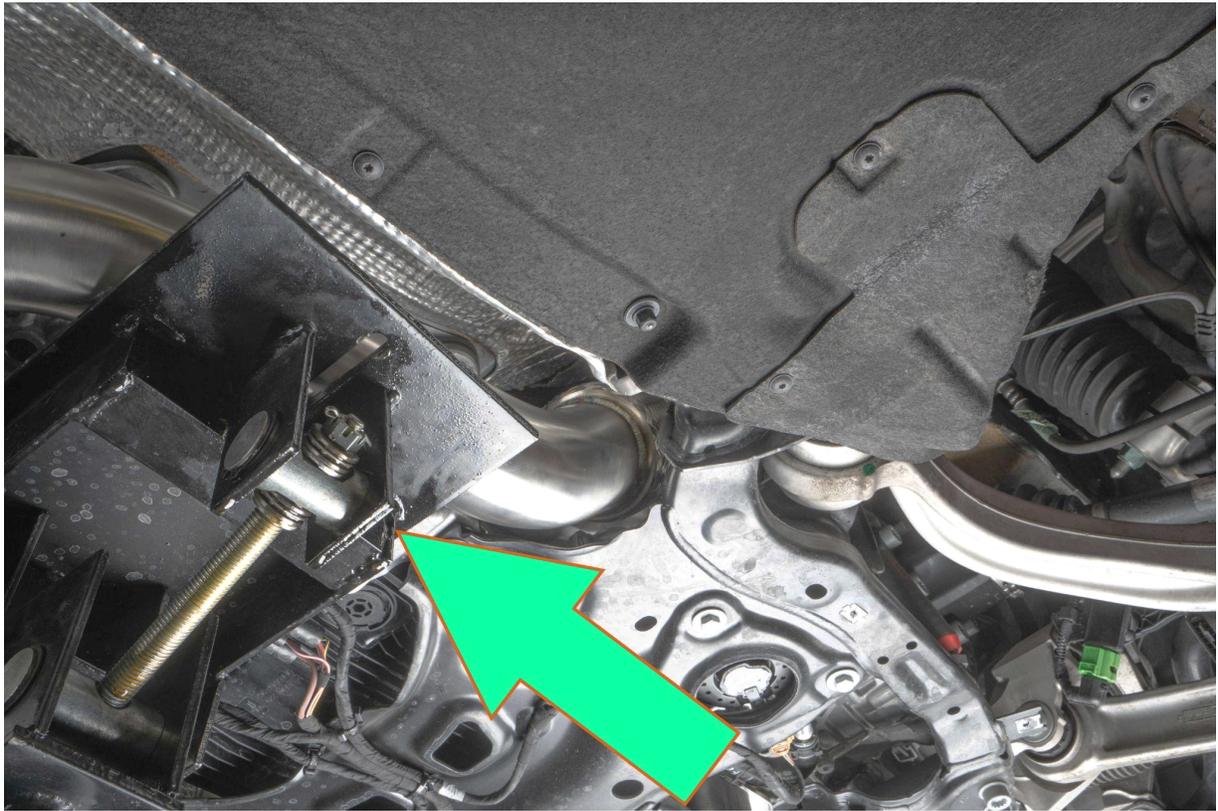


Remove fender heat shield on both sides by removing 1 10mm bolt and 2 T25 screws.

