

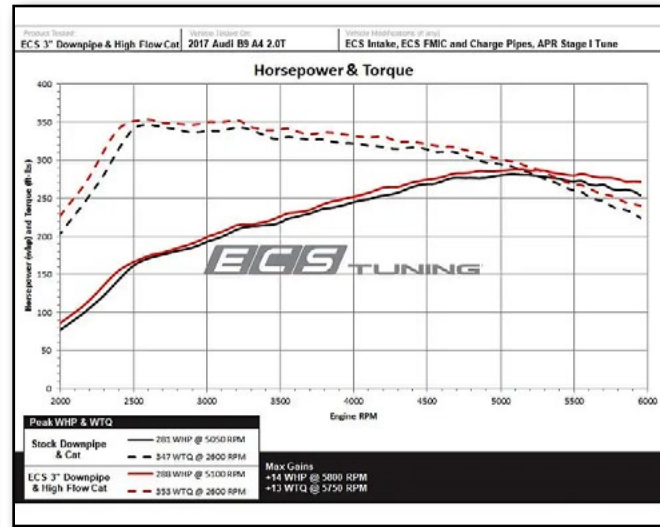


Audi B9 2.0T Downpipe w/High Flow Catalytic Converter Installation Instructions - Click [HERE](#) to shop



Skill Level 1 - Easy

Basic Skills
Required



Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.

INTRODUCTION

Today we are going to install our ECS Tuning high flow catalytic converter kit for the Audi B9 A4. This high flow cat has been designed to improve the flow of your exhaust and reduce restriction.

The photo on the right shows the new ECS Tuning high flow catalytic converter and downpipe next to the stock assembly. The new assembly eliminates the stock resonator, but it still utilizes the stock mounting points.

Be sure to read these instructions completely before you begin the project, and don't be afraid to refer back if you get stuck. This job requires only a few basic tools and we provide all the hardware so installation is a breeze! Thank you for choosing ECS Tuning for all your performance and repair needs, we appreciate your business!

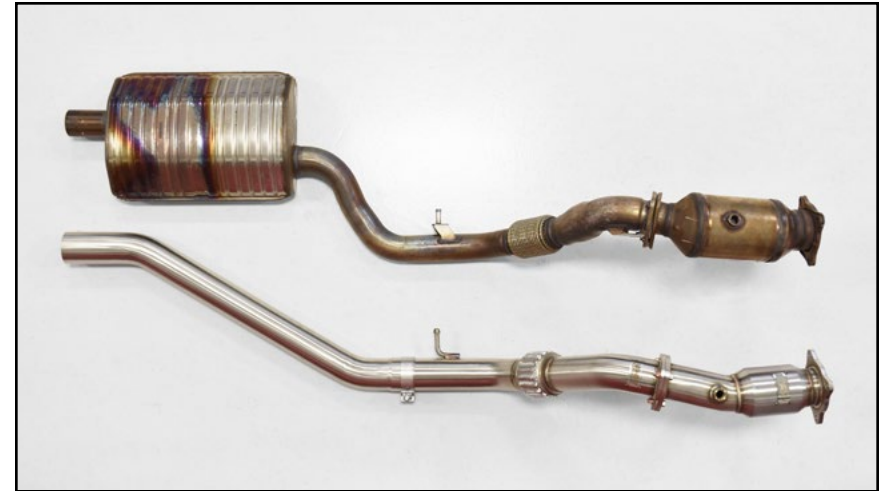


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AVAILABLE KITS



B9 2.0T High Flow Catalytic Converter
[ES#3624402](#)



B9 2.0T T304 Stainless Steel 3.0" Downpipe
[ES#3690264](#)



**B9 2.0T High Flow Catalytic Converter
& 3.0" Downpipe Kit**
[ES#3639508](#)

REQUIRED TOOLS

Note: The tools required for each step will be listed by the step number throughout these instructions.

Standard Automotive Tools

- Protecta-Sockets (for lug nuts)..... [ES#2221243](#)
- **3/8" Drive Ratchet**..... [ES#2765902](#)
- **3/8" Drive Torque Wrench**..... [ES#2221245](#)
- **3/8" Drive Deep and Shallow Sockets**..... [ES#2763772](#)
- **3/8" Drive Extensions**..... [ES#2804822](#)
- **Hydraulic Floor Jack**..... [ES#240941](#)
- **Torx Drivers and Sockets**..... [ES#11417/8](#)
- 1/2" Drive Deep and Shallow Sockets..... [ES#2839106](#)
- **1/2" Drive Ratchet**
- 1/2" Drive Extensions
- 1/2" Drive Torque Wrench..... [ES#2221244](#)
- 1/2" Drive Breaker Bar..... [ES#2776653](#)
- Bench Mounted Vise
- Crows Foot Wrenches
- Hook and Pick Tool Set..... [ES#2778980](#)

Required For This Install

- 1/4" Drive Ratchet..... [ES#2823235](#)
- 1/4" Drive Deep and Shallow Sockets..... [ES#2823235](#)
- 1/4" Drive Extensions..... [ES#2823235](#)
- Plier and Cutter Set..... [ES#2804496](#)
- **Flat and Phillips Screwdrivers**..... [ES#2225921](#)
- **Jack Stands**..... [ES#2763355](#)
- **Ball Pein Hammers**
- Pry Bar Set..... [ES#1899378](#)
- Electric/Cordless Drill
- Wire Strippers/Crimpers
- Drill Bits
- Punch and Chisel Set
- Hex Bit (Allen) Wrenches and Sockets..... [ES#11420](#)
- Thread Repair Tools..... [ES#1306824](#)
- **Open/Boxed End Wrench Set**..... [ES#2765907](#)

Available On Our Website

Specialty Tools

- **Triple Square Socket Set**..... [ES#1910125](#)
- **Oxygen Sensor Socket or Wrench**

INSTALLATION NOTES

- **RH** refers to the *passenger side* of the vehicle.
- **LH** refers to the *driver side* of the vehicle.
- Always use the proper torque specifications.
- If applicable to this installation, torque specifications will be listed throughout the document and at the end as well.
- Please read all of these instructions and familiarize yourself with the complete process **BEFORE** you begin.

