

[Cast Stainless Steel Racing Catalyst, B9 Audi A4/A5 & Allroad 2.0 TFSI](#)

**034 MOTORSPORT**

The 034Motorsport Cast Stainless Steel Racing Catalyst is designed as a high-flow drop-in replacement for the restrictive catalytic converter to yield increased horsepower and torque throughout the powerband, reduced turbocharger lag, and an enhanced exhaust note.

Emissions Disclaimer: This product is sold for competition use and is not legal for use in highway or street vehicles.

Installation Spiciness Rating



(Spicy)

Installation of your 034Motorsport Cast Racing Catalyst is a complex process. We recommend professional installation by an experienced Audi/Volkswagen specialist.

Supplied Parts:

- 034Motorsport Cast Racing Catalyst
- Turbocharger Outlet Gasket
- Catalytic Converter Outlet Gasket
- M10 Copper Locknuts (4)
- M8 Copper Locknuts (3)
- M8x30 Studs (3)

Tools Needed:

- **Sockets** – 7mm, 8mm, 12mm, 13mm, 14mm, 20mm 12-Point, Oxygen Sensor Socket
- **Bits** – 5/32" Allen, T20 Torx, T25 Torx, 10mm Triple Square
- **Chemicals** – Penetrating Lubricant, Anti-Seize Paste, Red Loctite
- 14mm Wrench, Torque Wrench, Extensions, Swivel Joints, Pry Bar

About This Guide

This Install Guide documents the installation process on a 2017 Audi A4. The actual installation process for your vehicle may vary by model, due to factory options, or because of existing aftermarket modifications already installed.

Getting Started

- Ensure you have all parts and tools required for installation by reading the complete Install Guide.
- Raise your vehicle securely using a lift.
- **Ensure the Engine and Catalyst are cool before starting.**

Step 1

Using two opposable thumbs, remove the plastic engine cover.



Step 2

Push in the clip located on top of the hood release lever and lift up to remove.



Step 3

Gently lift up from each corner to pop the plastic core support shroud off.



Step 4

Using a T20 Torx bit, unscrew the 2 screws securing the air duct to the core support.



Step 5

Pull air duct away from the core support and lift up to remove from the engine bay.



Step 6

Slide the breather hose off the connector located on the turbo inlet hose.



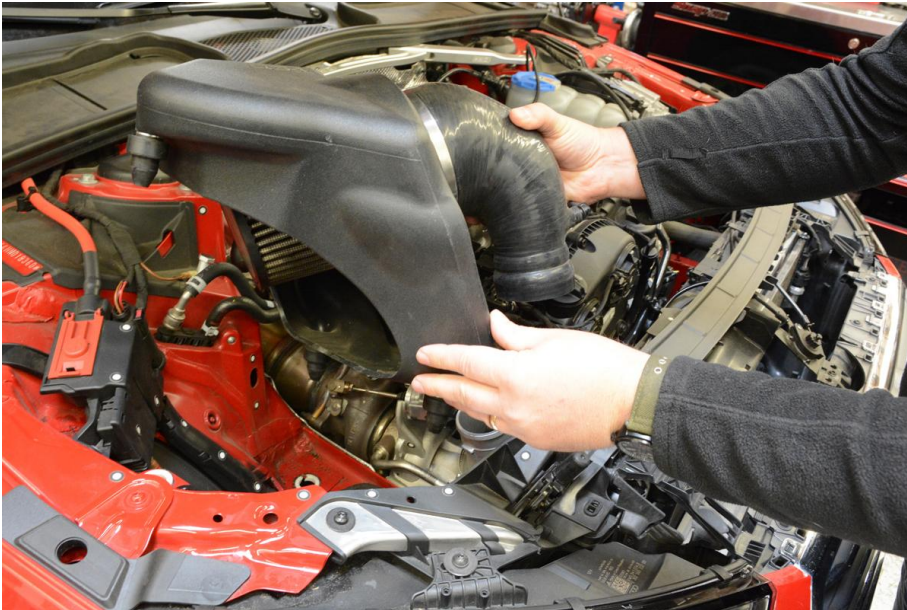
Step 7

Using a 7mm or 8mm socket (depending on clamp), loosen the clamp securing the turbo inlet hose to the turbo.



