

[034Motorsport High Flow Cat](#)

**034** MOTORSPORT

034Motorsport's High Flow Cat for the B9 S4 is the new standard in performance. This high flow cat was engineered with performance in mind. Manufactured from Stainless Steel, for strength, and long lasting reliability.

Installation Spiciness Rating



(Medium)

Installation of your 034Motorsport High Flow Cat is a straightforward process that will take approximately 3 hours to complete.

Supplied Parts:

- 034Motorsport High Flow Catalytic Converter
- All necessary gaskets and hardware

Tools Needed:

- Assorted extensions and wobbles
- 12mm socket
- 13mm socket
- 12mm wrench
- 13mm wrench
- 10mm triple square
- T-25 Torx
- T-30 Torx
- Two hands, with most of your fingers
- A friend that owes you a favor (optional)

About This Guide

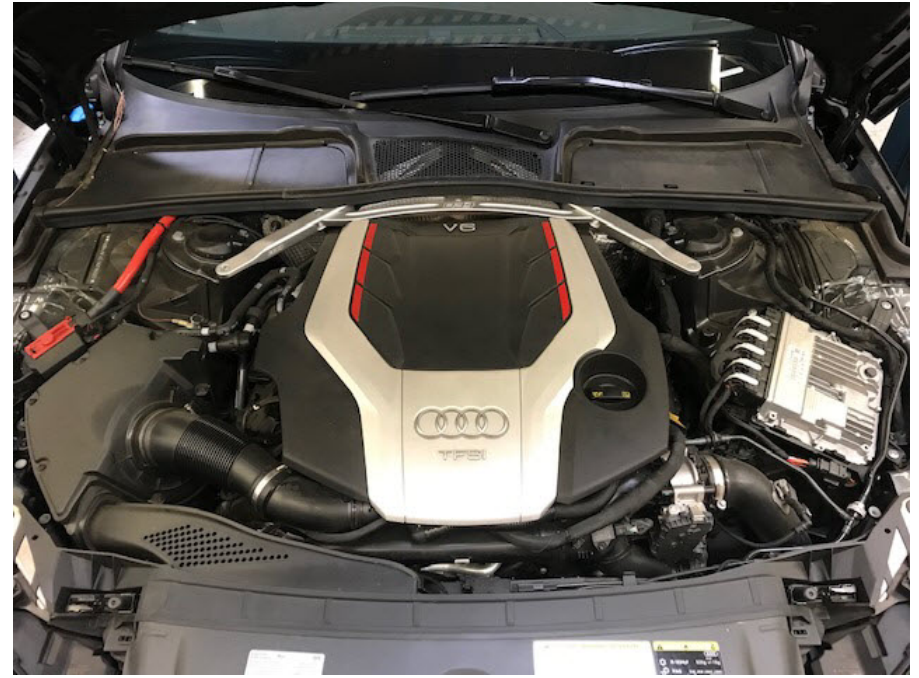
This Install Guide documents the installation process on a 2018 Audi S4. There may be minor differences in the engine bay of other vehicles, depending on specific vehicle, market, options, etc.

Getting Started

- Ensure you have all parts and tools required for installation by reading the complete Install Guide.

Step 1

Open Hood



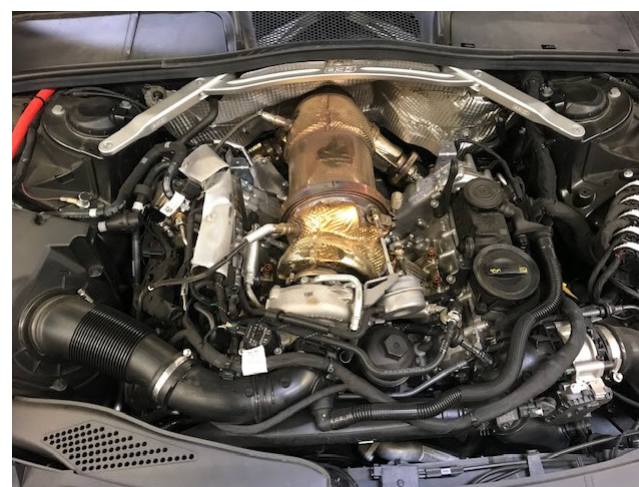
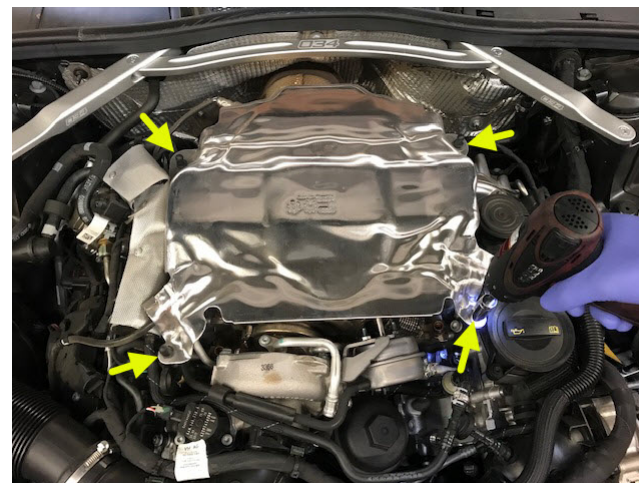
Step 2