GENERAL PREPARATION AND SAFETY INFORMATION

ECS Tuning cares about your health and safety, please read the following safety information. This information pertains to automotive service in general, and while it may not pertain to every job you do, please remember and share these important safety tips.

- Park your car in a safe, well lit, level area.
- Shut the engine off and remove the key from the ignition switch.
- Make sure any remote start devices are properly disabled.
- **ALWAYS** wear safety glasses.
- Make sure the parking brake is applied until the vehicle is safely lifted and supported.
- Whether lifting a vehicle using an automotive lift or a hydraulic jack, be sure and utilize the factory specified lift points.
- Lifting a vehicle in an incorrect location can cause damage to the suspension/running gear.
- **ALWAYS** support the vehicle with jack stands.
- **ALWAYS** read and follow all safety information and warnings for the equipment you are using.



NEVER get underneath a vehicle that is supported only by a jack, and **ALWAYS** make sure that the vehicle is securely supported on jack stands.

REMOVING THE STOCK DOWNPIPE

Step 1: T25 Torx, Flat Blade Screwdriver

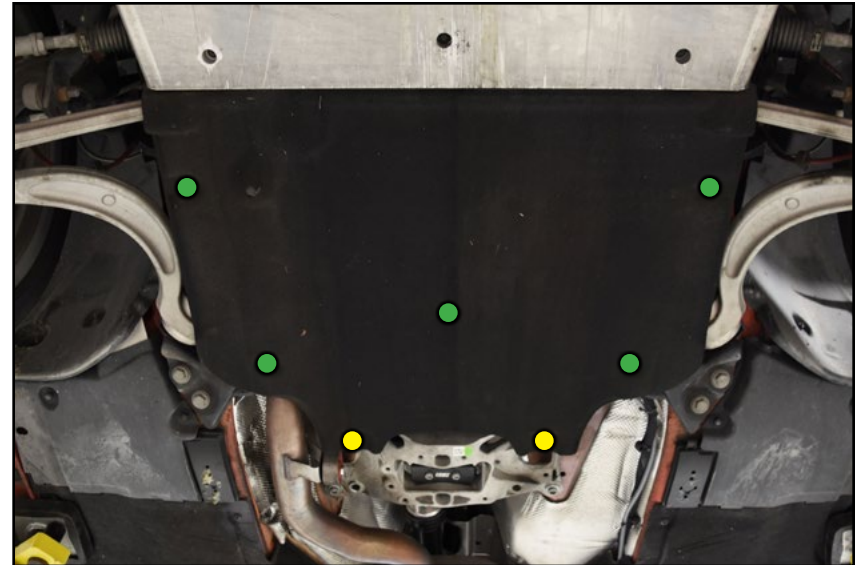
Safely lift and support the vehicle. Remove the transmission insulation panel by removing the Torx fasteners (highlighted in **GREEN**) and the plastic push rivets (highlighted in **YELLOW**) which secure it to the vehicle.



Please follow the steps in this section regardless of whether you are installing our **ECS high flow catalytic converter, 3.0" downpipe, or both.**

Step 2:

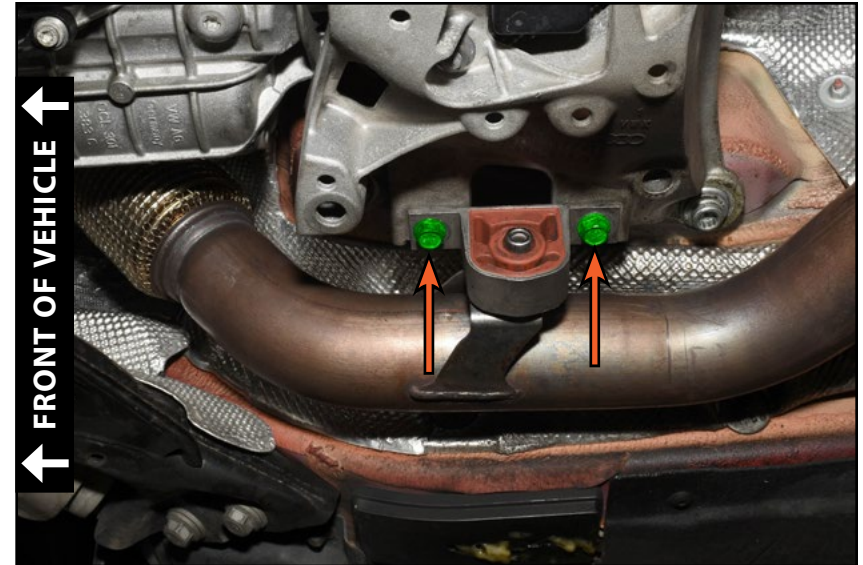
Now is the perfect time to spray all of the fasteners with penetrating oil. This includes the sleeve clamp behind the resonator (shown in the photo), as well as the nuts which secure the downpipe to the cat (not shown).



