



Audi C7 4.0T Axle-Back Exhaust System Installation Instructions - [ES4660699](#)/[ES4660701](#)



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.

TABLE OF CONTENTS

Axle-Back Exhaust Kit Contents	pg.3
Required Tools and Equipment.....	pg.4
Installation and Safety Information	pg.5
Project Overview	pg.6
Removing the Stock Mufflers.....	pg.7
Installing the Axle-Back Exhaust.....	pg.10

AVAILABLE EXHAUST TIP OPTIONS:



4.0" Carbon Fiber Tips



4.0" Chrome Tips

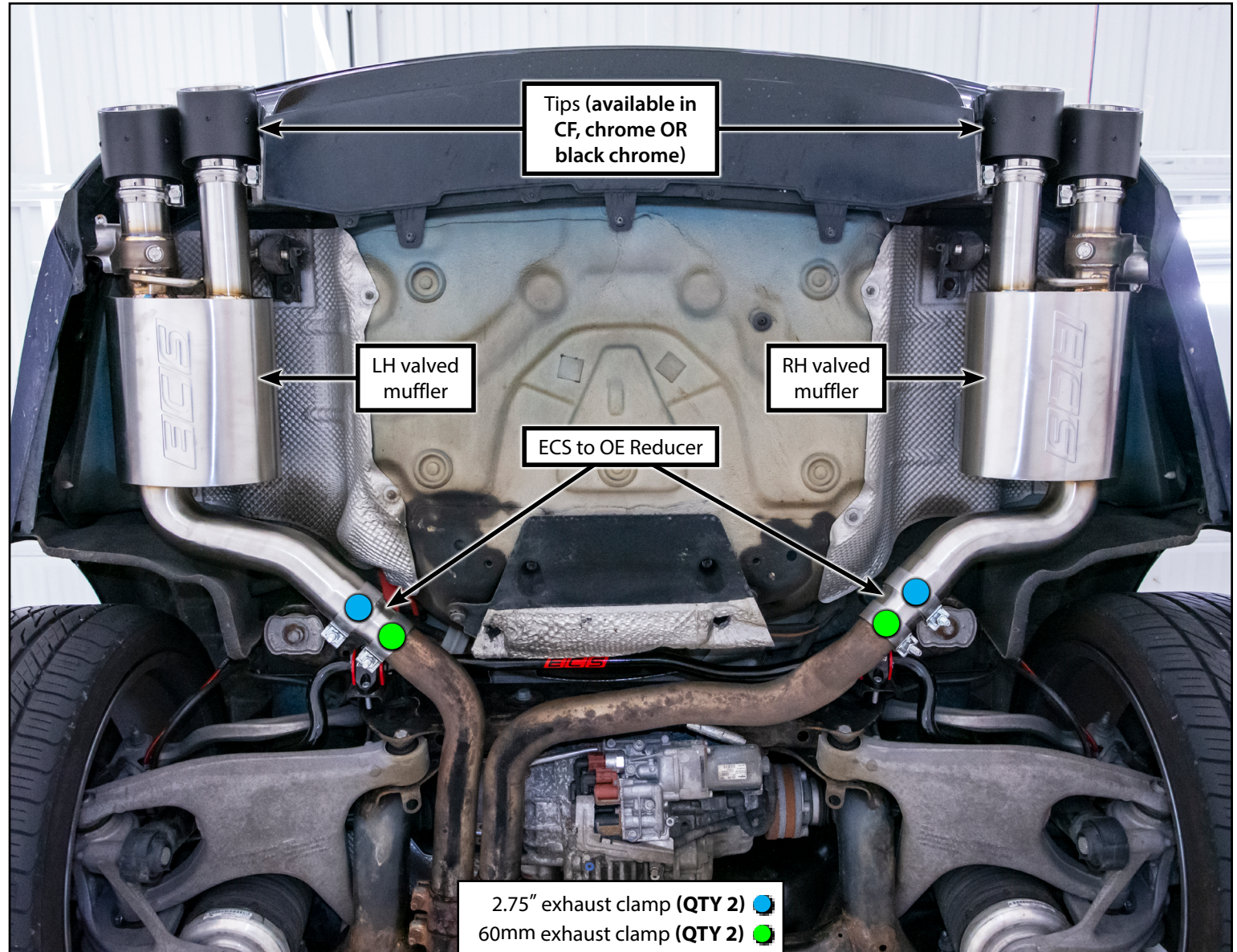


4.0" Black Chrome Tips

AXLE-BACK EXHAUST SYSTEM KIT CONTENTS

Each kit includes a pair of valved mufflers, along with reducers to adapt them to the OE exhaust and all necessary clamps.

