



INSTALLATION GUIDE

CTS Turbo C7 AUDI S6/S7 Downpipes



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WHAT IS INCLUDED

1. CTS Downpipes
2. Gaskets
3. O2 sensor extensions
4. Hardware

NOTES

Vehicle used in this guide is a 2016 Audi S6. Product in pictures may look different, but installation procedure is the same. Always make sure the car is safe to work on. Do not work on a hot motor. We do not accept any liability for incorrect installation or damage during the install.

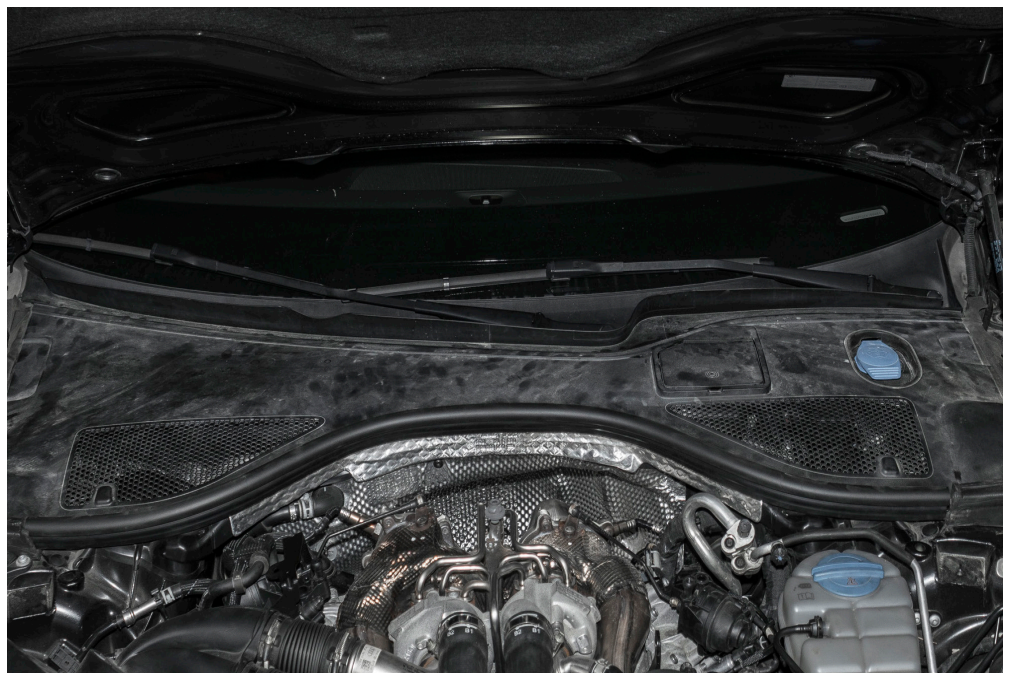
STEP 1

Disconnect the battery in the trunk using a 10mm socket.

**STEP 2**

Remove the weather stripping and rain tray.

The weather stripping and tray will come towards you for removal.

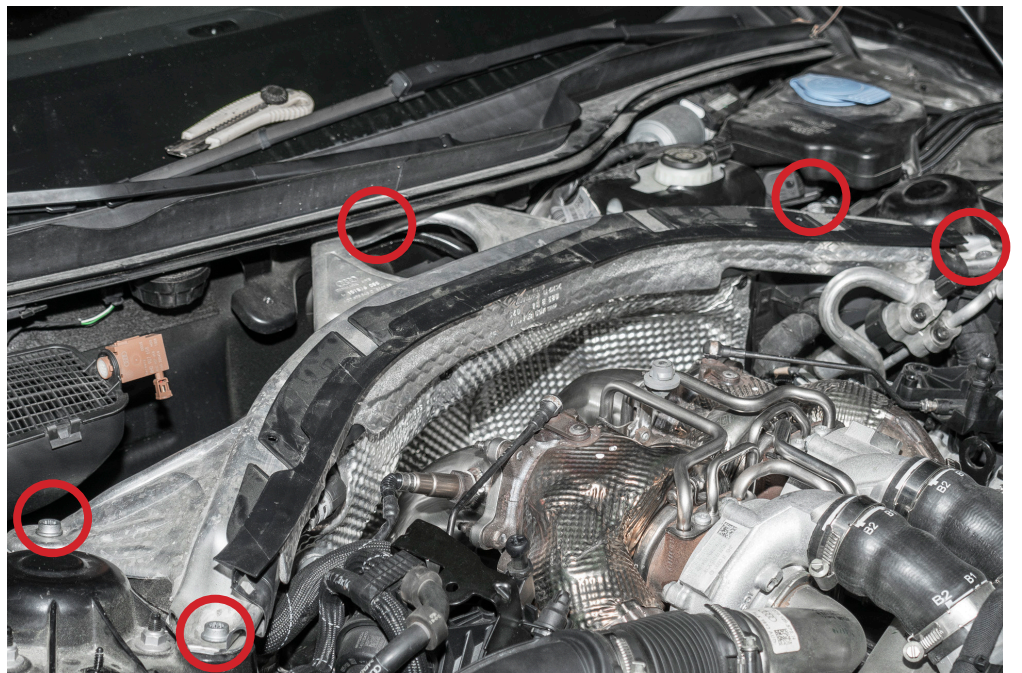


STEP 3

Remove the two T25 screws holding the bulkhead to the strut brace.