REMOVING THE STOCK DOWNPIPE

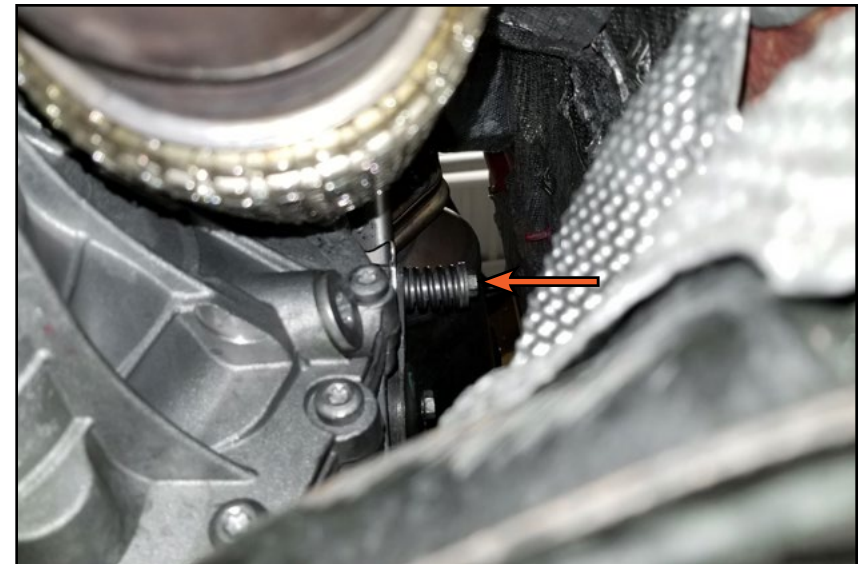
Step 3: M10 Triple Square

In order to gain enough clearance, remove the two bolts (highlighted in **GREEN**) which secure the downpipe hanger to the transmission mount.



Step 4: 13mm Socket & Ratchet

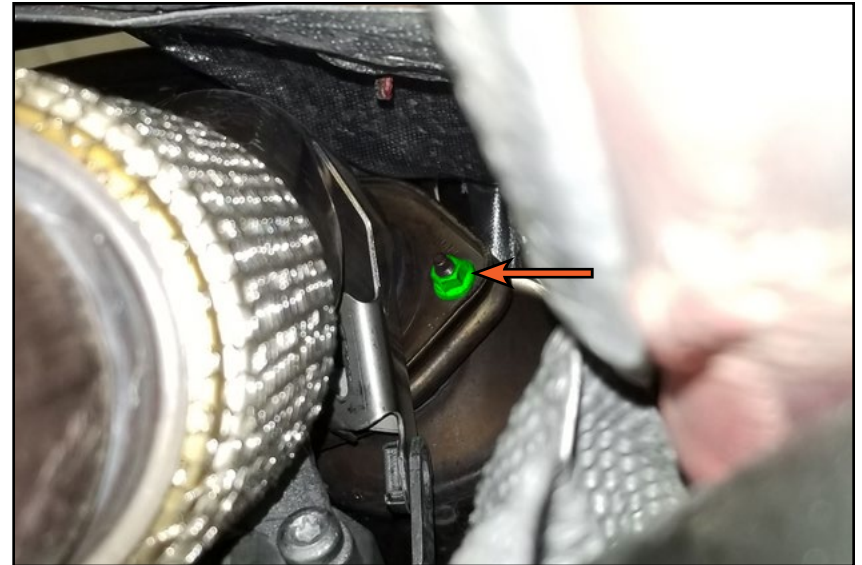
Looking up the downpipe, remove the bolt (arrow) which secures the spring mount to the vehicle.



REMOVING THE STOCK DOWNPIPE

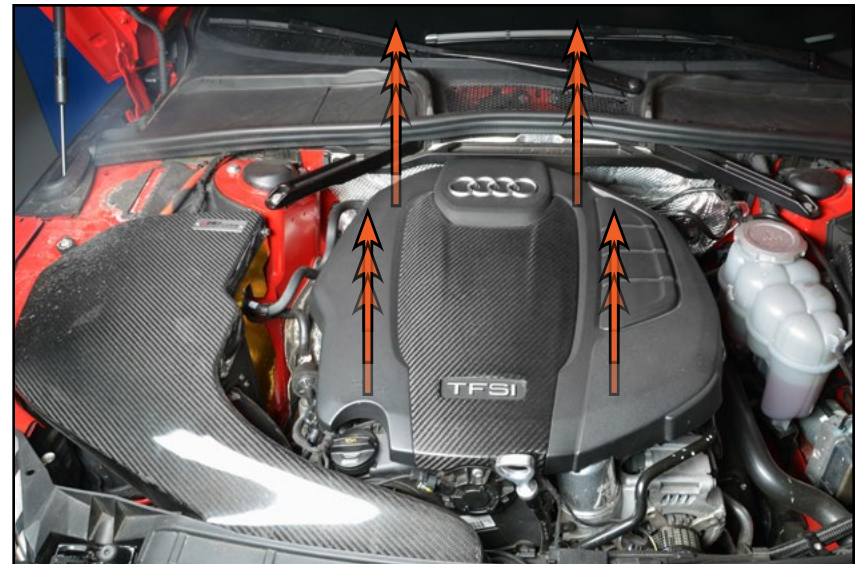
Step 5: 13mm Socket, Ratchet, Extensions, & Swivel Joint

Looking from below, locate and remove the first of the three nuts which secure the downpipe to the stock catalytic converter (highlighted in **GREEN**).