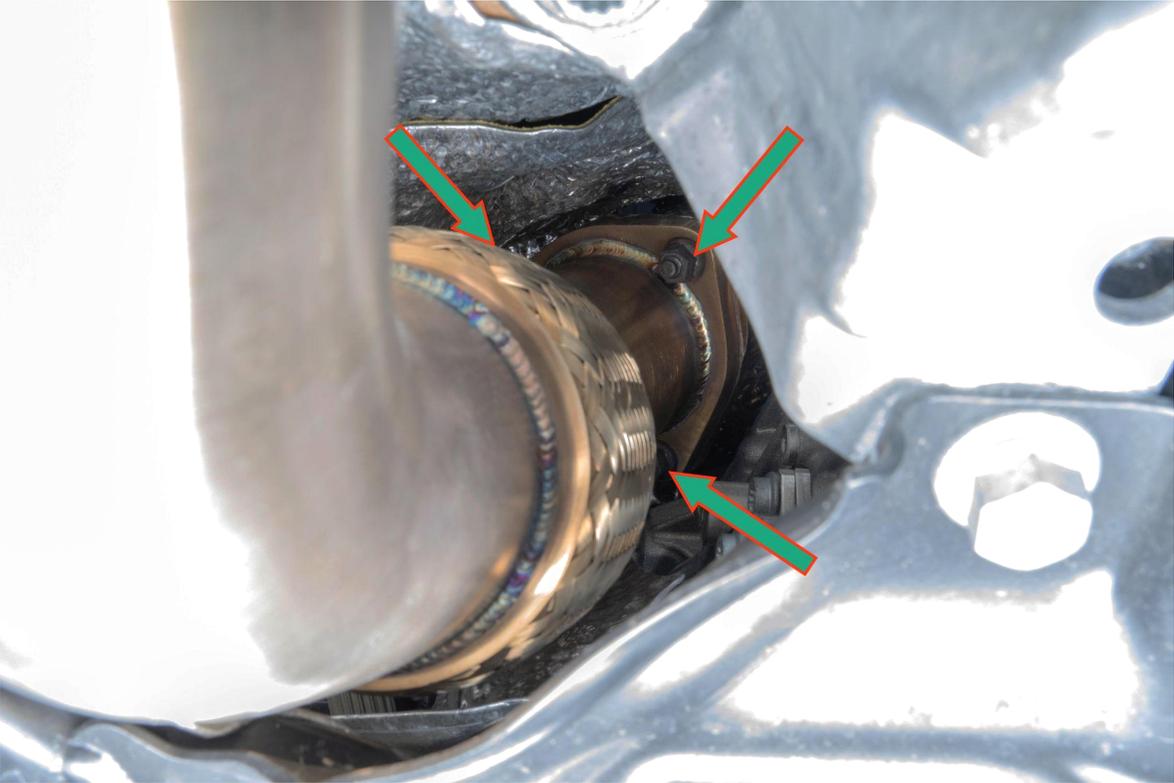


Lift mid pipe into place using a trans Jack to hold it up.