**STEP 4**

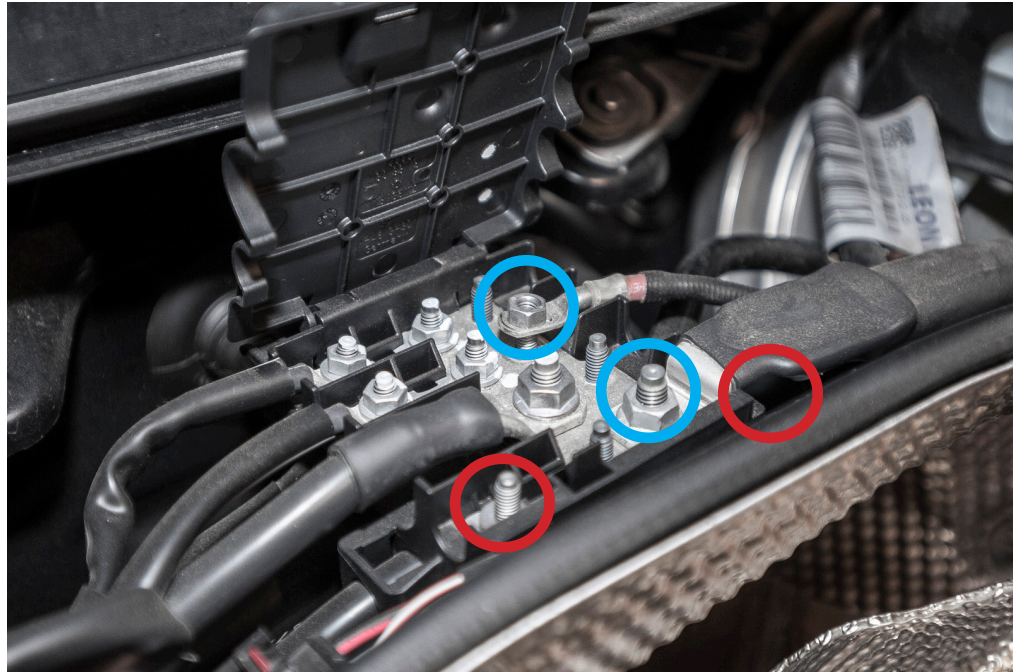
Remove the 5 triple square screws holding the strut tower.



STEP 5

At the electrical junction box you will need to remove two ground connectors marked in blue.

Remove the two 10mm nuts holding the junction box to the bulkhead indicated in red

**STEP 6**

Disconnect the electrical connector.



STEP 7

Move the junction box out of the way toward the right side of the vehicle

**STEP 8**

Remove the brake booster vacuum line from the back and the front of the bulkhead.



STEP 9

There are 2 metal clips that need to be removed from the threaded studs on the bulkhead.

The bottom left and top right studs are the ones to be removed.

*Left meaning the left side of the car.

**STEP 10**

On the right side pull the heat-shield forward to reveal the 10mm nut and remove



STEP 11

On the left side of the vehicle remove the O2 sensors using a O2 socket.

We suggest marking the O2 sensors with a sharpie.

We have number 1 as the upper and 2 as the lower O2 sensor

**STEP 12**

Now pull the heat-shield forward on the left side and you will see a T25 torx screw that needs to be removed.