Kits are available with carbon fiber, chrome or black chrome tips. Our ECS exhaust tips feature swivel adjustment to fine tune their fit.



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#2834951](#)
- **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

Available On Our Website

- **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](#)

Specialty Tools

- **Exhaust Hanger Removal Pliers** [ES#2221243](#)
- **Exhaust Pipe Cutter Tool** [ES#2221243](#)

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.

PROJECT OVERVIEW

Installation of our axle-back exhaust system is pretty straight-forward.

The first step is to locate and cut along the OE cut line for each rear muffler (**RED** lines), then disconnect the valve controllers (circled in **YELLOW**) and remove the nuts (arrows) which secure the muffler hangers to the underside of the vehicle.

Once the OE mufflers are removed from the vehicle, we must transfer over the exhaust valve controllers and exhaust hangers to the new mufflers, then install the new mufflers in their place.

Now let's get to it!



REMOVING THE STOCK MUFFLERS

Step 1: Pole Jack

Before removal, properly support both mufflers as shown.



Step 2: Marker

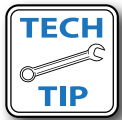
Locate the faint OE cut line (arrow) on the exhaust pipe, just upstream of each muffler. Make a line all the way around each pipe at this point and proceed to the next step.



REMOVING THE STOCK MUFFLERS

Step 3: Exhaust Pipe Cutter -OR- Reciprocating Saw

Cut along the line we made in the previous step, being sure to cut as straight as possible until you cut all the way through the pipe.

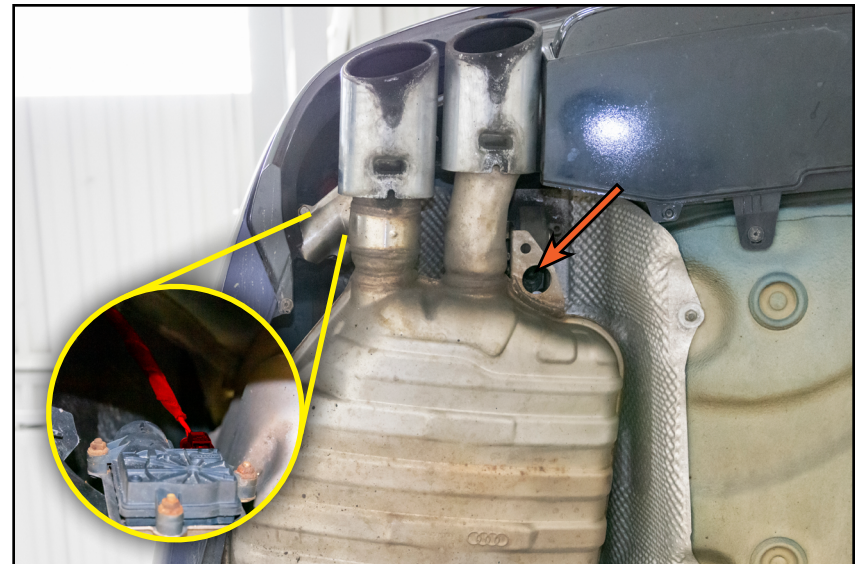


Our exhaust pipe cutter tool (available [HERE](#)) makes quick work of these cuts.



Step 4: 13mm Socket & Ratchet

Disconnect the connector (highlighted in **RED** in inset photo) for the exhaust valve controller, then remove the nut (arrow) which secures the hanger to the vehicle and carefully remove the muffler.