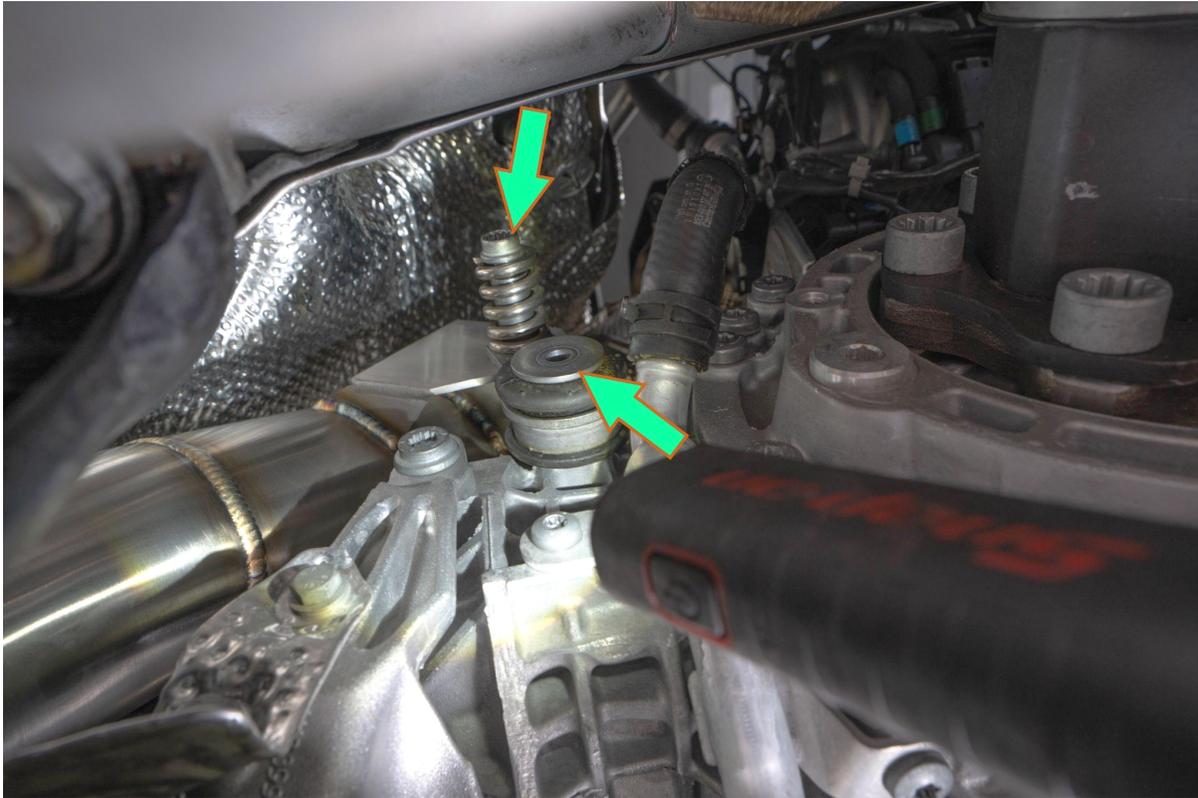




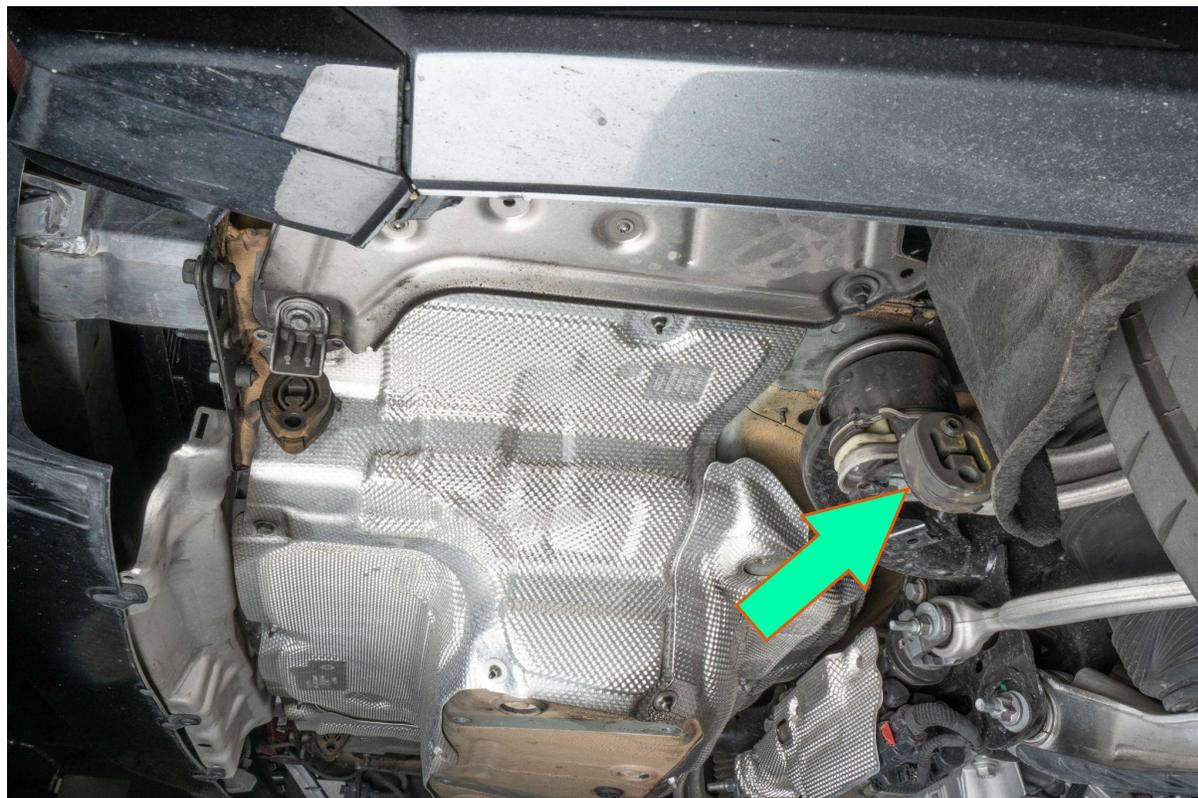
Install three 12mm nuts to secure mid pipe.



With two M10 triple square bolts, Install mid pipe hanger on mid pipe side first, then install transmission hanger bolt. Repeat on other side.



Install exhaust hangers on rear of the car where muffler will sit.



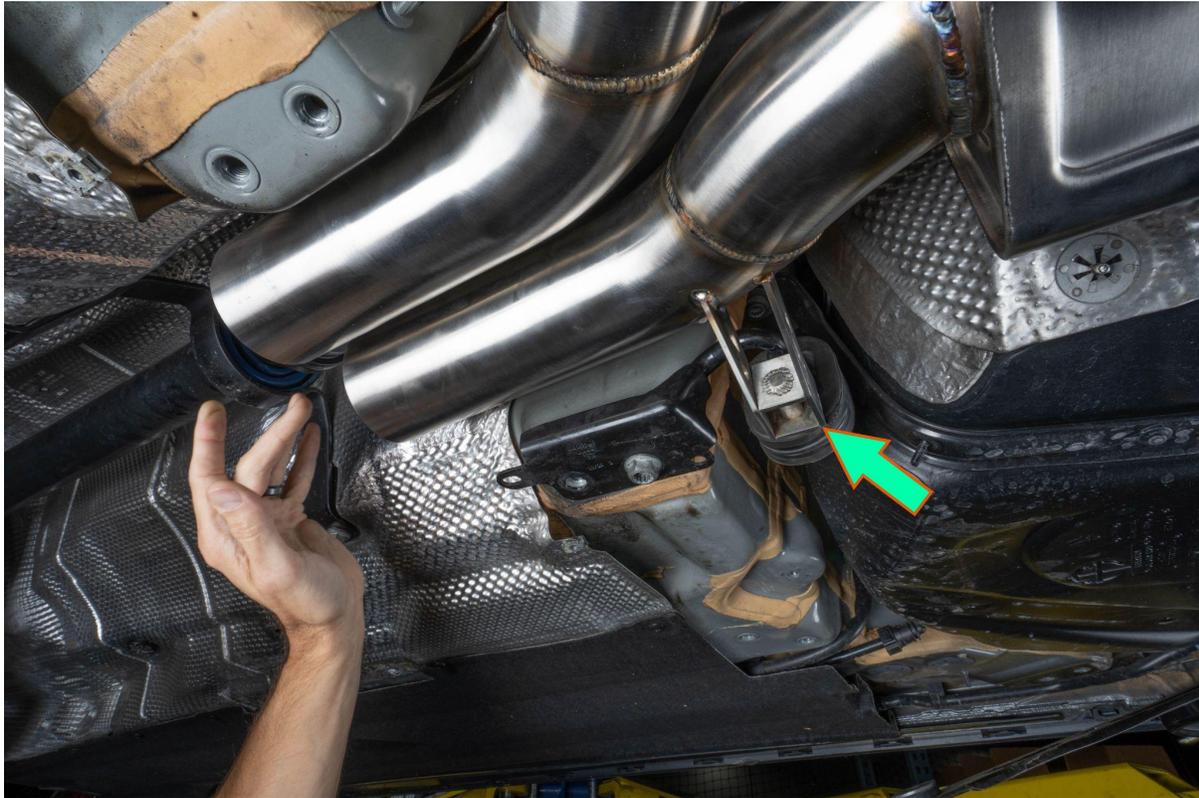
With a helping hand, install new rear exhaust muffler section onto the exhaust hangers.