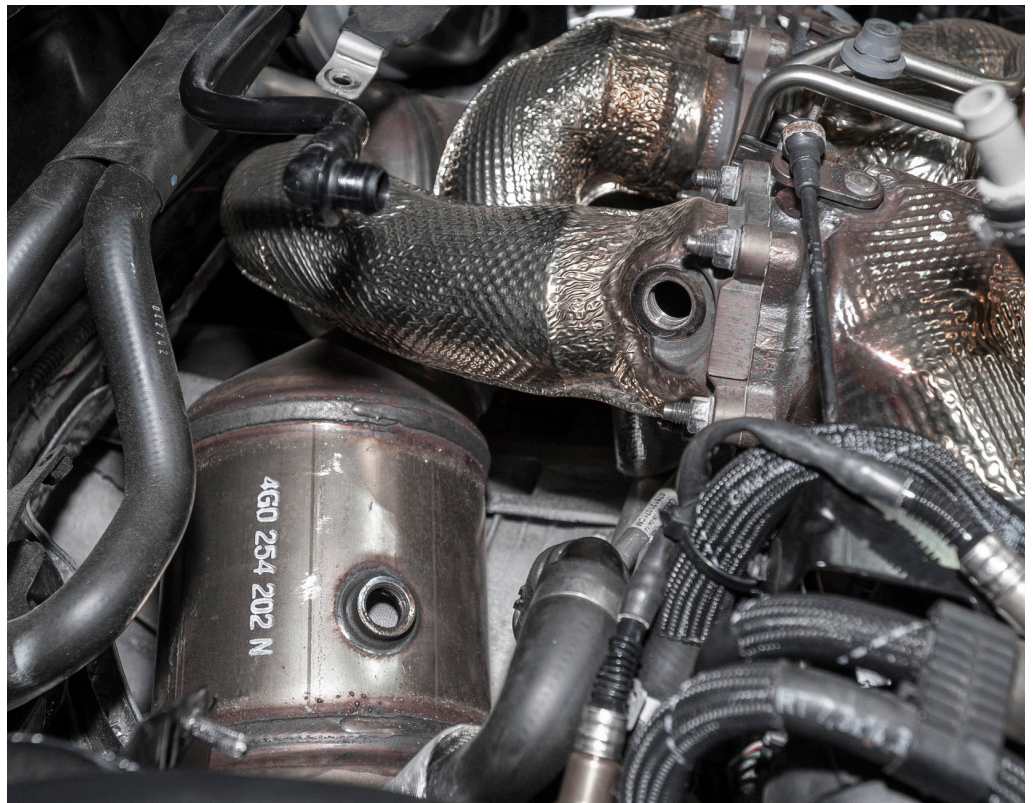
STEP 13

Now you can remove the heat-shield and bulkhead.

Pull it forward slightly and then lift it out.

**STEP 14**

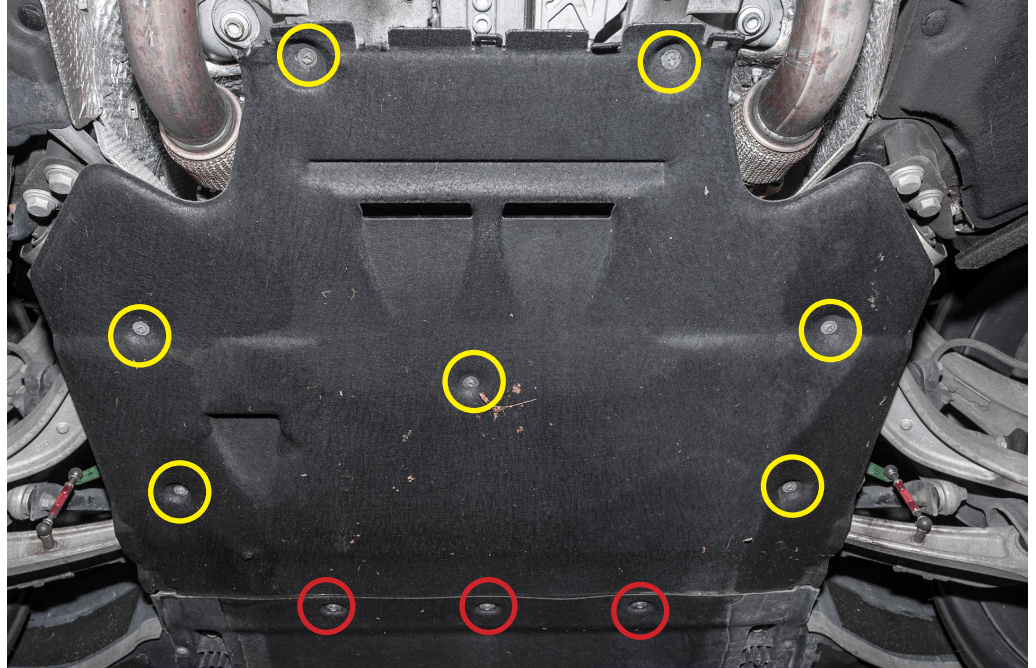
Remove the O2 sensors from the right hand side using an O2 socket. Mark the sensor location. In our case top is 1 and bottom is 2



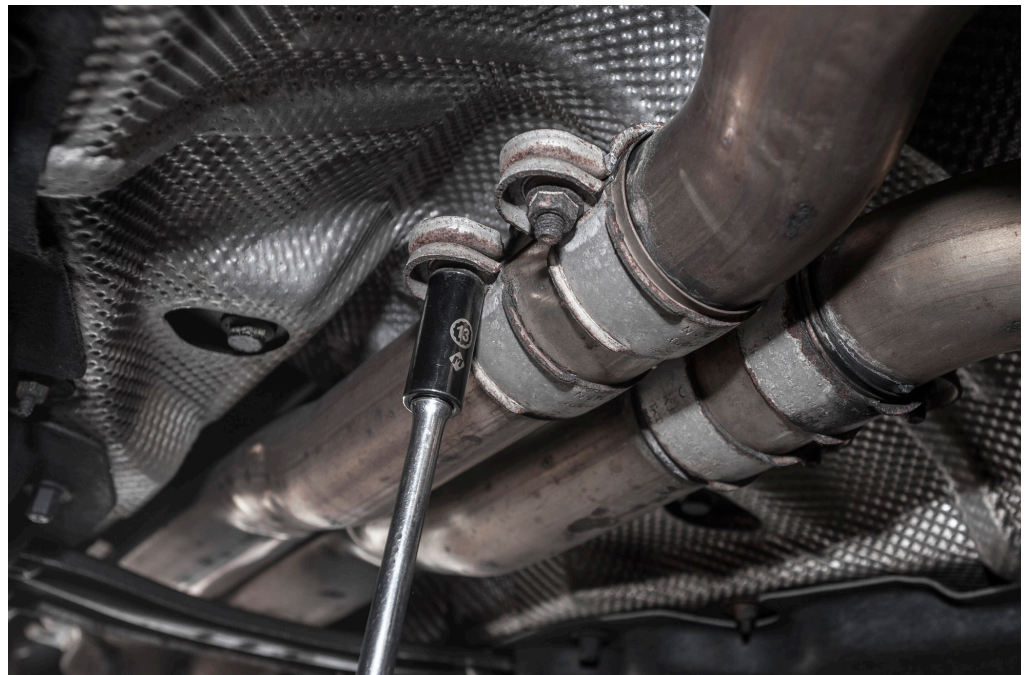
STEP 15

Using a flat head or philips screw driver remove the under belly tray screws marked in yellow.