REMOVING THE STOCK MUFFLERS

Step 5: Metal File or Die Grinder

Use a metal file or die grinder to remove any burrs from the exhaust pipes that we cut, this will ensure a proper fit and seal once the axle-back is installed

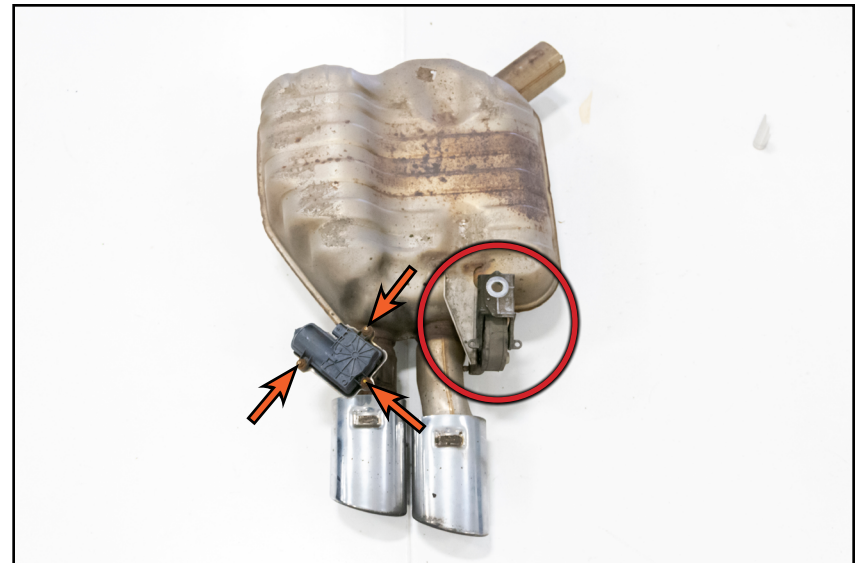


Step 6: Exhaust Hanger Removal Pliers, 8mm Socket & Ratchet

Remove the three nuts (arrows) and carefully pull the valve controller free from each muffler and set it aside. Remove the rubber hanger (circled in **RED**) from each stock muffler and set it aside.



Our exhaust hanger removal pliers come in handy here, click [HERE](#) to view them on our website.