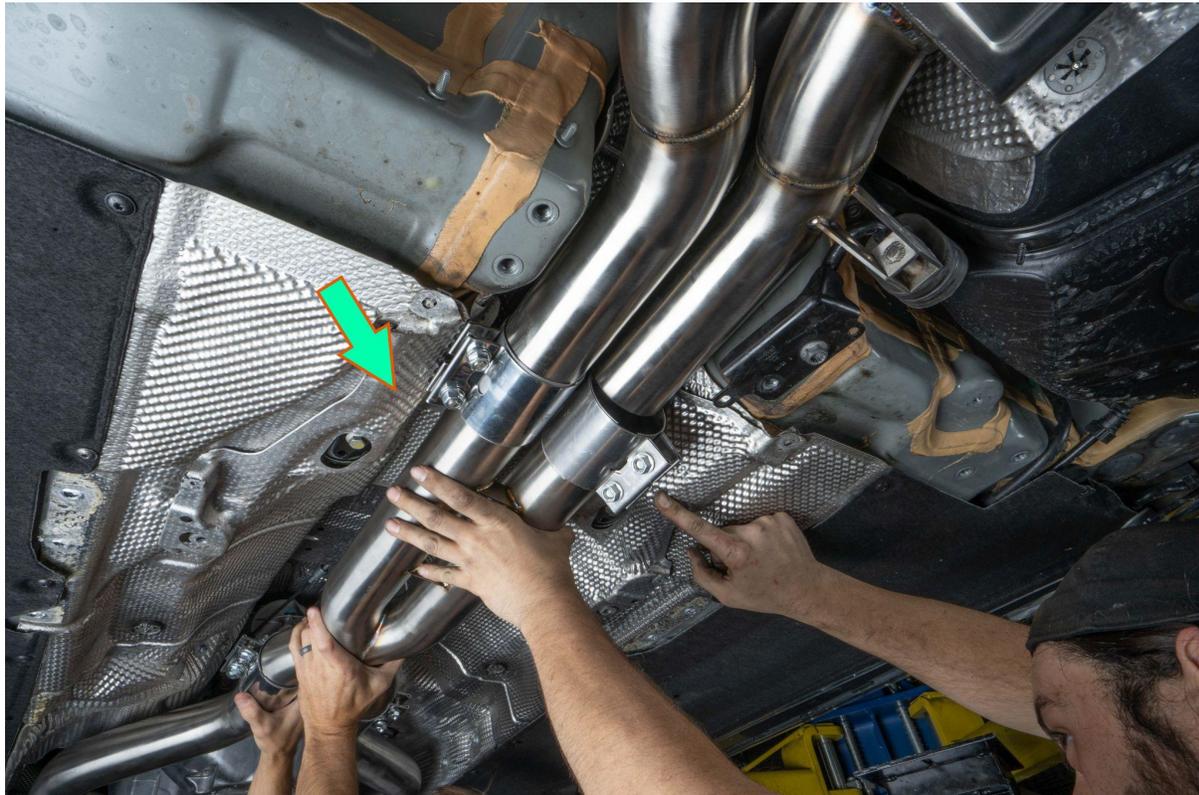
Install middle section, tighten exhaust clamp connecting Y pipe and middle section. When joining the front, middle and rear sections together, ensure that the gaps at the clamps are between 5-10mm to achieve proper fitment.