Step 8

Lift up and remove the air box and turbo inlet hose assembly from the engine bay.



Step 9

Raise your vehicle securely using a lift or jackstands. Using a flathead screwdriver, pop out the 2 clips securing the underbody panel to the car.



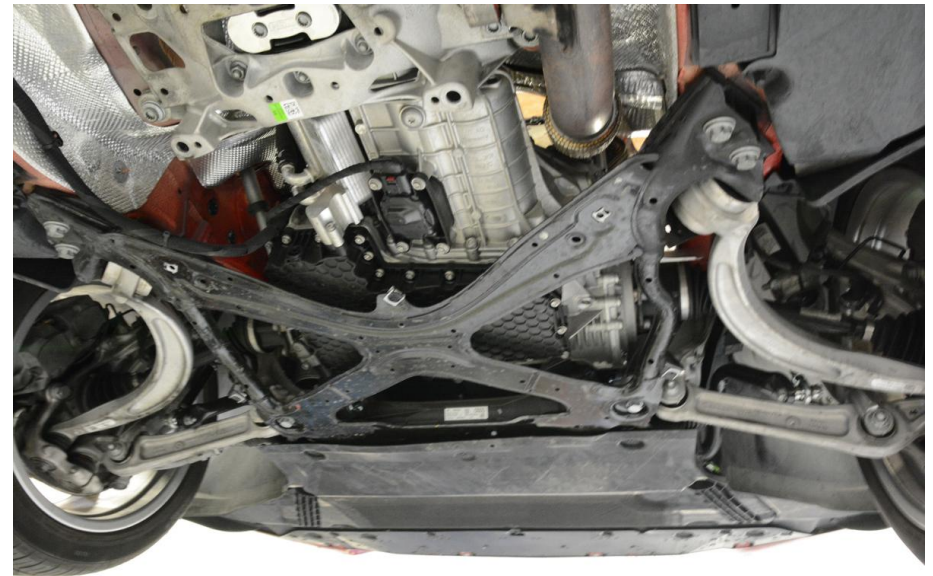
Step 10

Using a T25 Torx, unscrew the 5 ¼-Turn screws securing the underbody panel to the car.



Step 11

Remove the underbody panel from the car.



Step 12

Using a 13mm socket, loosen the exhaust clamp securing the downpipe to the midpipe.



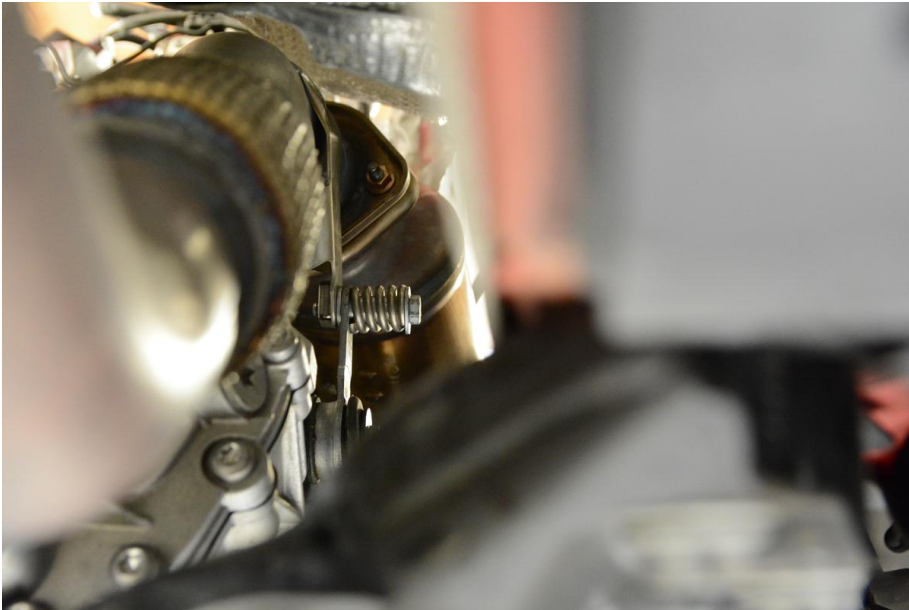
Step 13

Using a 10mm Triple Square, loosen the 2 bolts securing the lower downpipe hanger to the chassis.