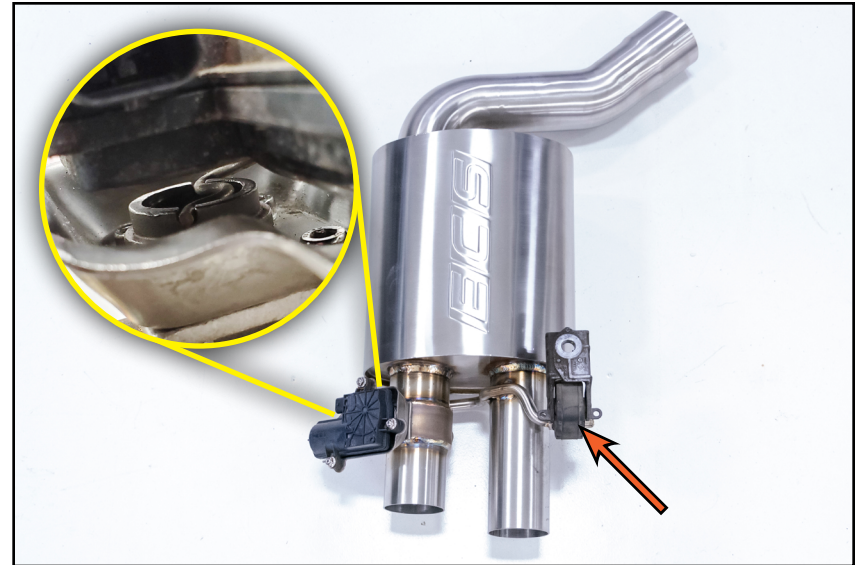
INSTALLING THE AXLE-BACK EXHAUST

Step 1: 8mm Socket & Ratchet



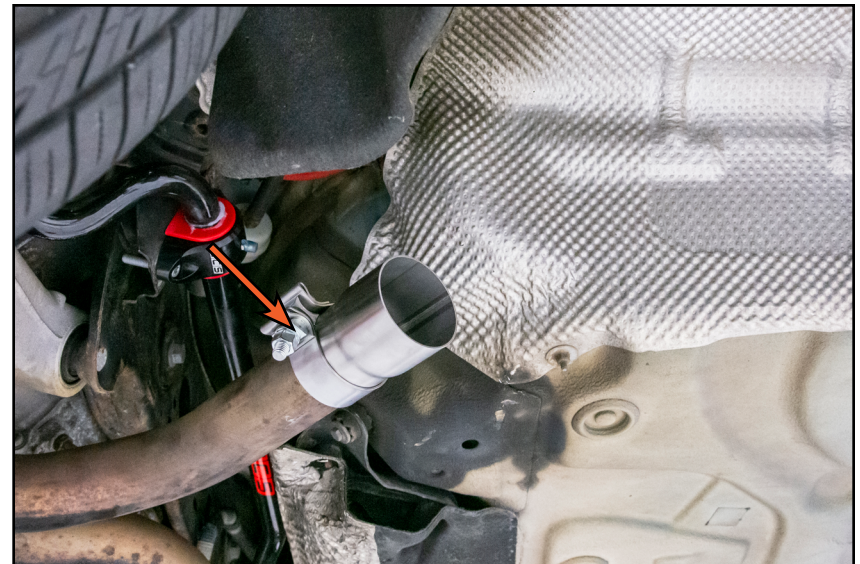
The spring underneath the valve controller must align with the notches in the top of the new muffler valve (as shown in the inset photo on the right). Failure to do so will result in non-operational exhaust valves.

Transfer the valve controller from the stock mufflers over to the new ones using the provided hardware. Tighten the nuts until they make contact + 1/8 turn.



Step 2:

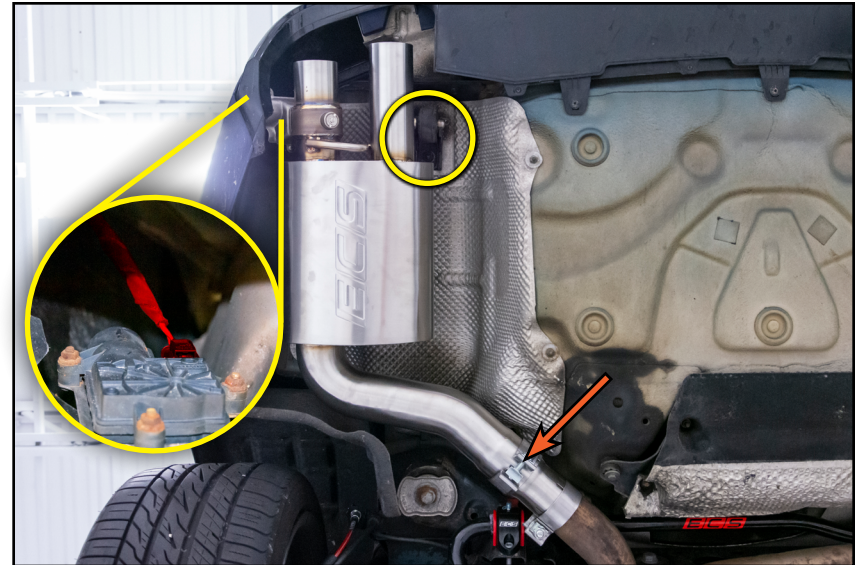
Slide a 60mm clamp (arrow) onto each reducer and slide the reducers onto the cut ends of the stock exhaust pipes as shown. Leave the clamps loose for now.



INSTALLING THE AXLE-BACK EXHAUST

Step 3: 13mm Socket & Ratchet

Slide a 2.75" clamp onto the end of each muffler (arrow), then lift it up into the vehicle and slide it onto the end of the reducer. Reconnect the valve controller connector (highlighted in **RED** in inset photo), then reinstall the nut (circled in **YELLOW**) to secure the hanger to the underside of the vehicle.



Step 4: 15mm Socket & Ratchet

Adjust each muffler until it is sitting level as shown, then tighten the clamps to secure it in this position. Proceed to the next page before fully tightening the clamps.