Remove engine cover.



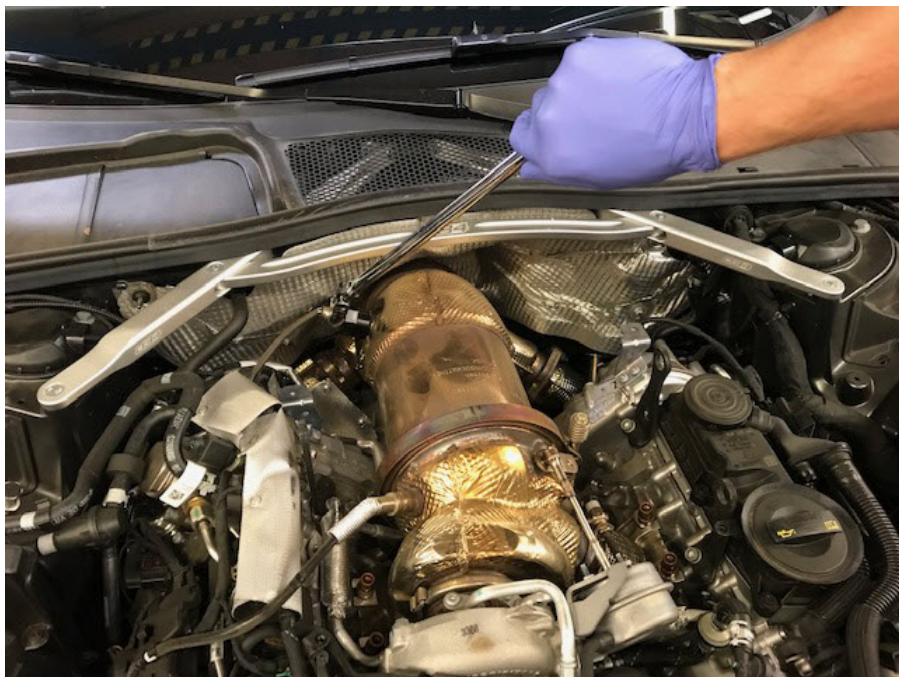
Step 3

Using a 13mm deep-socket, remove the engine heat shield by removing the four engine cover mounting studs. Be sure to look out for and remove/unclip the O2 sensor harness at the front left of the cover



Step 4

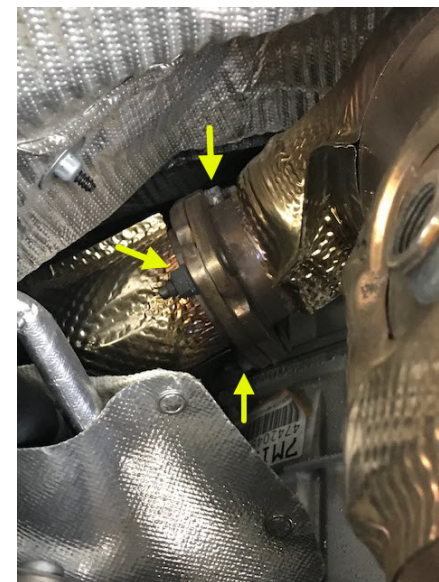
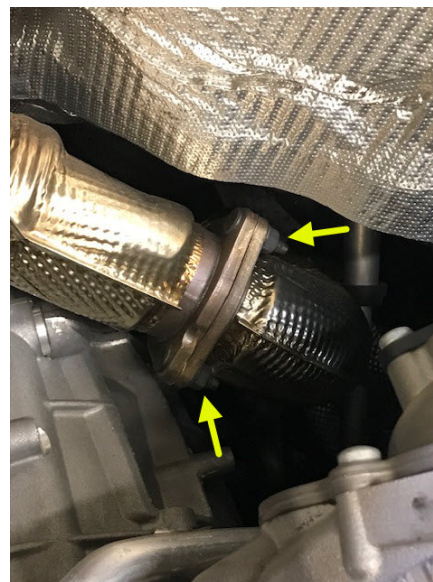
Remove the O2 sensor.