Step 6:

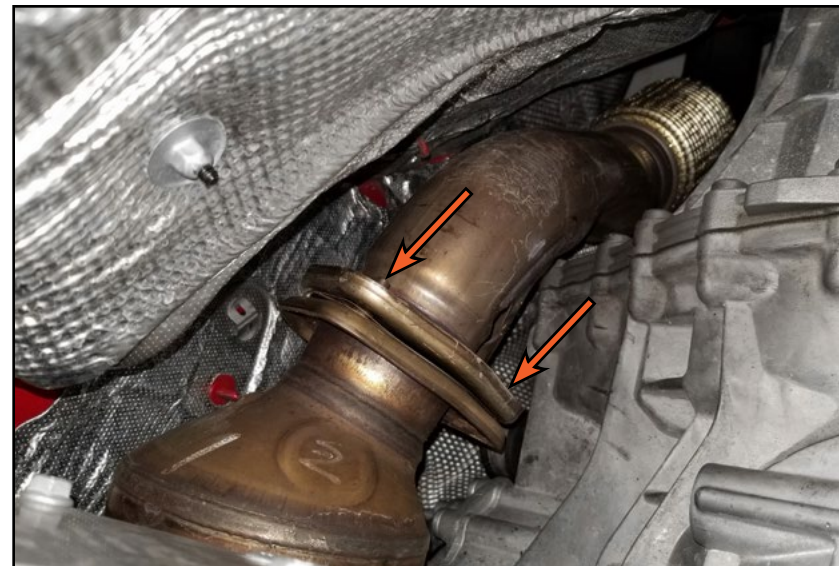
Lift up on the engine cover one corner at a time to pop it free from the mounting studs and set it aside.



REMOVING THE STOCK DOWNPIPE

Step 7: 13mm Socket & Ratchet

Locate and remove the last two nuts which secure the stock cat to the downpipe.



Step 8:

Slide the downpipe off of the studs on the catalytic converter.



If you purchased a kit WITH a new 3.0" downpipe:

- Please proceed to the next page for instructions on how to remove the stock downpipe.

If you purchased a kit WITHOUT a new 3.0" downpipe:

- Please skip ahead to [Page 11](#). You will not need to remove the stock downpipe in order to install your new high flow catalytic converter.





These steps only apply to kits w/ECS 3.0" downpipe



REMOVING THE STOCK DOWNPIPE

Step 9: 13mm Socket & Ratchet

Loosen the bolts on the sleeve clamp behind the resonator, then slide the clamp rearward to release the downpipe from the rest of the exhaust system.



Step 10:

Remove the downpipe from the vehicle.



If you purchased a kit WITH a new high flow catalytic converter:

- Please proceed to the next page for instructions on how to remove the stock catalytic converter.

If you purchased a kit WITHOUT a new high flow catalytic converter:

- Please skip ahead to [Page 16](#).



REMOVING THE STOCK CATALYTIC CONVERTER

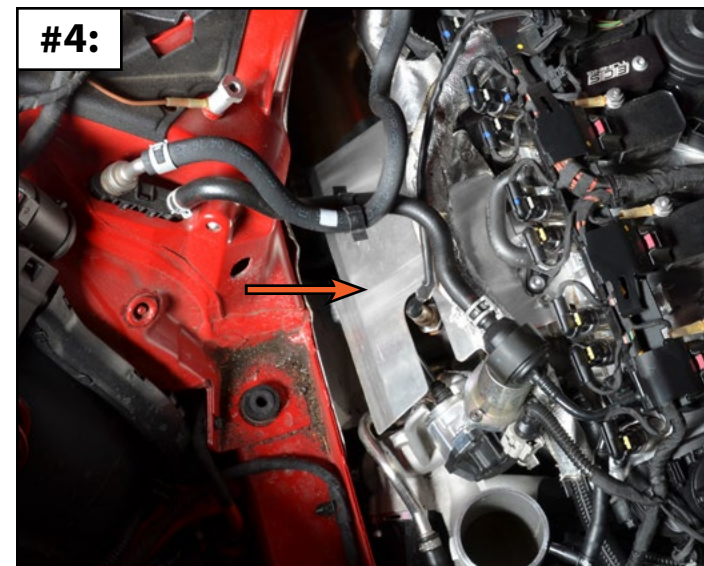
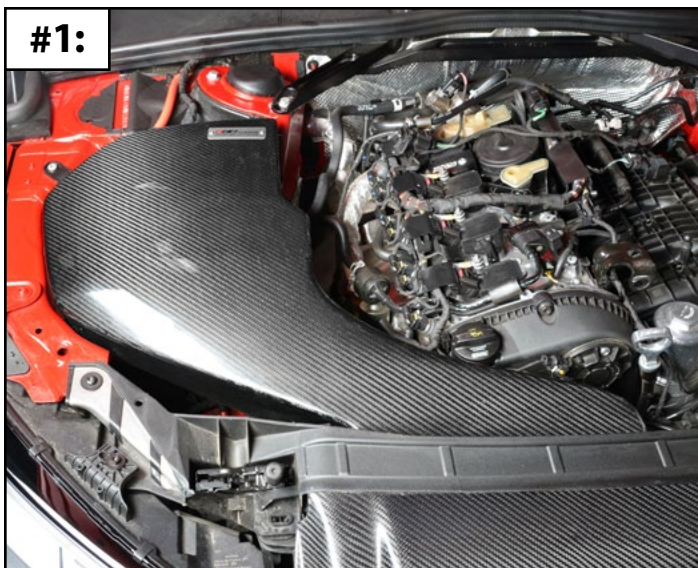
Step 1:

Remove the intake in order to gain access to the turbocharger (**photo #1**).

Disconnect the oxygen sensor connector from the engine wiring harness (highlighted in **GREEN** in **photo #2**).

Using an oxygen sensor socket and an extension, loosen and remove the oxygen sensor from the stock cat (**photo #3**).

If you have our turbo heat shield installed, remove it now before moving on to the next step (shown in **photo #4**).