INSTALLING THE AXLE-BACK EXHAUST

Step 5: 15mm Socket & Ratchet

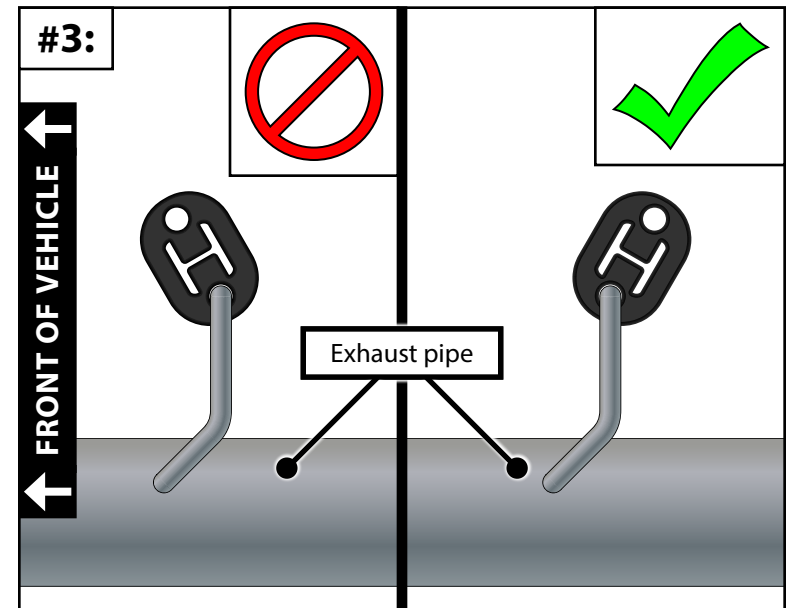
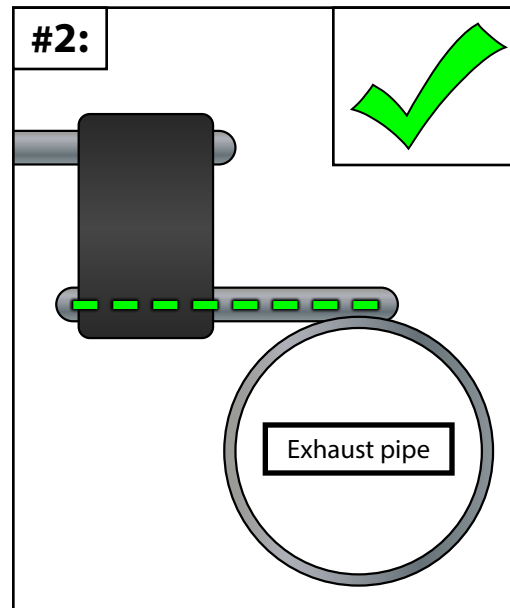
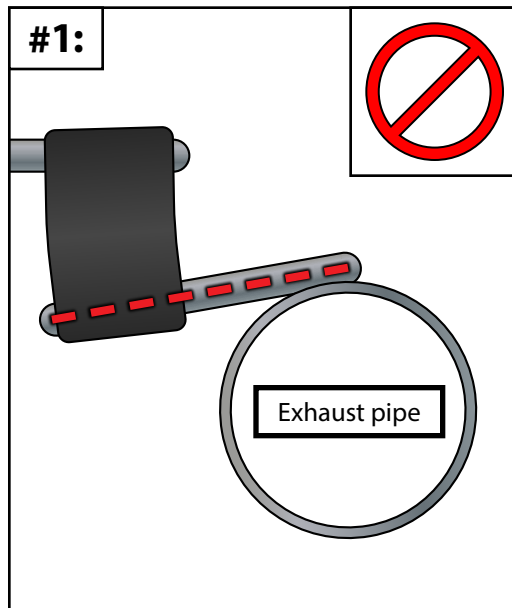
Check the hangers on the mufflers and exhaust pipes to ensure that they are sitting level side-to-side (**Photos #1 & #2 below**).

Finally, we want to ensure that the exhaust hangers are rotated at least slightly toward the front of the vehicle (**Photo #3 below**). The exhaust hangers should be inclined toward the front of the vehicle so that lower hole is approximately 10-15mm forward of the upper hole, this will allow the hangers to pivot backwards as the system heats up and expands.

Once you are satisfied with the adjustment, fully tighten all of the clamps.



Due to differences in manufacturing, as well as variations from one car to another, you might not be able to get all of your hangers to pitch forward. This is acceptable as long as they are at least close to vertical.