Remove the three T25 torx bolts marked in red

**STEP 16**

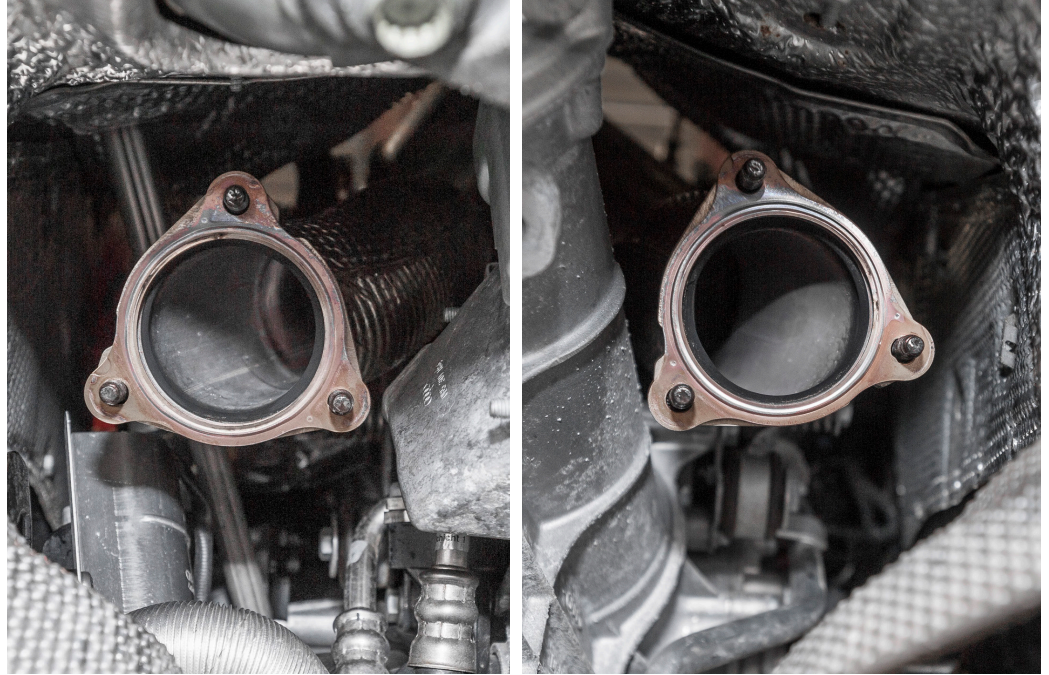
Using the 13mm socket loosen the sleeve clamps on both sides and slide them backward.



STEP 17

Each side has three 12mm bolts holding the OEM downpipes and midpipes.

Remove bolts and midpipes from the vehicle

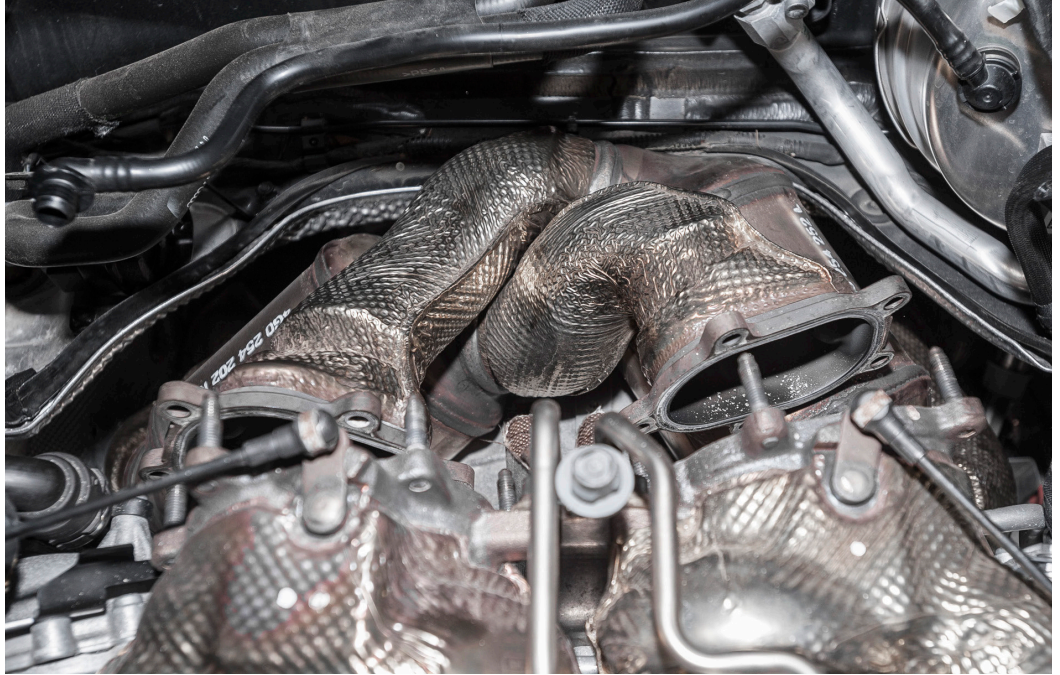
**STEP 18**

Remove the downpipe brackets attached to the gearbox on both sides with a 13mm socket.