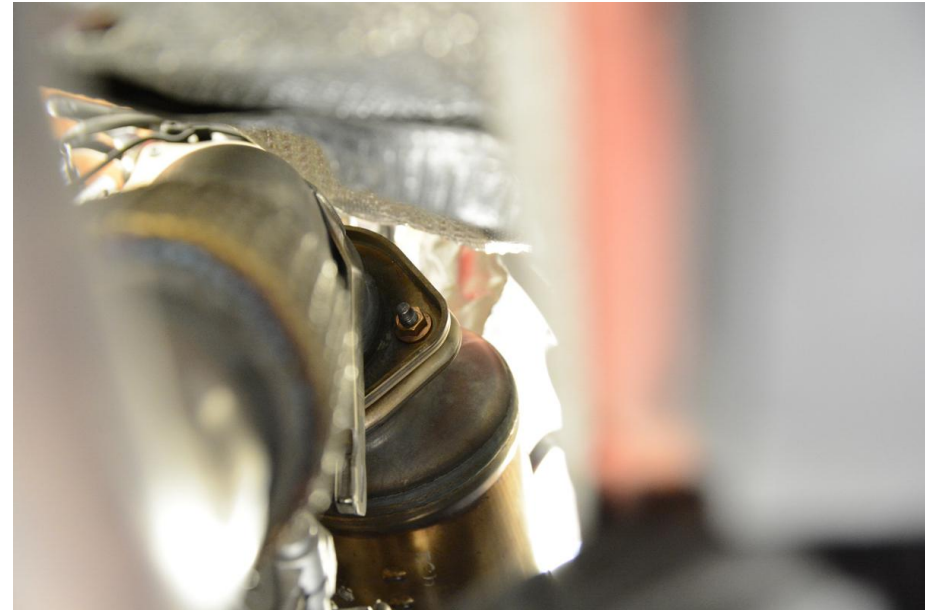
Step 14

Using a 13mm Wrench, loosen the bolt for the upper downpipe hanger and swing hanger down out of the way.



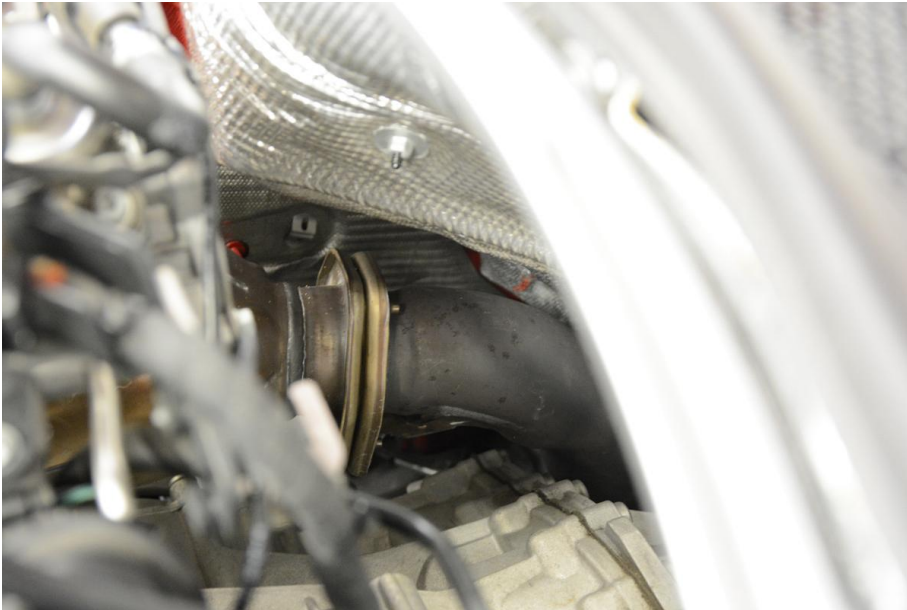
Step 15

Using a 12mm socket with extensions, remove the 1 accessible nut securing the downpipe to the factory catalyst.