Step 5

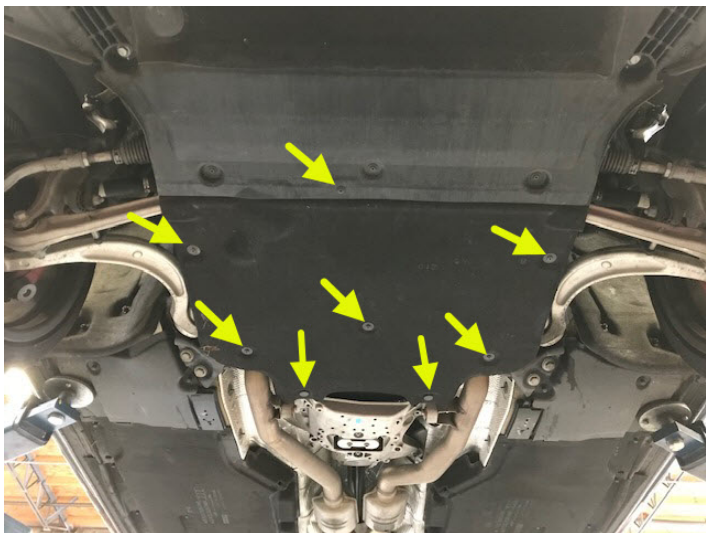
Remove the downpipe nuts that are accessible from the engine bay (two per side).

Tip: Spray each nut with a thread breaker (liquid wrench, etc.) and let soak for a little while before trying to loosen.



Step 6

Using a T25 Torx and a small screwdriver, remove belly pan.
There are (6) T25 screws and (2) push-pin plugs.



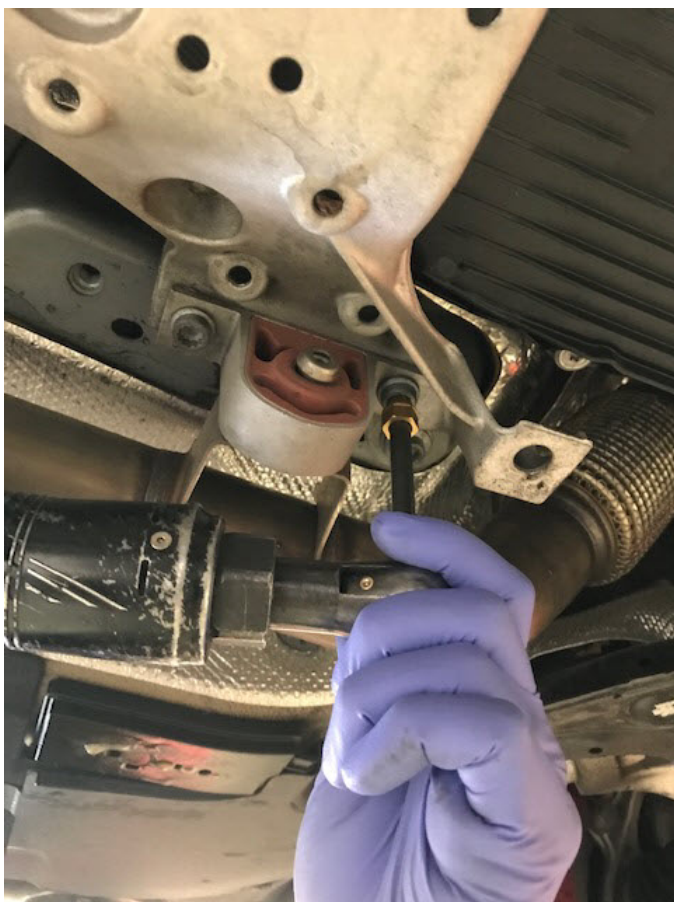
Step 7

Using a 13mm wrench, disconnect the downpipe support brackets (one on each side).