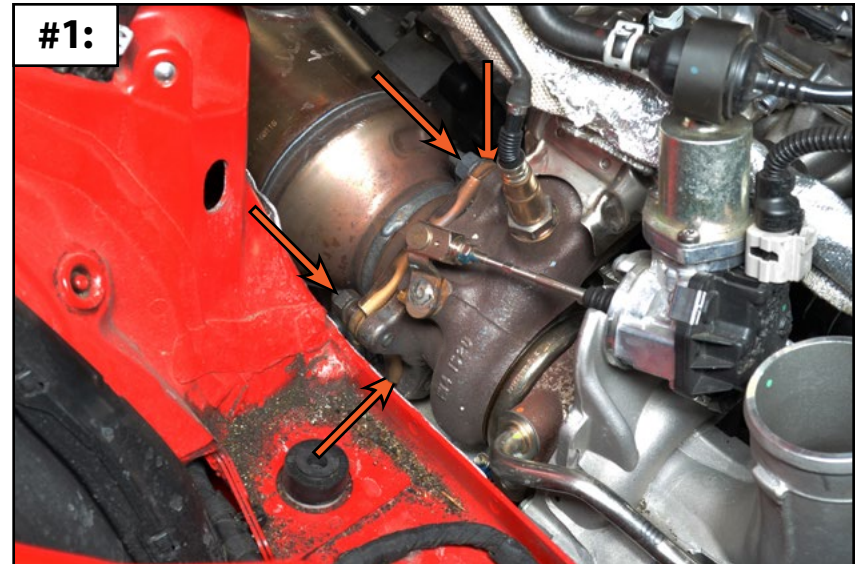


REMOVING THE STOCK CATALYTIC CONVERTER

Step 2: 15mm Wrench, 15mm Socket, Ratchet & Extensions

Remove the four nuts which secure the stock cat to the turbo mounting flange (**photo #1**).

Depending on how tight the nuts are, you may have difficulty removing the lowest nut from the stock cat. In these circumstances we found that the best method is to remove the front RH wheel and fender liner in order to gain better access and break the nut loose (**photo #2**).



REMOVING THE STOCK CATALYTIC CONVERTER

Step 3:

Pull the stock cat rearward to slide it off the turbo mounting studs.



Step 4:

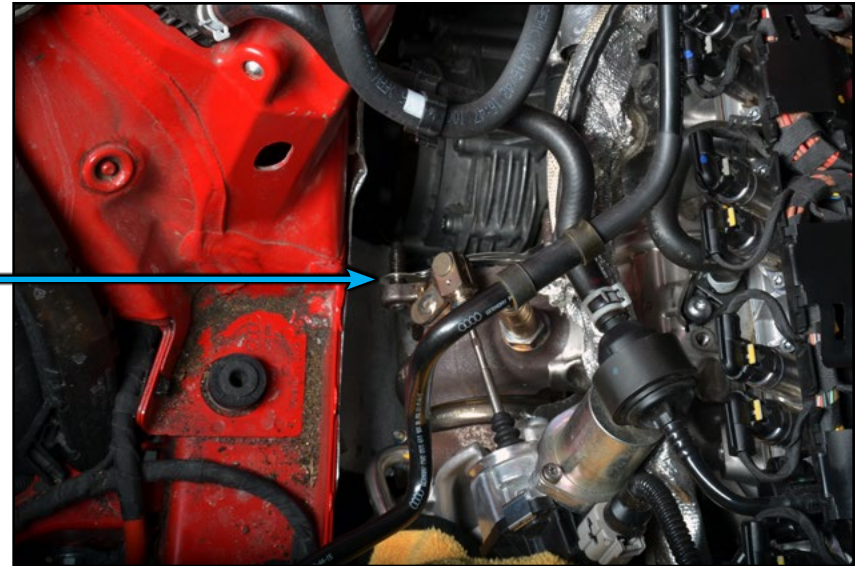
Route the stock cat around the backside of the engine and lift it up and out from the LH side of the engine as shown.



INSTALLING THE NEW HIGH FLOW CATALYTIC CONVERTER

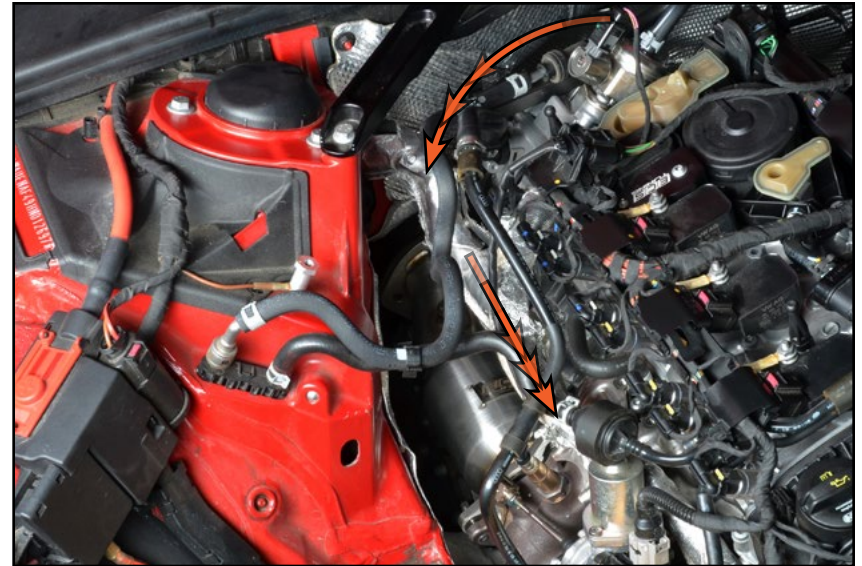
Step 1:

Remove the stock gasket (arrow) from the turbo mounting studs and install the new gasket in its place.