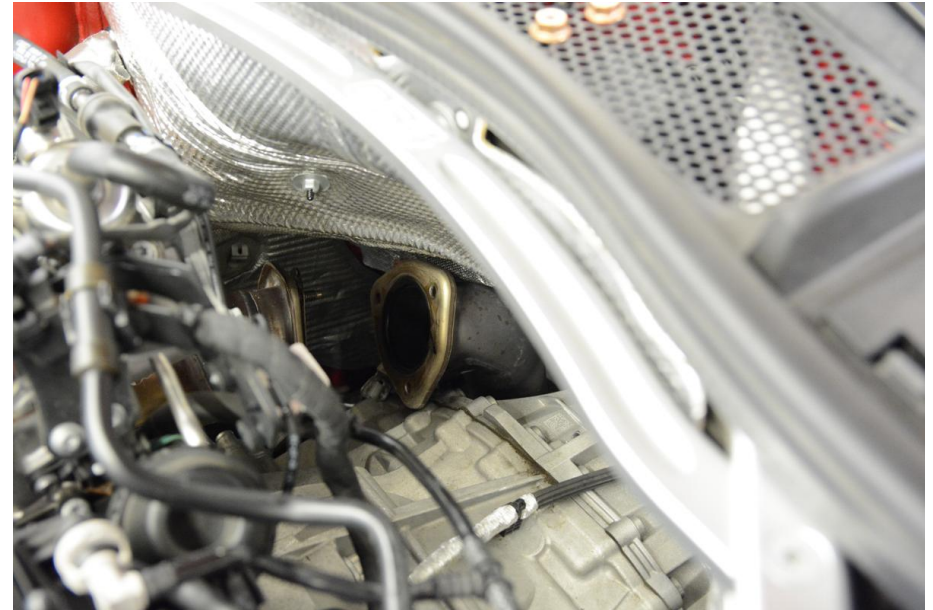
Step 16

Lower the car so that you can access the catalyst from the engine bay. Using a 12mm Socket, remove the remaining 2 nuts securing the downpipe to the factory catalyst.



Step 17

Separate the downpipe from the factory catalyst.



Step 18

Using an O2 Sensor Socket, remove the oxygen sensor from the factory catalyst.



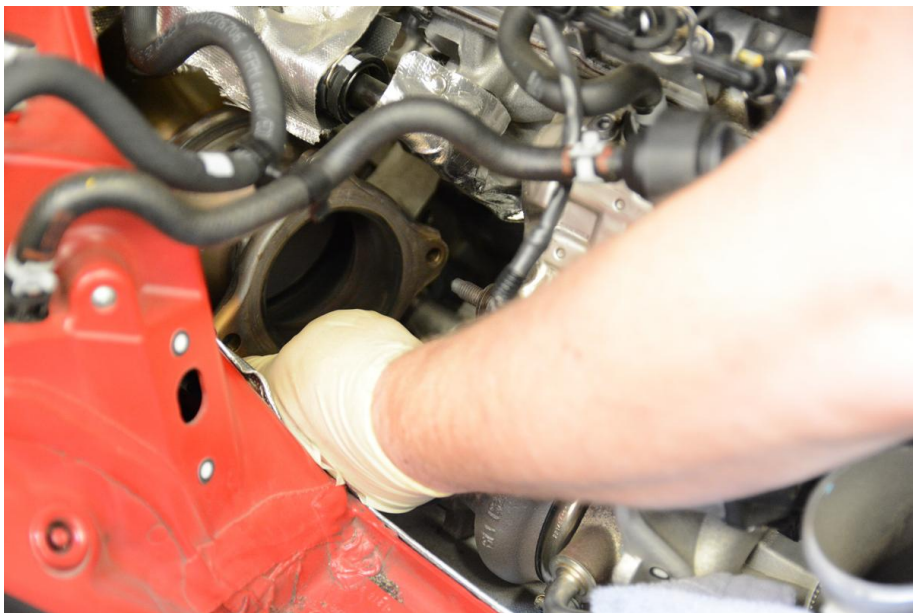
Step 19

Using a 14mm Wrench, remove the 4 nuts securing the catalyst to the turbo. For easier access to the lower 2 nuts, use extensions and a swivel socket from behind the catalyst.



Step 20

Move the factory catalyst back from the turbo toward the firewall.



Step 21

Remove the factory catalyst from the car by lifting from behind the engine, and in front of the firewall on the driver side of the engine bay.