STEP 19

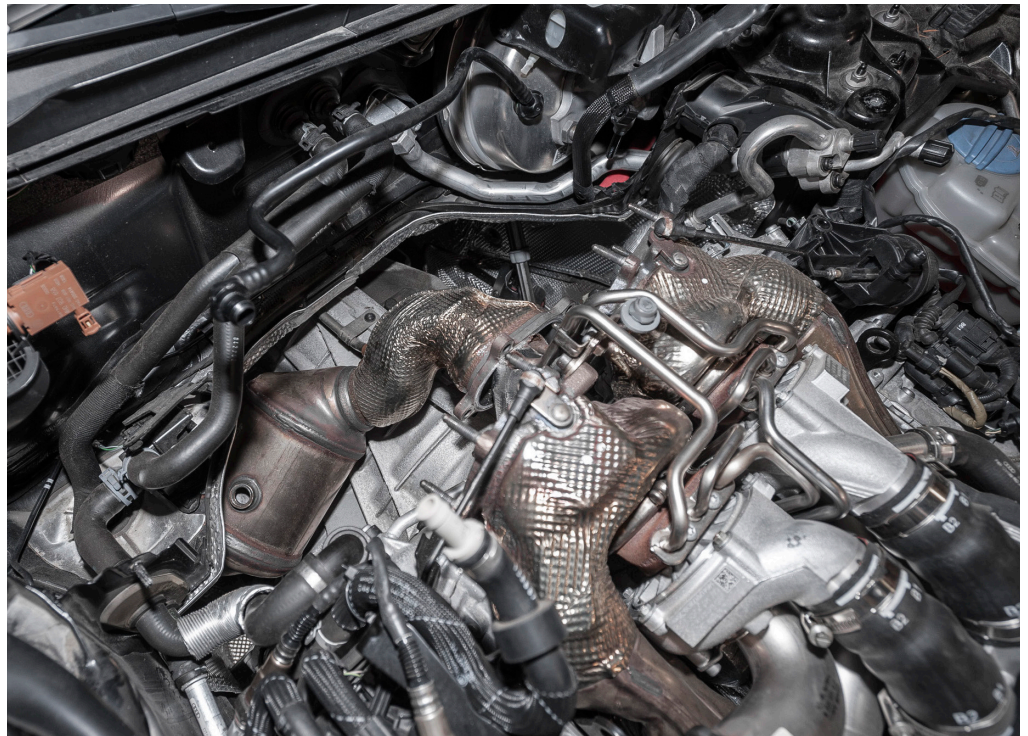
Remove the ten 12mm nuts holding both downpipes to the turbos and let them rest on each other.

**STEP 20**

You will need to maneuver the downpipes a bit to get them out.

It is going to be easier to remove the left side OEM downpipe first.

Then remove the right side downpipe.



STEP 21

For the left hand side downpipe remove the lower O2 sensor and connect the provided O2 extension.

**STEP 22**

Take the O2 sensor we removed and install it on to the lower O2 port on the left downpipe.

*Use some anti seize on the thread of the O2 sensors.



STEP 23

Carefully install the left downpipe with the provided gaskets and make sure the O2 connector is not getting damaged.

Attach and tighten the 12mm turbo flange outlet nuts to 23nm

**STEP 24**

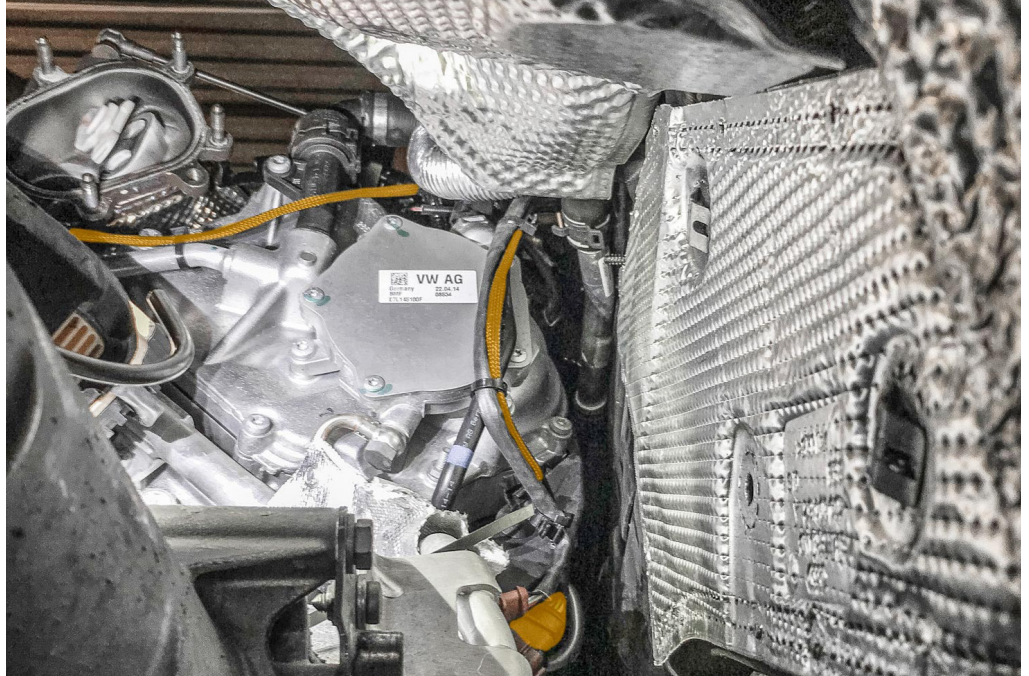
Once the downpipes are fitted we need to route the O2 sensor extensions.



