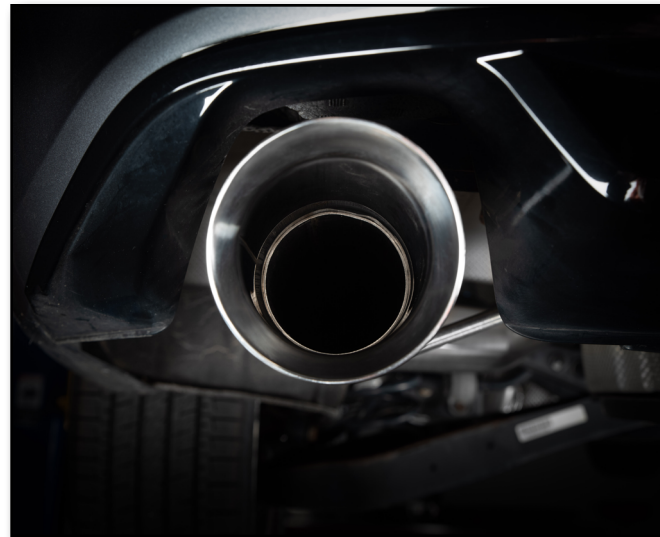




VW B7 Passat TSI ECS Exhaust System Installation Instructions - [Click HERE to Shop](#)



Skill Level
1 - Easy
Basic Skills
Required

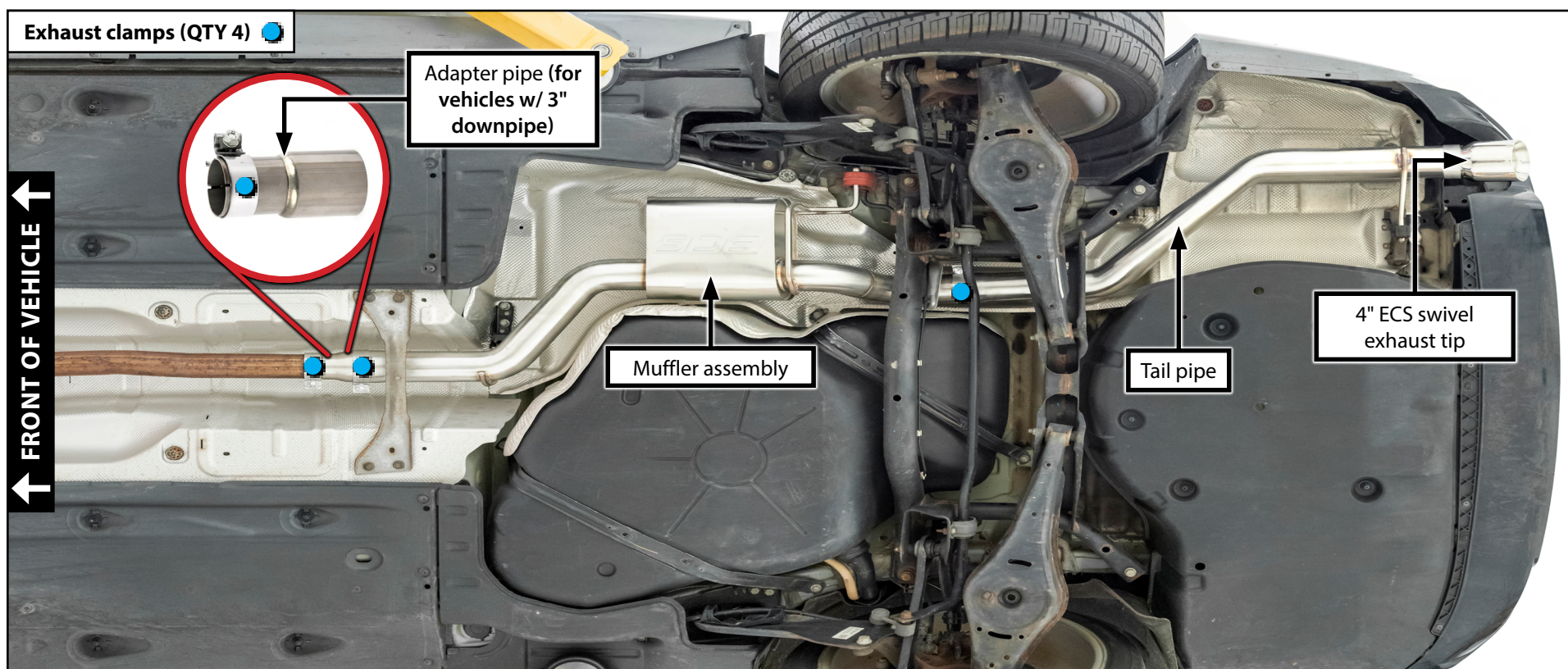


Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times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

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KIT CONTENTS



Our exhaust system is comes with a single 4" exhaust tip in the finish of your choice. Each system comes with two adapters which will connect our exhaust system to either the stock downpipe or an aftermarket 3" downpipe (**RED** inset photo above).