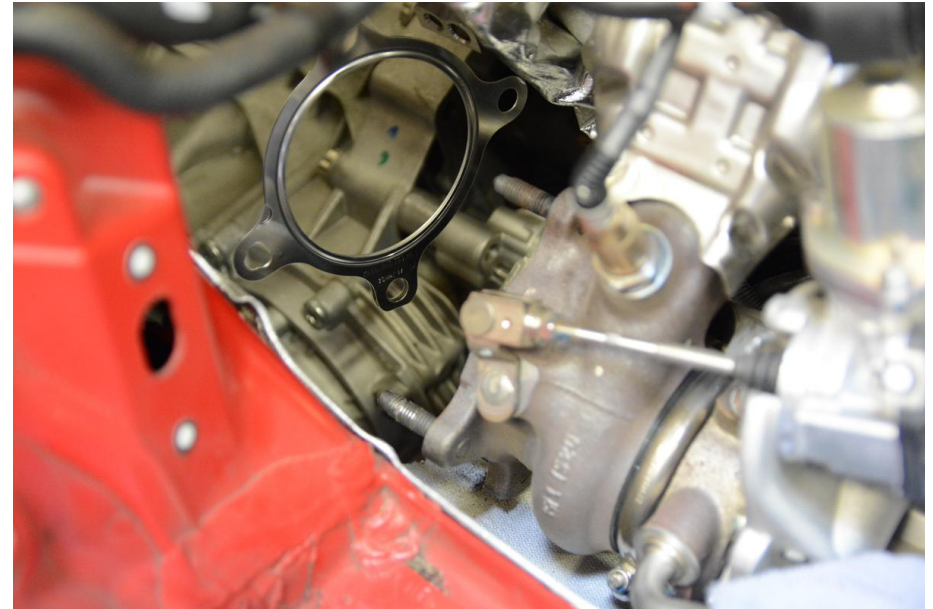
Step 22

Remove the factory gasket from turbo studs.



Step 23

Install the supplied new factory turbo outlet gasket on the studs. Orient the gasket with the flat spot facing down.



Step 24

Using a 22mm Socket, remove the plug from the O2 bung on the 034Motorsport Racing Catalyst.



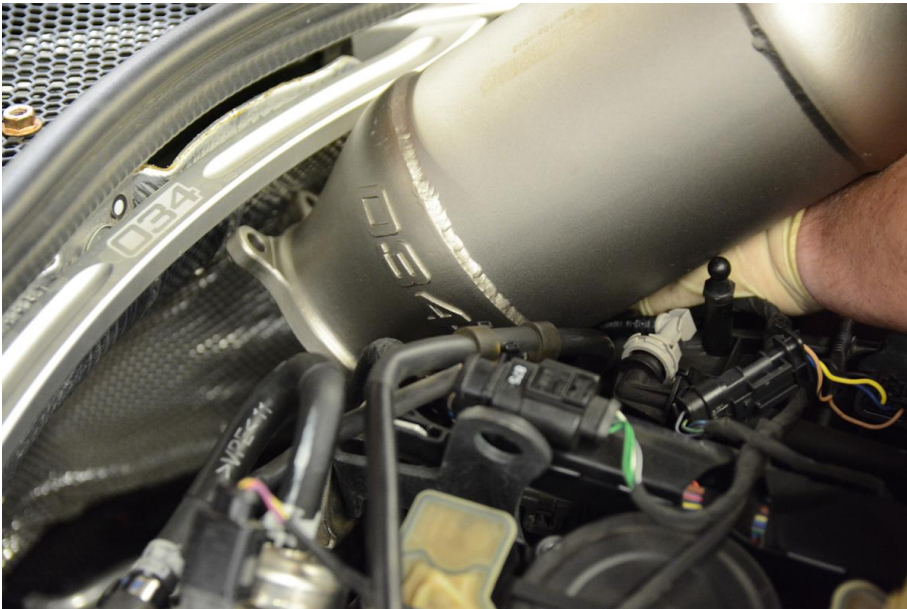
Step 25

Using a 5/32" Allen and red Loctite, install the 3 supplied M8 x 30mm Studs into the 034Motorsport Racing Catalyst. Apply anti-seize to 8mm and 10mm studs before installation.



Step 26

Install the new 034Motorsport Racing Catalyst using the reverse motion from removing the factory catalyst. Slide into position from behind the motor.