STEP 25

On the right hand side of the vehicle trace O2 sensor number 2.

Remove and install the O2 extender and follow the path and install with cable ties provided.

**STEP 26**

Install the 12mm turbo flange out let nuts and torque to 23nm

Install O2 sensor to downpipe and install downpipe to vehicle. Attach routed O2 extension to O2 sensor.

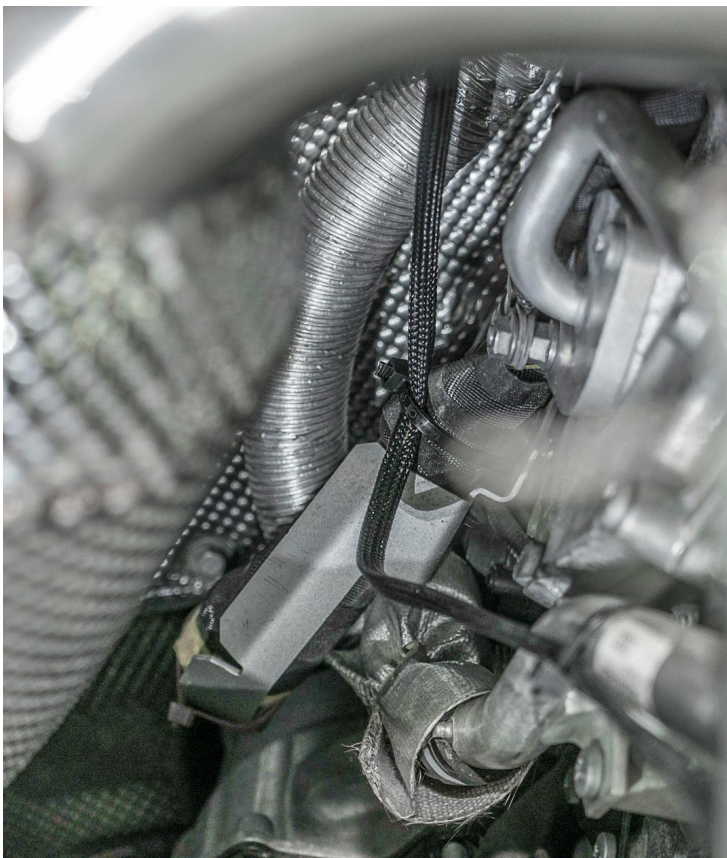
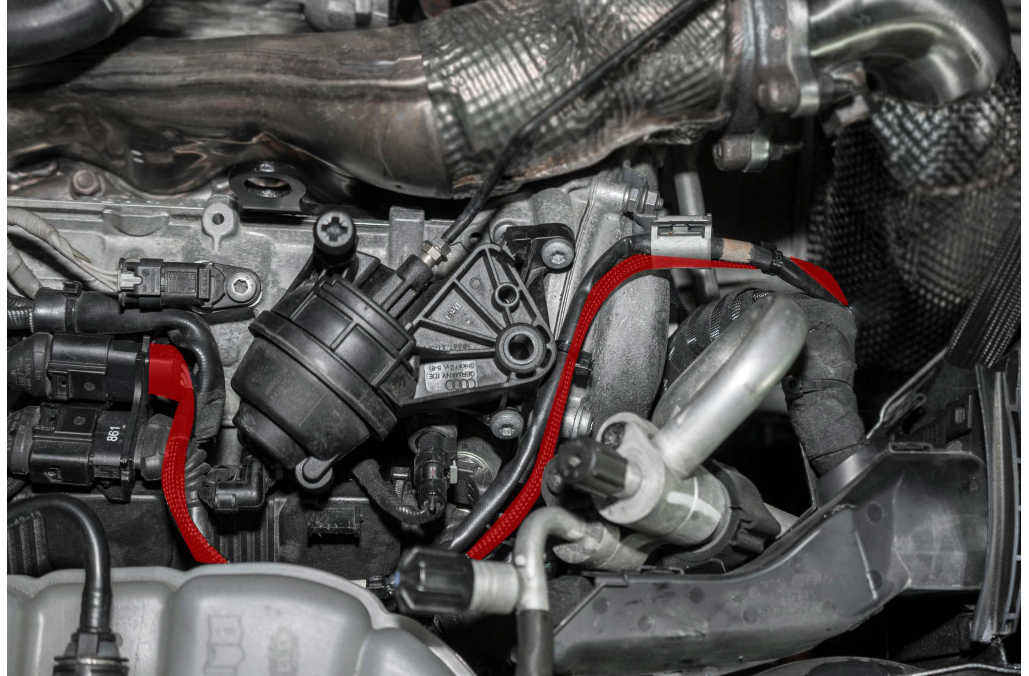
Connect to extension harness and O2 sensor and install on to the downpipe.