Step 8

Disconnect the downpipe hanger brackets from the transmission mount, on both sides.



Step 9

Remove final nut from each downpipe-to-cat connection (nearest the firewall).

Helpful hint: you may need to get creative in reaching these last two nuts.



Step 10

Using a T-30 Torx, loosen the turbo v-band clamp.



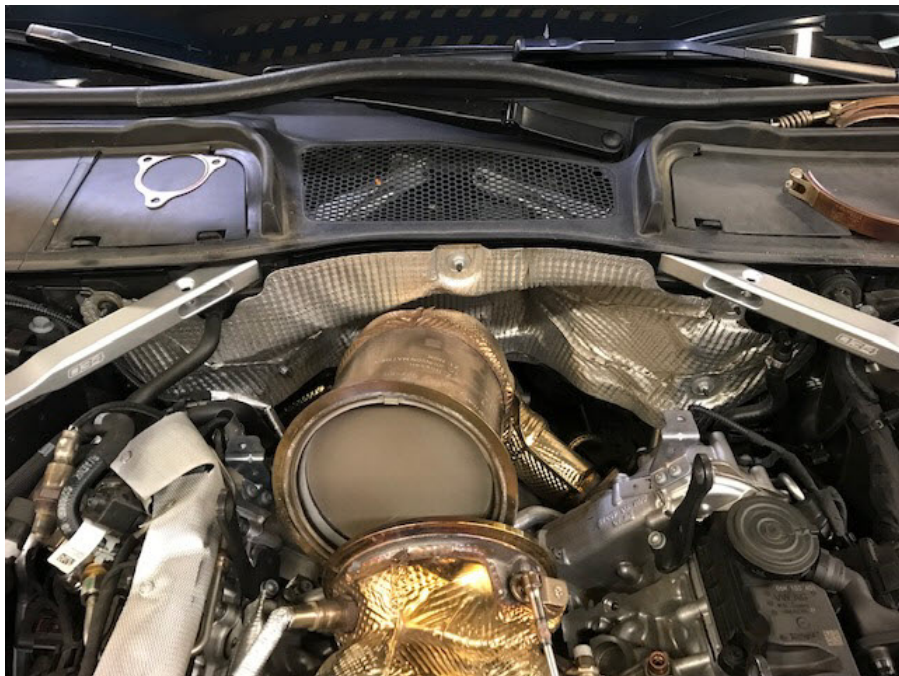
Step 11

Gently pry the v-band clamp off of the turbo and downpipe.
Be careful not to damage the v-band.



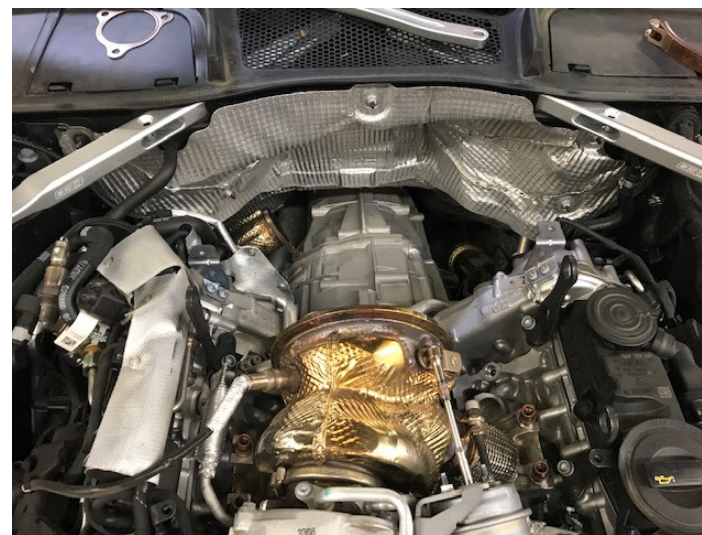
Step 12

If the 034Motorsport Front Strut Brace is installed, you will have to remove the cross piece in order to remove the cat.
(5mm Allen wrench, 13mm socket)