Step 27

Using a 14mm socket and wrench, install 4 supplied M10 copper locknuts securing the 034Motorsport Racing Catalyst to the turbo.



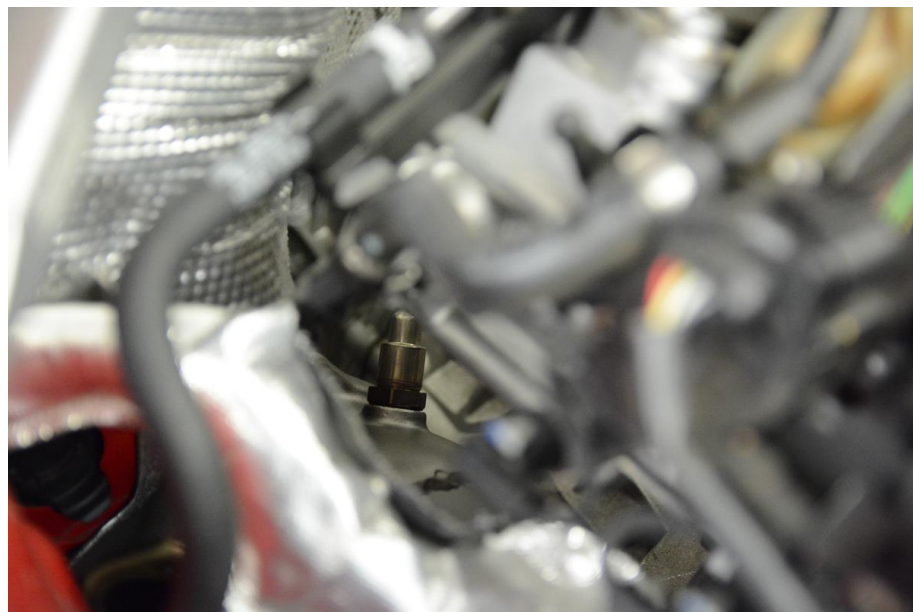
Step 28

Unclip the O2 Sensor harness from plastic retaining clip to allow for new location on 034Motorsport Racing Catalyst.



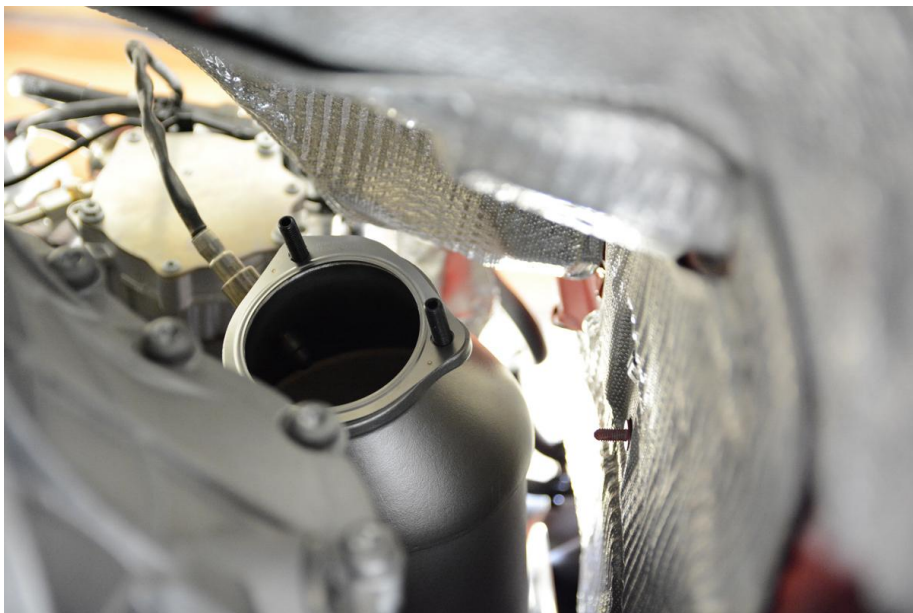
Step 29

Carefully apply anti-seize **only to the threads** of the O2 Sensor, and reinstall the sensor using an O2 Sensor Socket.