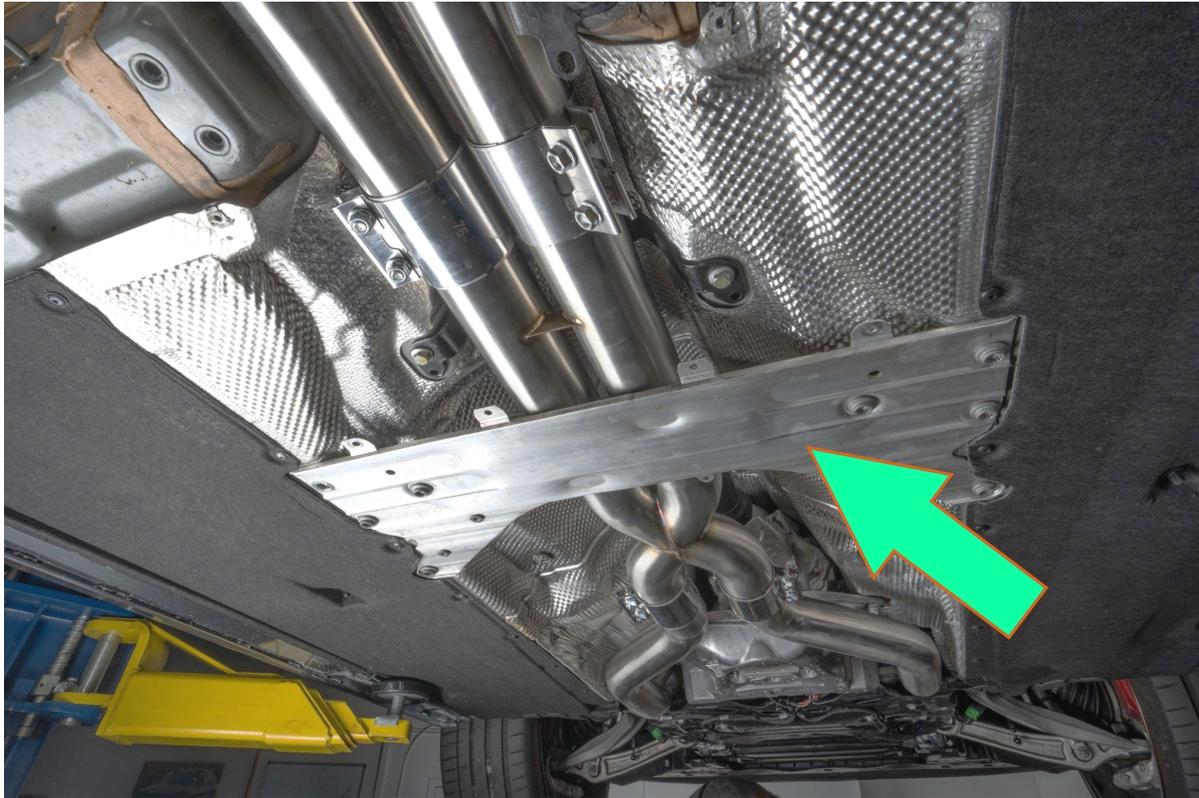
Install middle exhaust hanger.



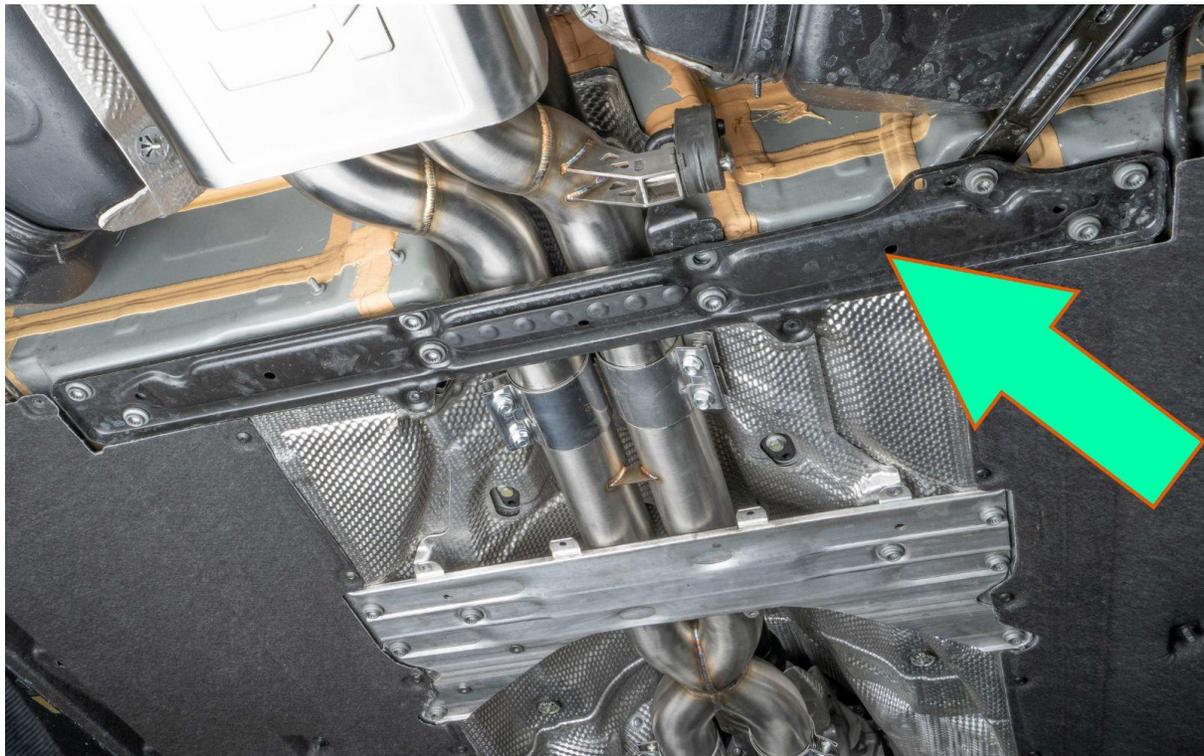
Install drive shaft heat shield first, then slide in exhaust X pipe along with the clamps.