Step 2:

Install the new cat by bringing it around the back of the engine and sliding it onto the turbo mounting studs.



INSTALLING THE NEW HIGH FLOW CATALYTIC CONVERTER

Step 3: 16mm Wrench, 16mm Socket & Ratchet

Install the four nuts which secure the new cat to the turbo mounting flange and torque them to 40 Nm (30 Ft-lbs).



If you have a turbo heat shield, don't forget to reinstall it before installing and torquing these nuts.



Step 4: Oxygen Sensor Socket & Ratchet

Install the oxygen sensor into the new cat, reroute the harness, and reconnect the connector.



If you purchased a kit WITH a new 3.0" downpipe:

- Please proceed to the next page for instructions on how to install the new 3.0" downpipe.

If you purchased a kit WITHOUT a new 3.0" downpipe:

- Please reinstall the stock downpipe in the reverse order of removal, then skip ahead to [Page 19](#).

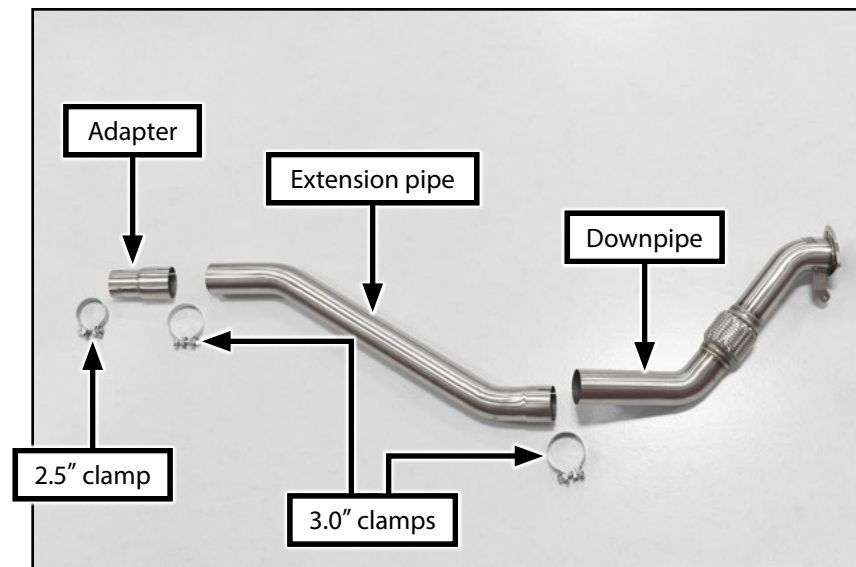


INSTALLING THE NEW DOWNPIPE

Step 1:

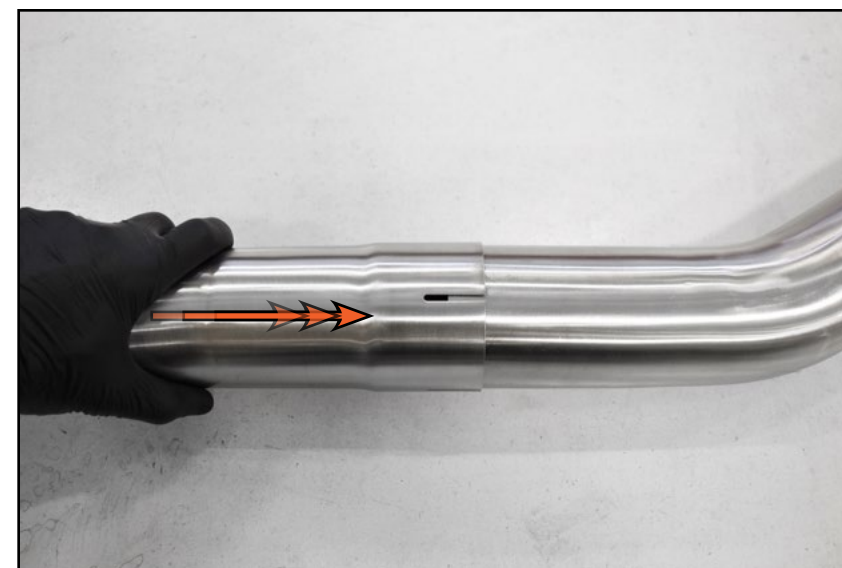
Before we begin it's a good idea to unpack your new 3.0" downpipe kit and carefully lay it out on the floor. Inspect all of the slip joints for any signs of damage during shipping.

Please note that during this installation, you will be installing this downpipe kit from front to back **WITHOUT** fully tightening any of the clamps. Once the kit is fully installed, we will then show you how to position the system properly and you will tighten the clamps **AFTER** that is complete.