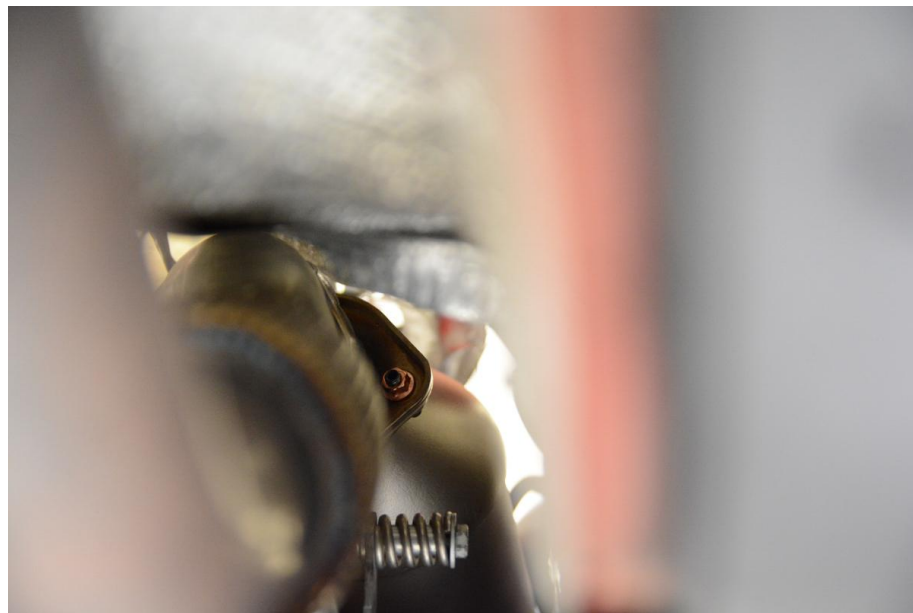
Step 30

Install the supplied factory gasket onto 034Motorsport Racing Catalyst outlet flange.



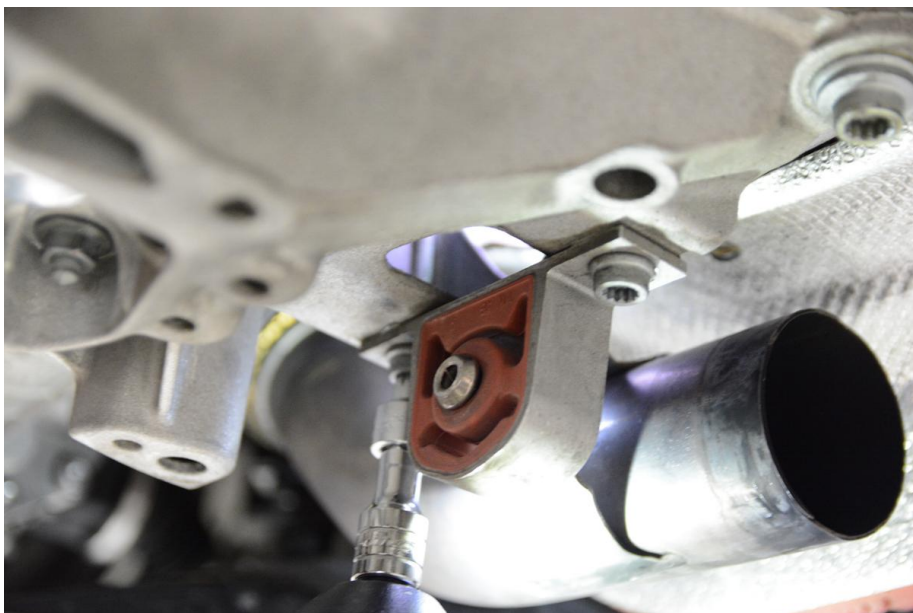
Step 31

Reinstall factory downpipe to 034Motorsport Racing Catalyst and thread in upper exhaust hanger using a 13mm Wrench. Once in place, install the supplied M8 locknuts to secure downpipe to 034Motorsport Racing Catalyst.