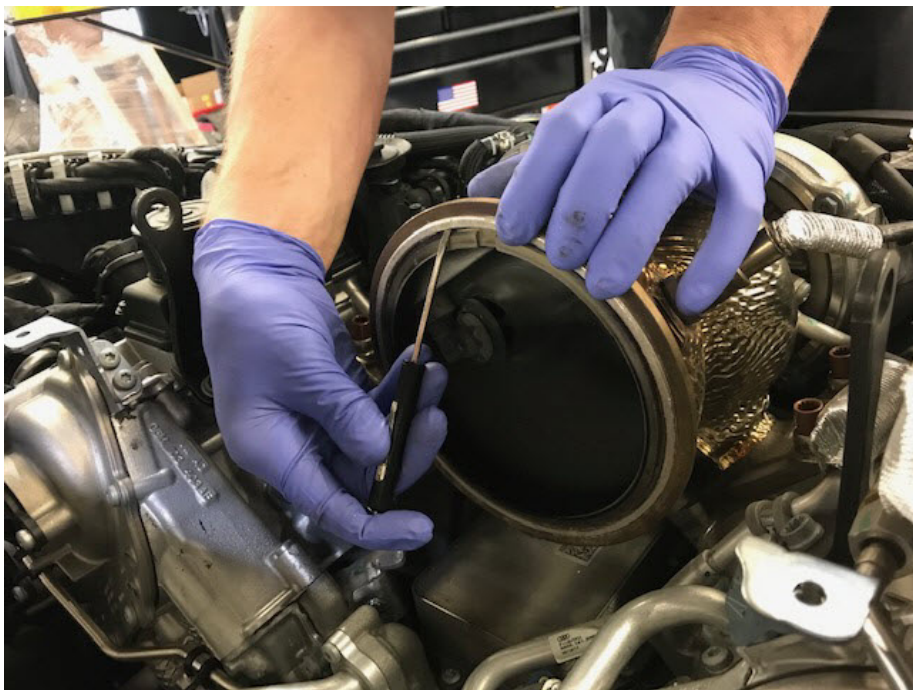
Step 13

Remove the OE cat.



Step 14

Using a small pick or screwdriver, remove the sealing ring from the turbo outlet v-band flange.



Step 15

Replace sealing ring with the one supplied.



Step 16

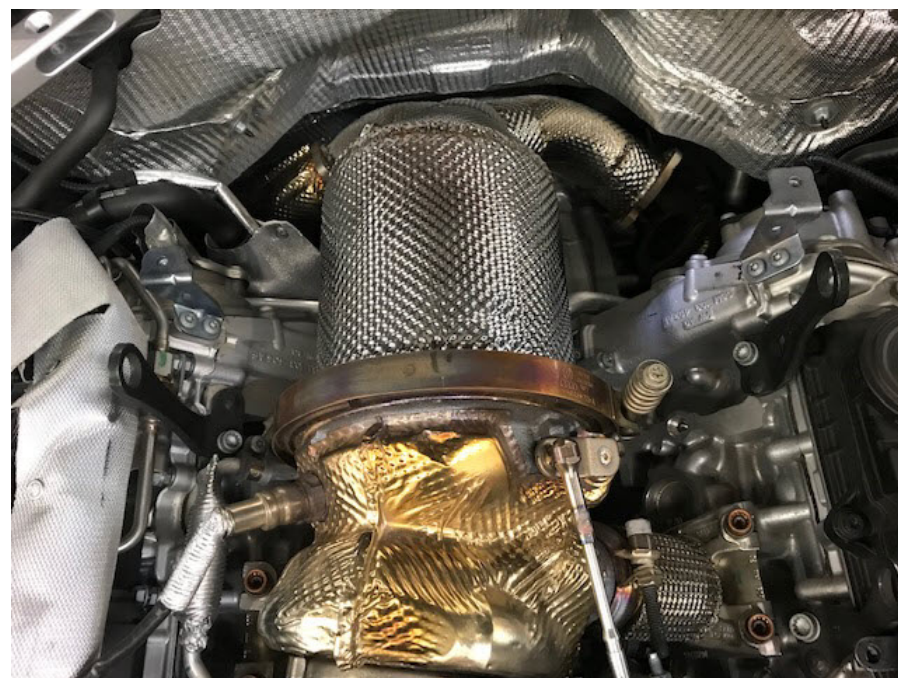
Install the 034Motorsport High Flow Cat. There is a key inside the v-band that locks into a keyway on the turbo outlet (it can be seen in the previous photo).



Step 17

This is a good time to collect on a favor owed to you. While holding the cat in place, position the v-band clamp into position, and tighten the v-band clamp's bolt.

Torque to 7NM.