Install middle aluminum brace using 8 M12 triple square bolts.



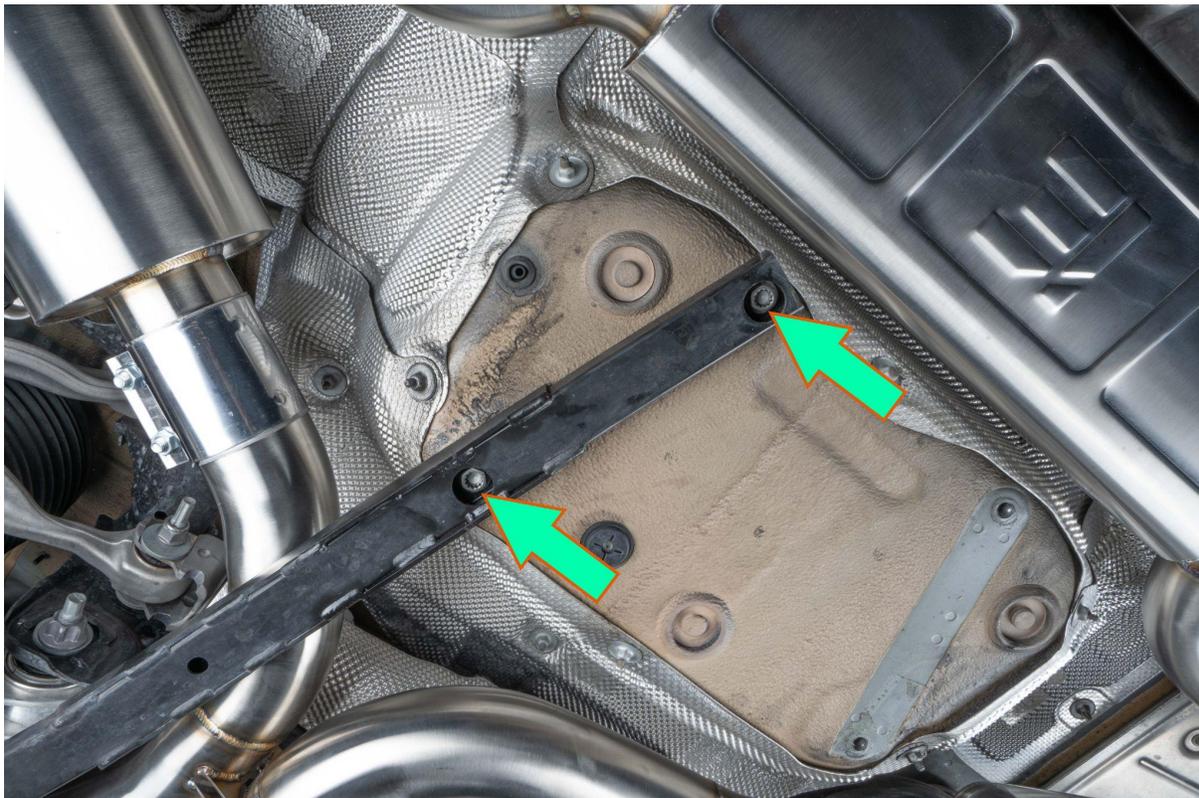
Install steel support brace using M10 triple square bolts, 3 T25 screws, and 1 M10 triple square supporting the gas tank.



Continuing to hold the subframe with the trans jack, remove ONLY the driver side rear subframe bolts using a 21mm socket.