STEP 27

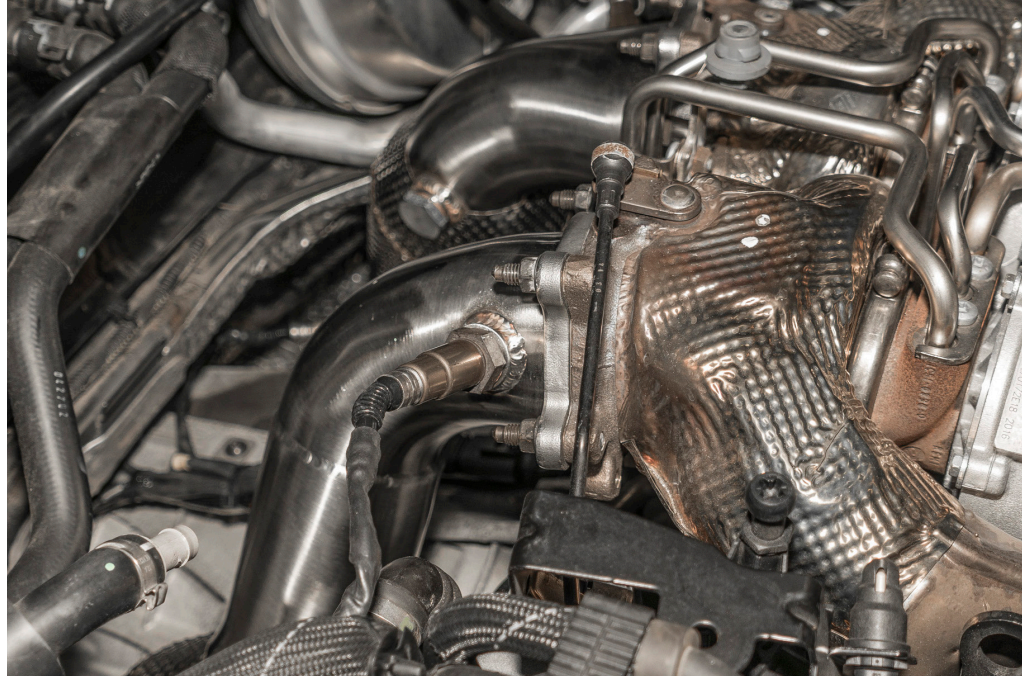
On the left side of the vehicle you can install the upper O2 sensor (number 1)

Take note of how the extender for the lower O2 sensor is mounted with cable ties.



STEP 28

Install the upper (number 1) O2 sensor on the right hand downpipe.

**STEP 29**

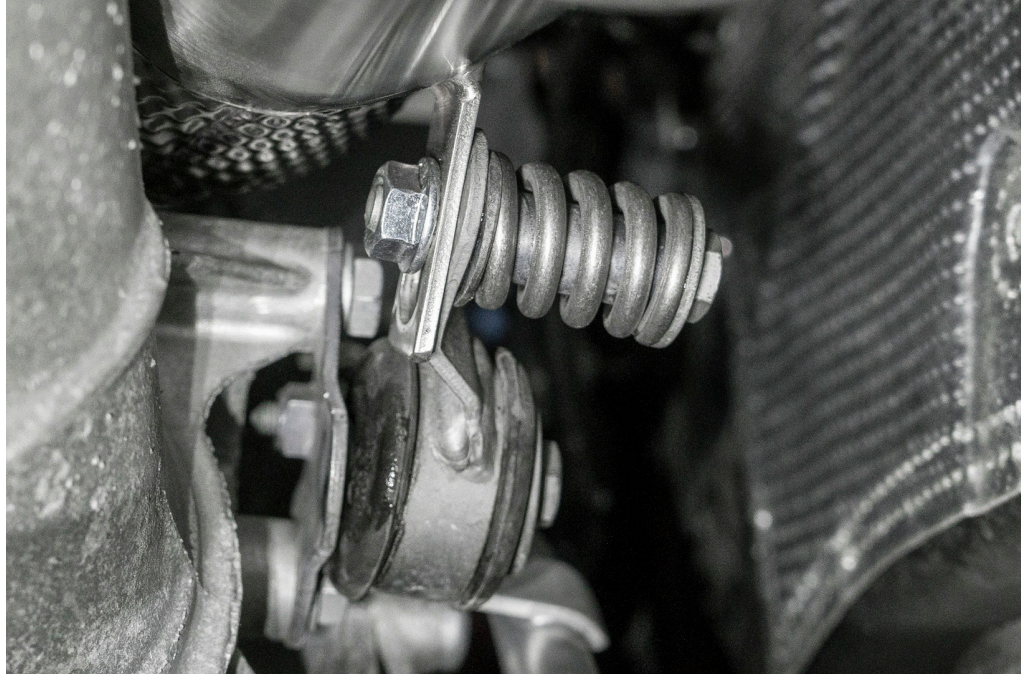
On both downpipes install the provided block offs and washers.