Step 18

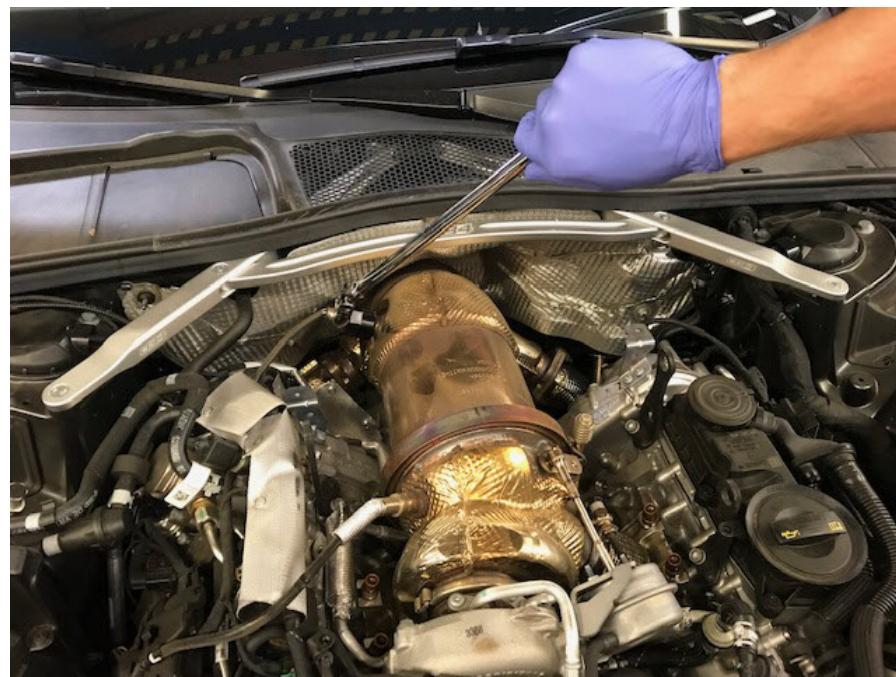
Connect the downpipes to the HFC outlets with the provided hardware and gaskets. Do not tighten the hardware until all are installed.

Note: Some bolts may be oriented in different directions due to fitment against downpipes and cat.



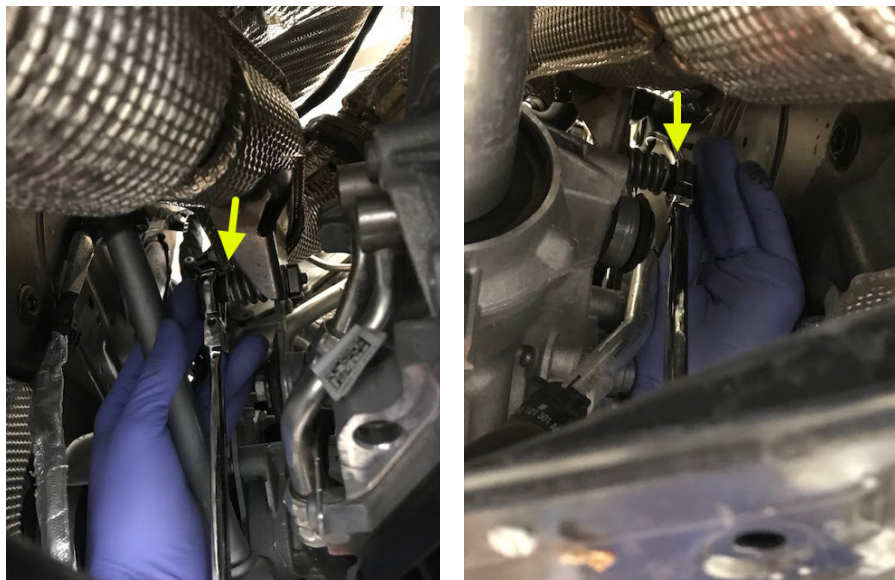
Step 19

Reinstall O2 sensor (removed in Step 4).