Step 2: Ball Pein Hammer

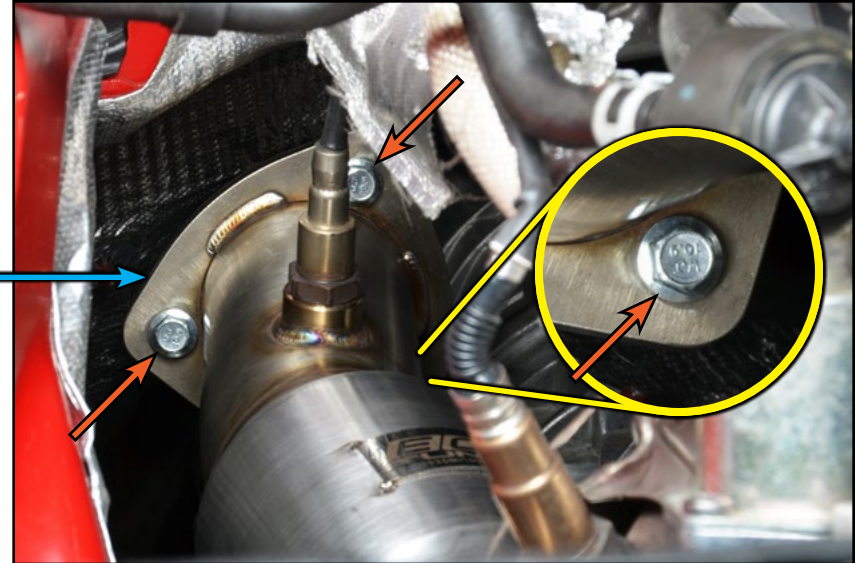
Test fit the pipes together at every slip joint to make sure they slide together easily. If they do not slide together easily, gently tap on the ends of the pipes with a ball pein hammer to straighten them, then recheck fitment. Proceed to the next page once all of the slip joints slide together easily.



INSTALLING THE NEW DOWNPIPE

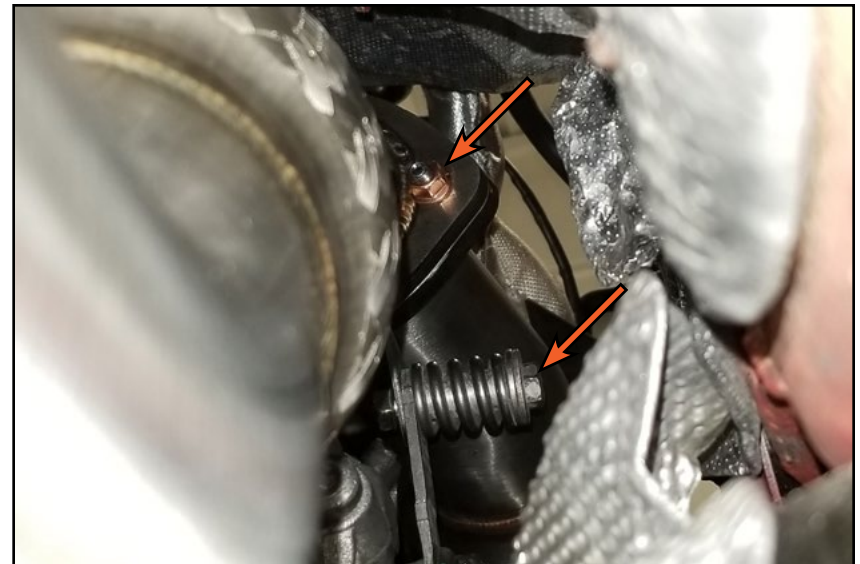
Step 3:

Install the provided gasket so that it is sandwiched between the cat and downpipe flange, then slide the three mounting bolts through the holes as shown.



Step 4: 12mm Wrench, 12mm & 13mm Sockets, Torque Wrench

Install the three nuts onto the ends of the bolts and tighten them to 23 Nm (17 Ft-lbs). Reinstall the spring mount into the ear on the downpipe, then tighten the bolt to 23 Nm (17 Ft-lbs).