STEP 30

Transfer the spring clamps from the OEM downpipes and install on to CTS downpipes.

Reinstall 13mm bolt to the gearbox mount.

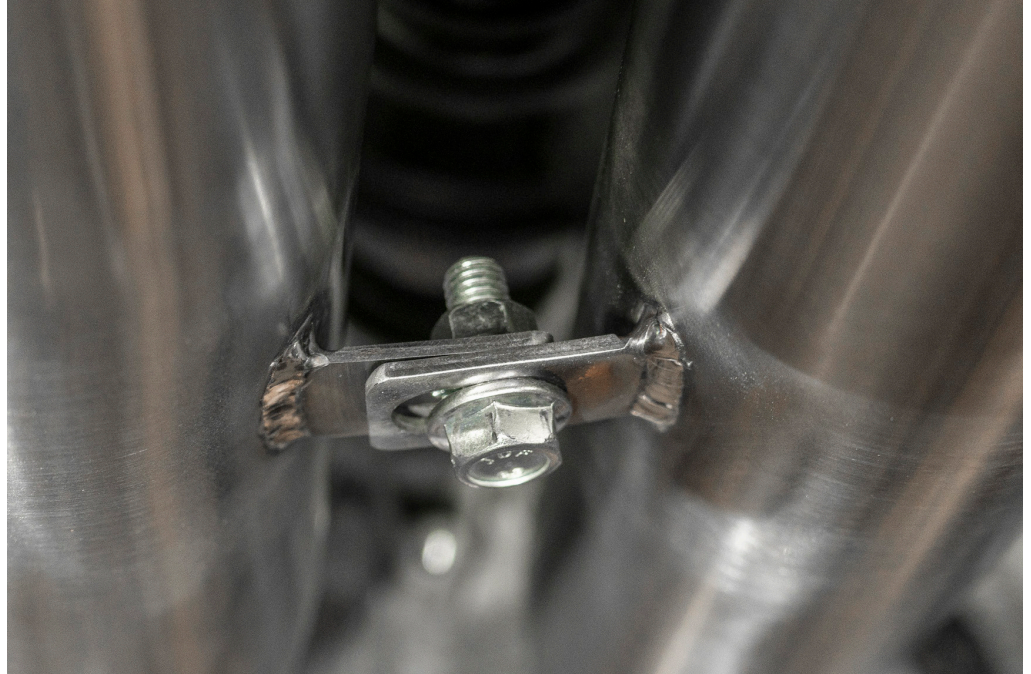
**STEP 31**

Install the CTS midpipes and clamps.



STEP 32

Fasten the midpipes together with the provided 13mm bolt and nut

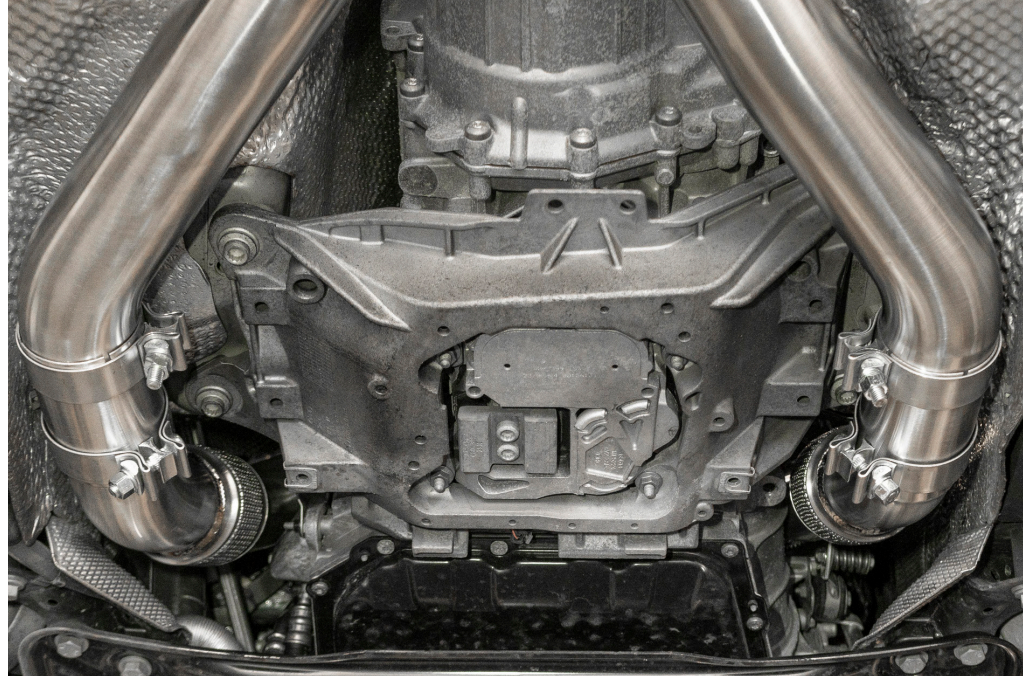
**STEP 33**

Slide the sleeve clamps on to the midpipes and tighten.



STEP 34

Tighten the clamps on the downpipes.

**STEP 35**

Reinstall the under belly tray.



STEP 36

Reassemble
from STEP 13
backwards.

Make sure to check
all connections and
clamps along the
way.