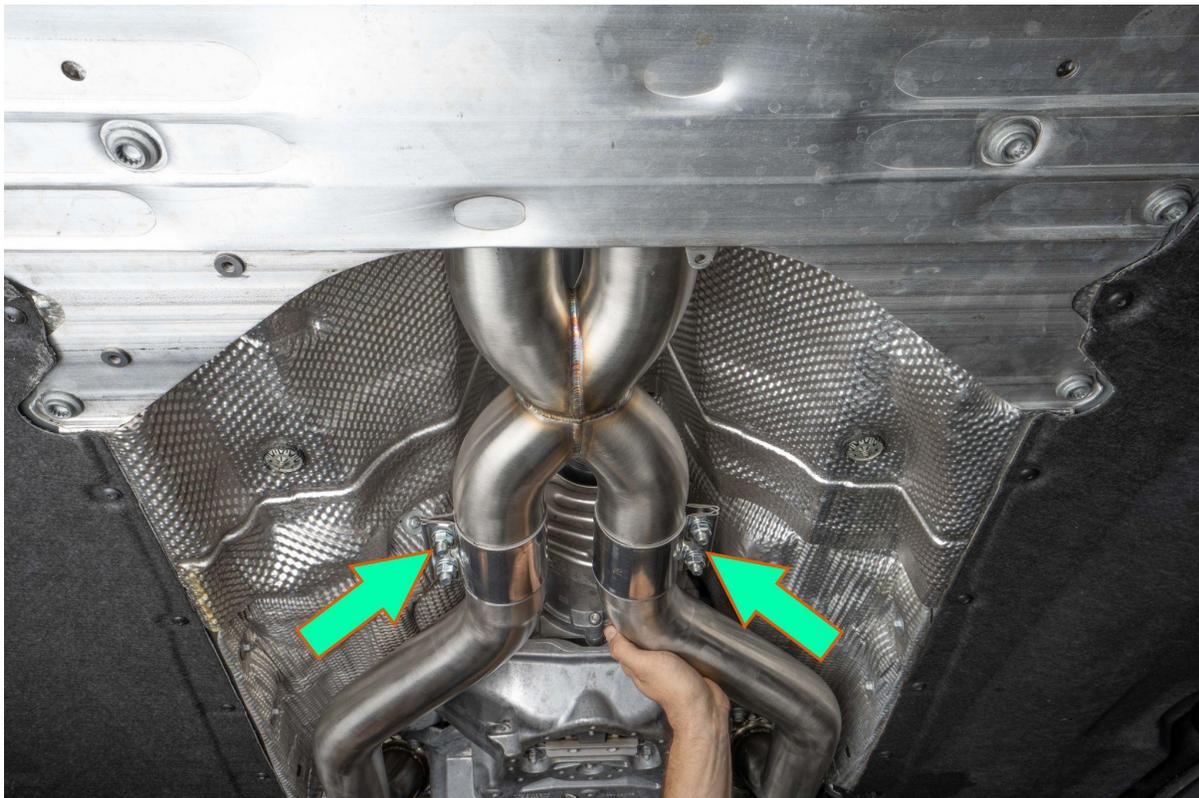
Reinstall driver side trailing brace with 4 M12 triple square bolts securing trailing brace.



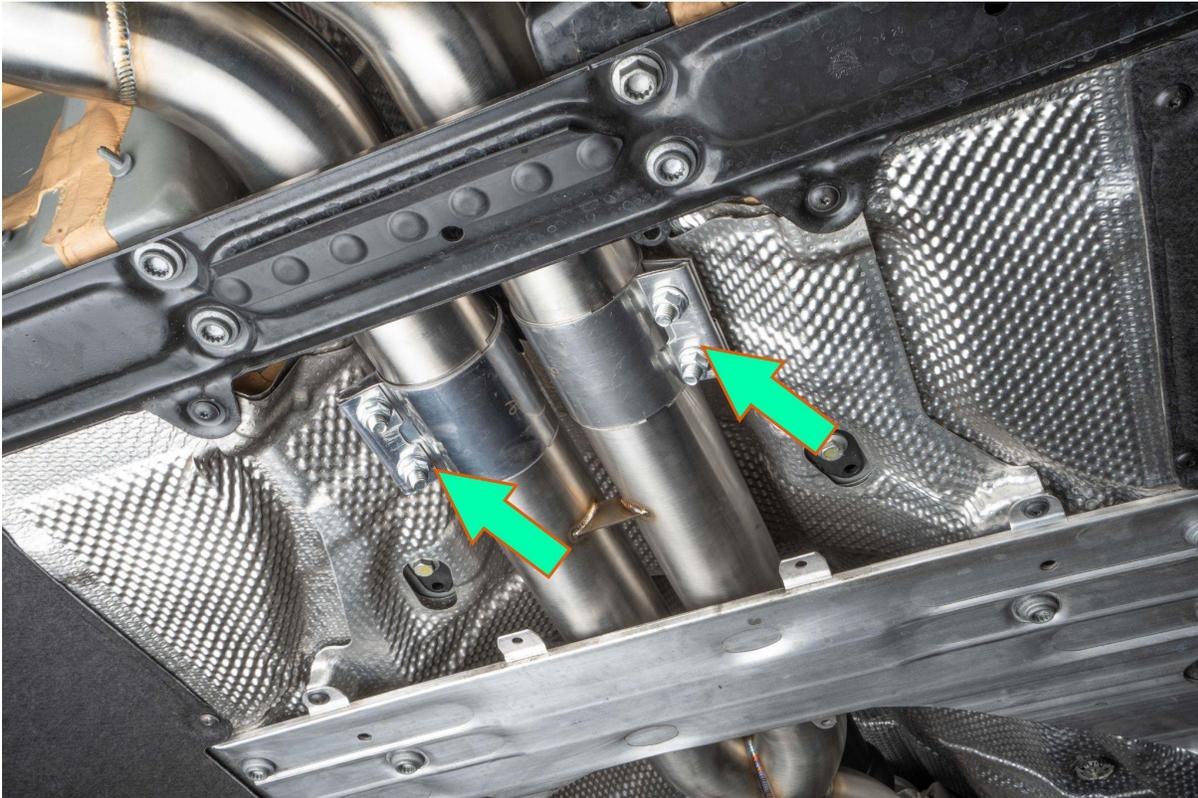
Repeat on the other side.