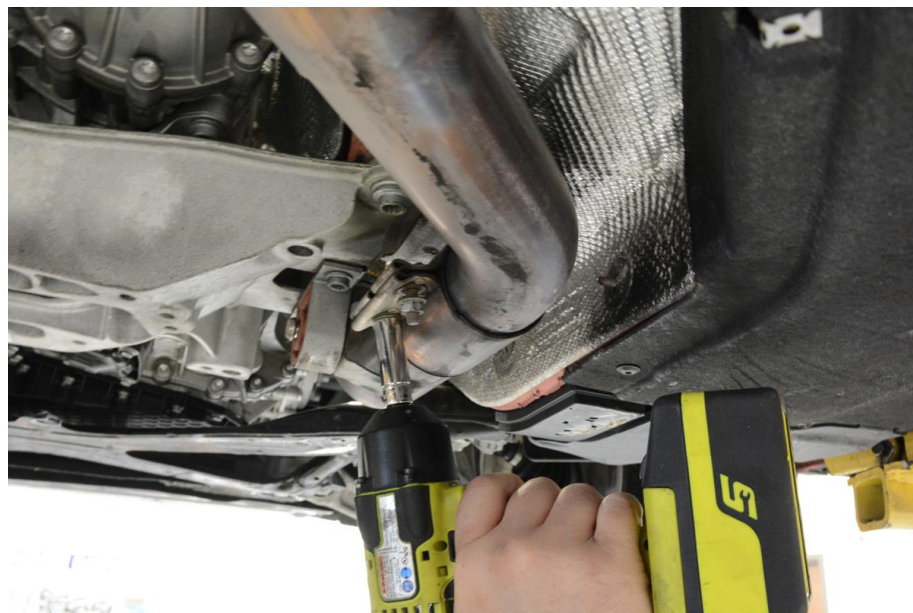
Step 32

Reinstall 2 M10 Triple Square Bolts securing lower downpipe hanger to chassis.



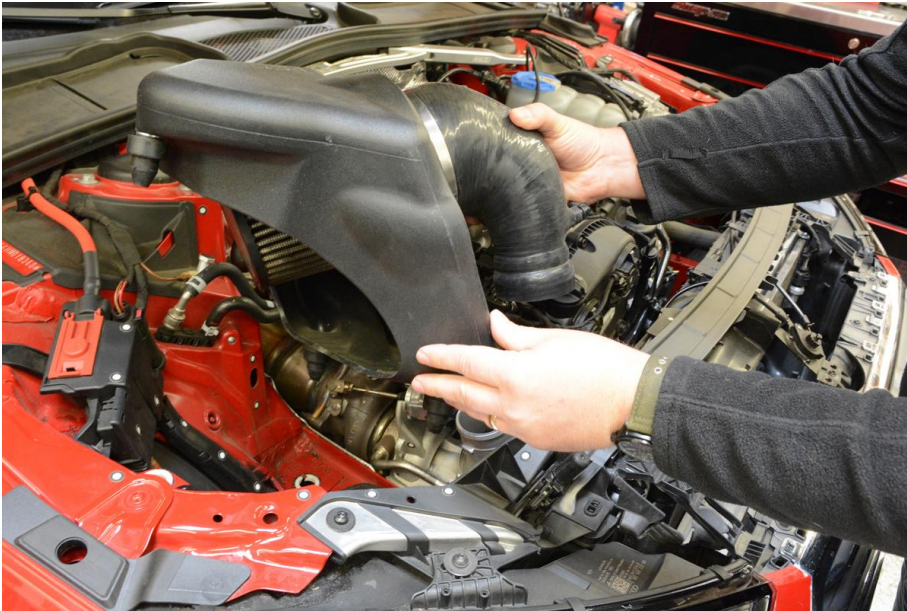
Step 33

Reinstall the factory exhaust clamp securing the downpipe to the midpipe. Once secure, reinstall factory underbody panel with 5 ¼-Turn screws and 2 push-in plugs.



Step 34

Reinstall the air box and turbo inlet hose. Secure turbo inlet hose to turbo by tightening the hose clamp with a 7mm or 8mm Socket (depending on hose clamp).



Step 35

Reinstall factory vacuum line to turbo inlet hose.



Step 36

Reinstall the factory air duct and 2 mounting screws using a T20 Torx bit.



Step 37

Reinstall the plastic core support shroud, hood release lever, and plastic engine cover.



Step 38

Ensure all connections are secure and lower your vehicle from the lift.

Important: This downpipe requires a [Stage 2 ECU remap](#) to eliminate any check engine lights due to removal of the factory catalyst.

Step 39

Enjoy the Upgrade!