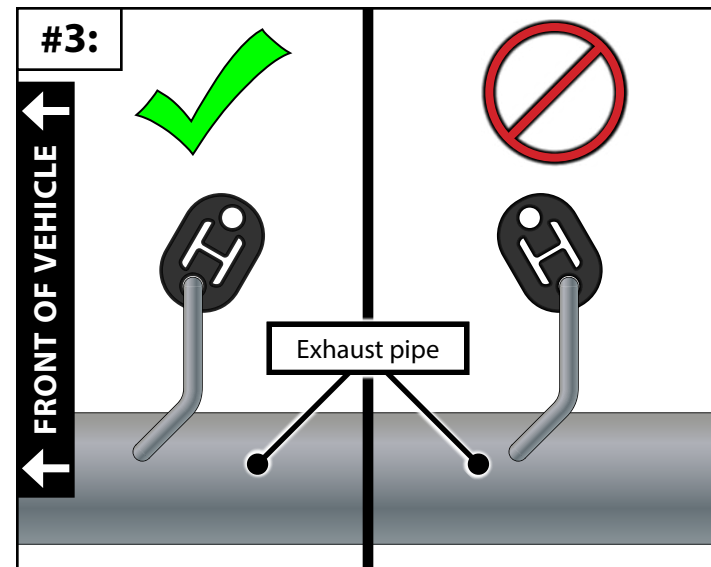
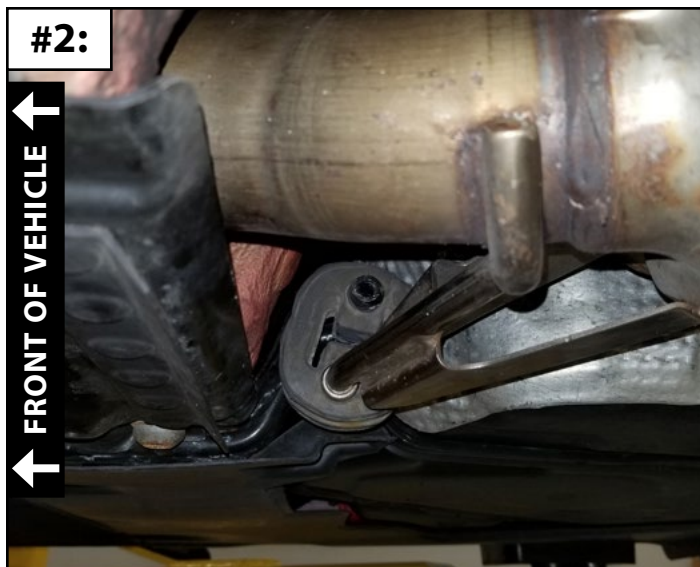
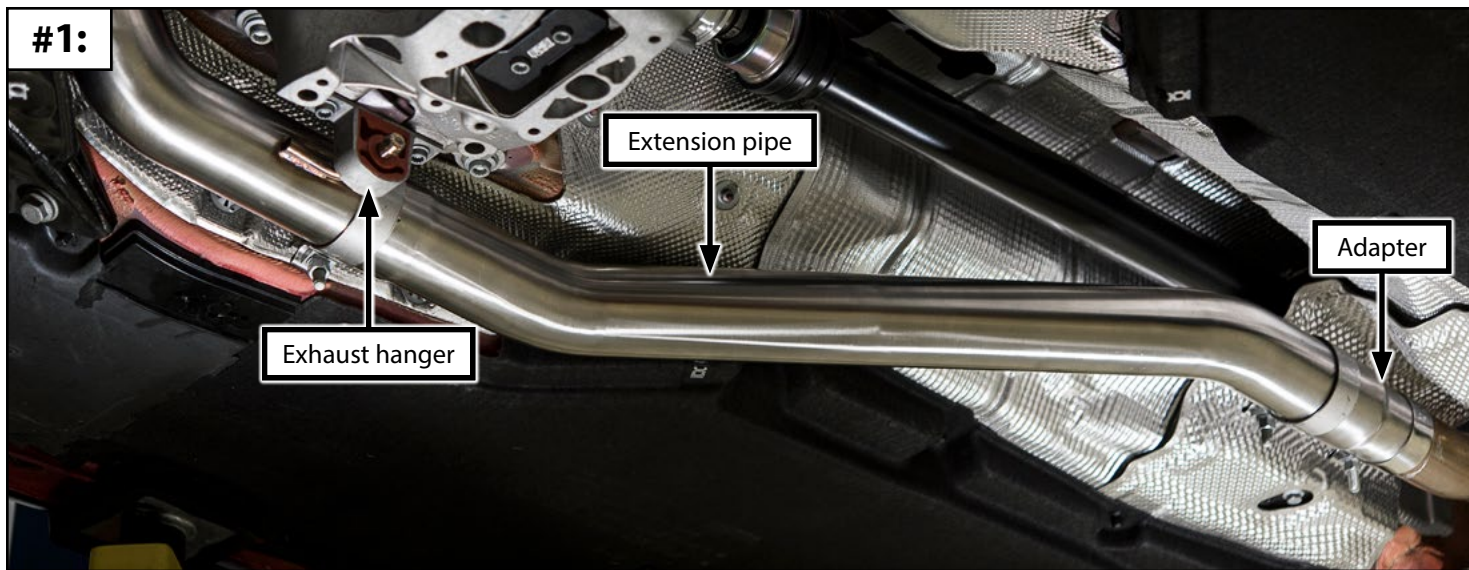


INSTALLING THE NEW DOWNPIPE

Step 5:

Install the extension pipe and adapter into place. Reinstall the downpipe hanger and tighten the bolts (**photo #1**).

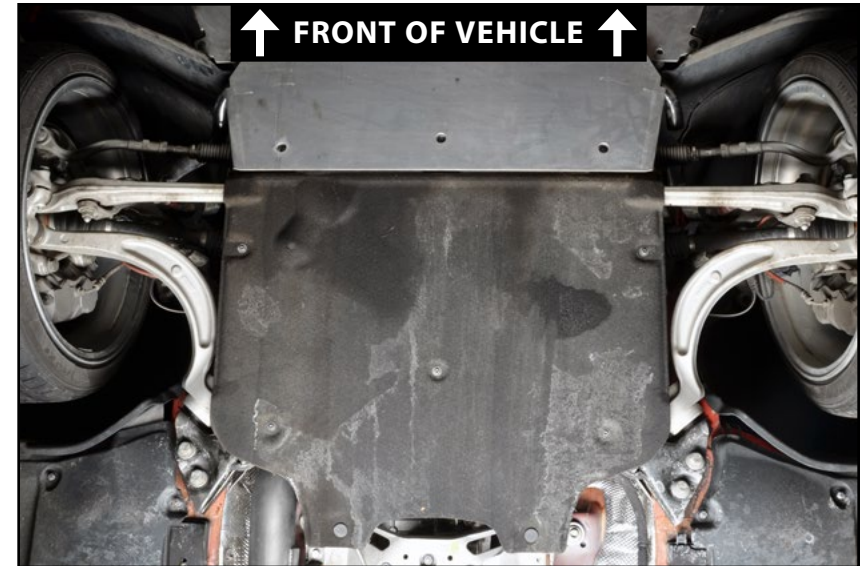
Adjust the exhaust system until the hangers are inclined slightly toward the front of the vehicle. The lower hole of the hanger should be approximately 10-15mm forward of the upper hole, this will allow the hangers to pivot backwards as the system heats up and expands (shown in **photo #2** & **photo #3**).



INSTALLING THE NEW DOWNPIPE

Step 6: T25 Torx

Reinstall the transmission insulation panel.



Step 7:

Reinstall the intake and engine cover.



Your installation is complete!

SCHWABEN - BUILD THE ULTIMATE TOOL COLLECTION

At ECS Tuning, we carry a line of high quality Schwaben Tools and Equipment to help you build your ultimate tool collection. Never before has affordability and quality been so closely related. Our entire Schwaben line is subjected to strict in house testing for strength and durability. See what we have to offer and equip your garage without breaking the bank.

Your ECS Downpipe w/High Flow Catalytic Converter installation is complete!



These instructions are provided as a courtesy by ECS Tuning

Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.

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