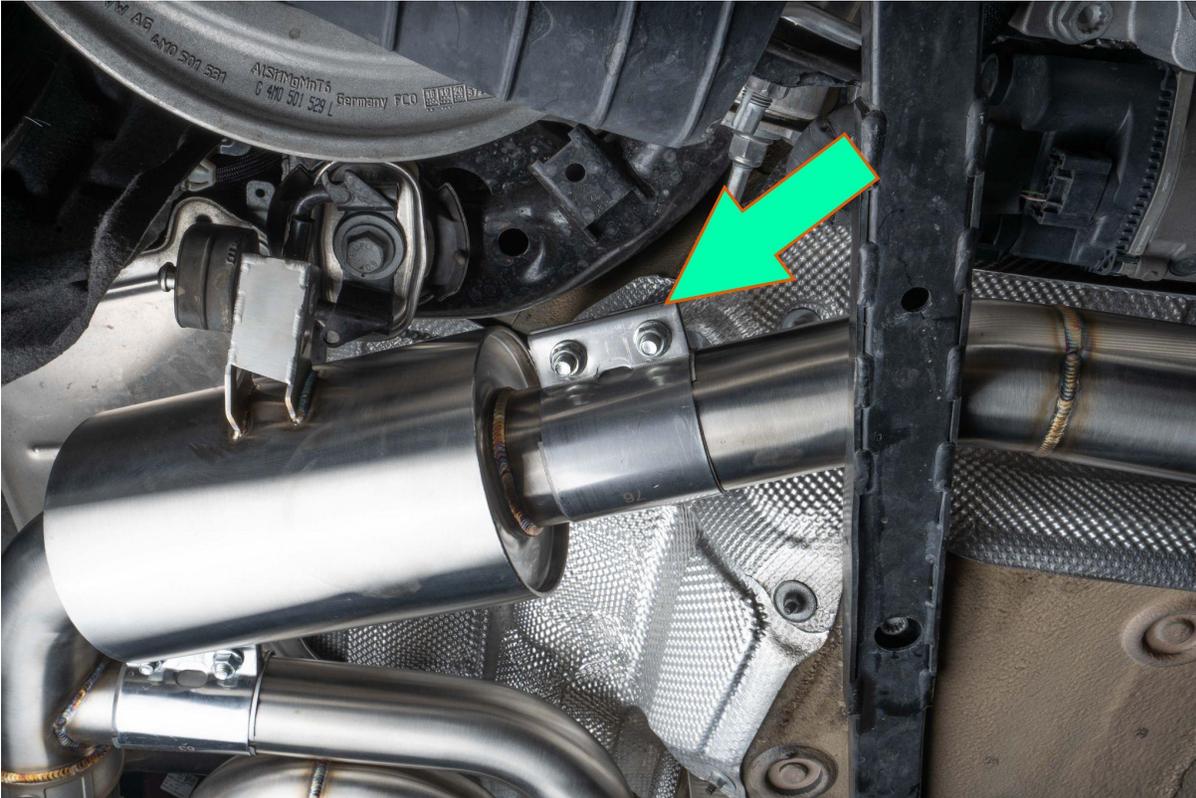
Tighten exhaust clamps connecting mid pipe and X pipe with a 15mm socket.



Tighten exhaust clamps connecting X pipe to front muffler section.



Install exhaust clamps connecting Y pipe to rear section.



Once the exhaust is secured under the vehicle, take the time to ensure proper orientation of all the parts, then tighten all hangers and clamps. Once all the clamps are tight, recheck that orientation hasn't shifted. Once orientation is correct, it is simply reverse installation of all the lower and engine covers to complete the install.

Enjoy the Looks, Sound & Performance of your new IE Catback Exhaust System!



Thank you for purchasing another Integrated Engineering product. We are dedicated to serving your VW/Audi engine and performance needs. Please check our website frequently for new product releases. If you have any questions or concerns about this product, please do not hesitate to contact us.

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