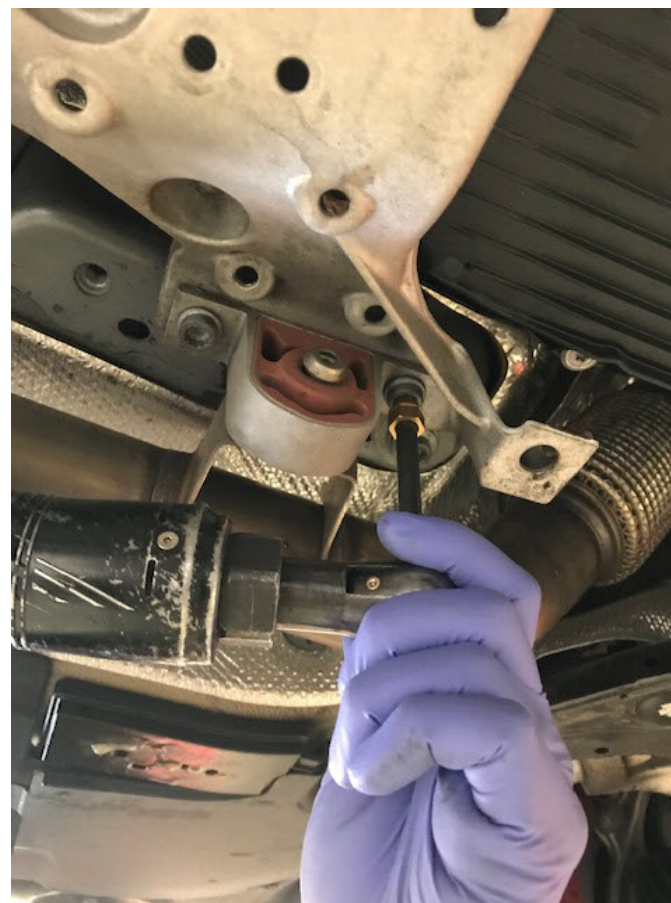
Step 20

Reconnect downpipe brackets removed in Step 7.



Step 21

Reconnect the downpipe hanger brackets to the transmission mount, on both sides (removed in Step 8).



Step 22

Double check all hardware connections to ensure everything is tight.

Step 23

Reinstall the belly pan (removed in Step 6).



Step 24

Reinstall the (034Motorsport Front Strut Brace cross member (removed in Step 12).

If not applicable, why not?!? You should have it, it's beautiful!

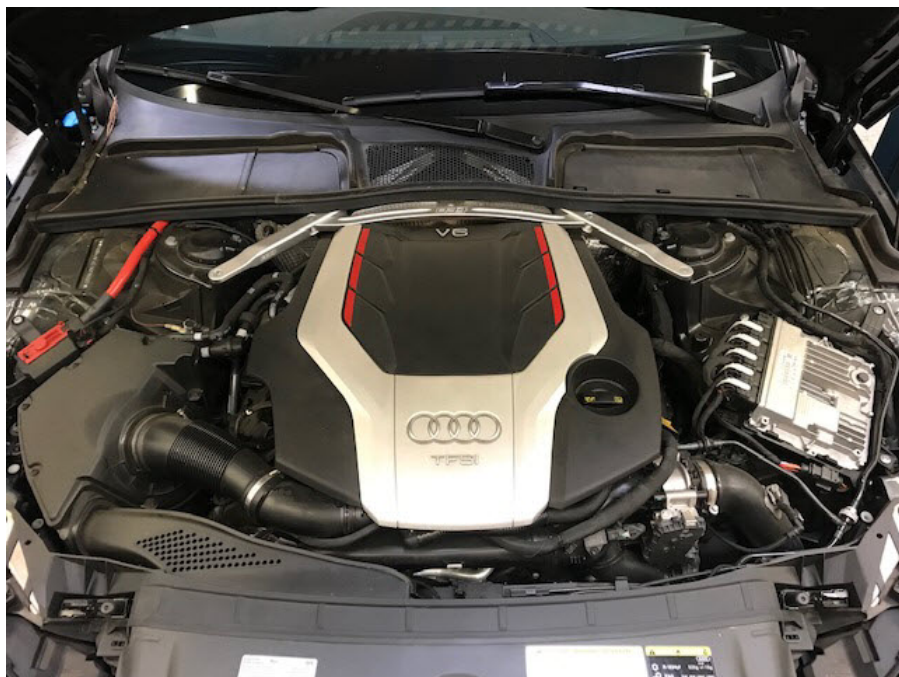
Step 25

Reinstall the engine heat shield (removed in Step 3).



Step 26

Reinstall engine cover (removed in Step 2).



Step 27

Close the hood and enjoy the music and performance of your 034Motorsport High Flow Cat!