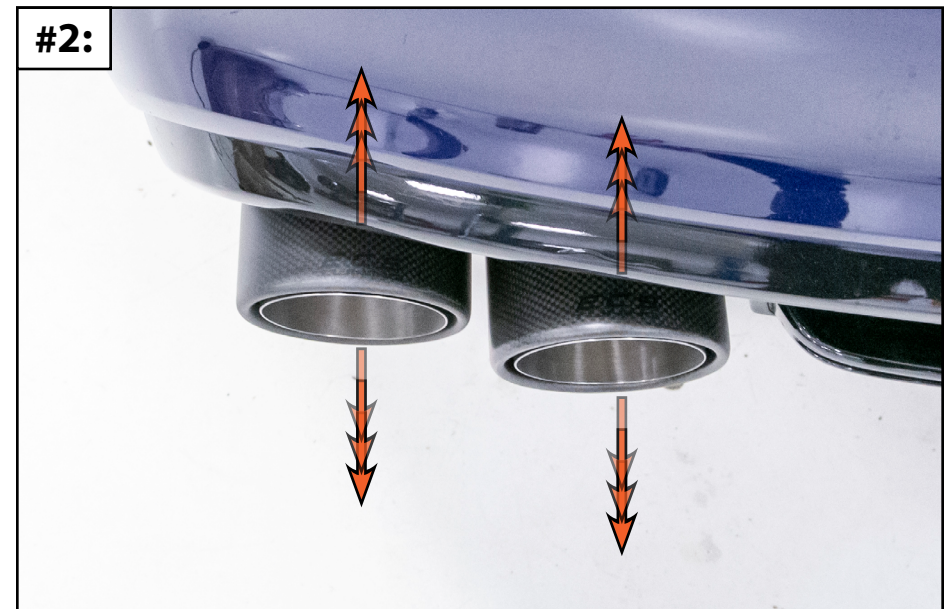
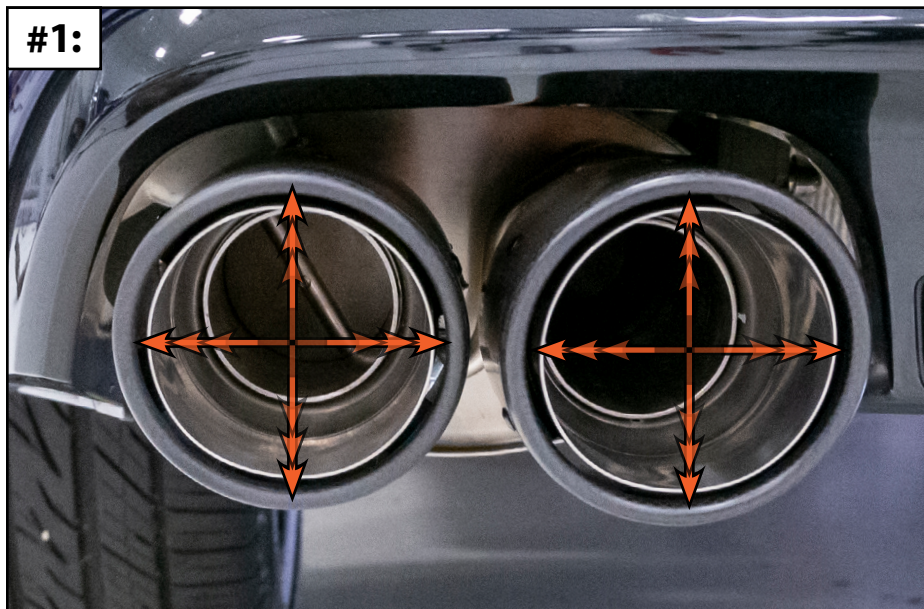
INSTALLING THE AXLE-BACK EXHAUST

Step 6: 13mm Socket & Torque Wrench

Install the exhaust tips onto the ends of the mufflers. Center and level each of the exhaust tips inside the valance (**Photo #1**), then set their depth (**Photo #2**) before tightening the clamps to 19 Nm (14 Ft-lbs).

Start the engine and cycle through drive modes "comfort" and "dynamic" to test valve operation, You should be able to hear a difference in both exhaust tone and volume when the valves are opened or closed.

Congratulations, your installation is complete!



Your Axle-Back Exhaust 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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