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

- 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

- **Exhaust Hanger Removal Pliers** [ES#2784927](#)

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.

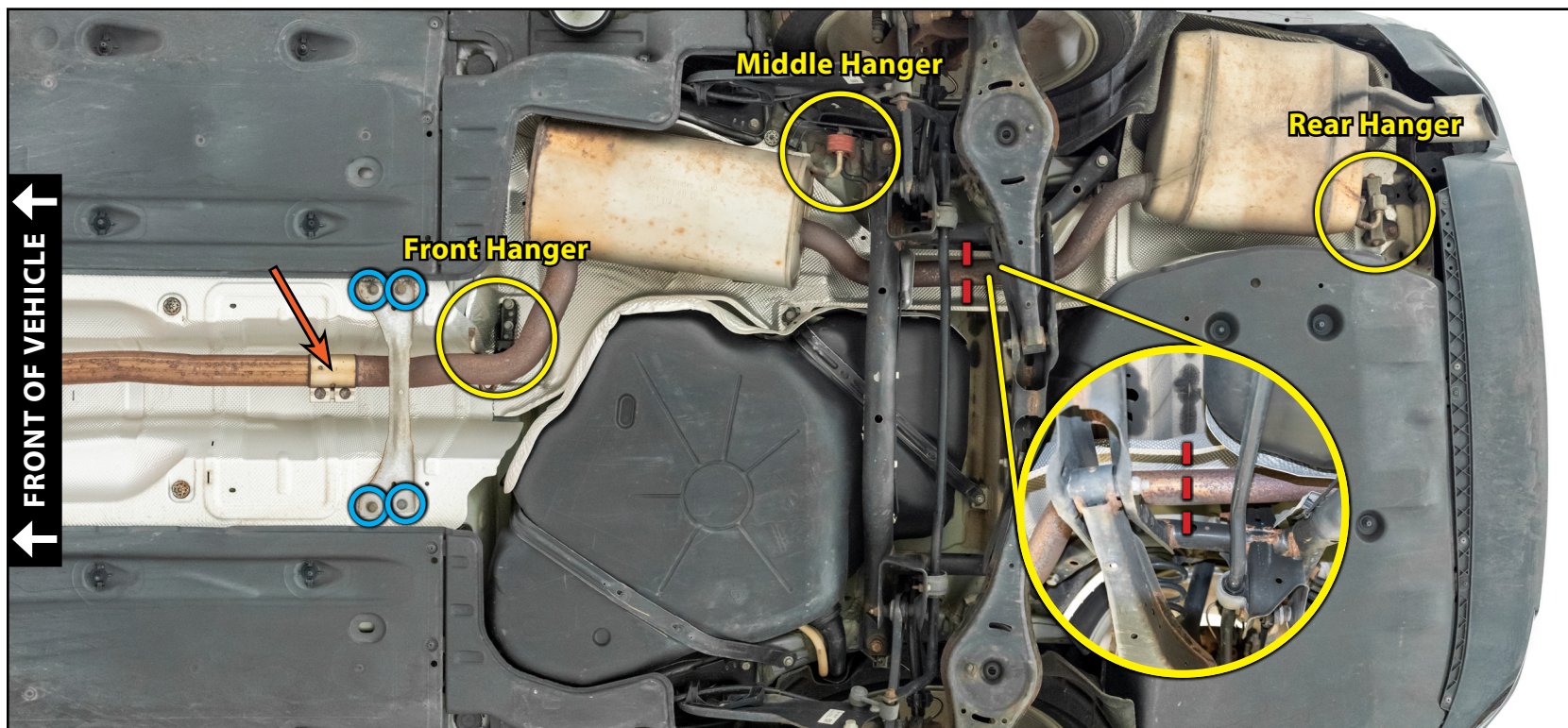


NEVER get underneath a vehicle that is supported only by a jack, and **ALWAYS** make sure that the vehicle is securely supported on jack stands.

REMOVING THE STOCK EXHAUST SYSTEM

Step 1: 13mm Socket & Ratchet, Exhaust Hanger Removal Pliers, Exhaust Pipe Cutter

First, remove the four bolts (circled in **BLUE**) and remove the chassis cross brace from the underside of the vehicle. We will then be cutting the exhaust system (**RED** dotted line) to make removal possible. Once cut, support the muffler from below while you unbolt the rear hanger (circled in **YELLOW**) and guide the rear portion of the exhaust free from the vehicle. Support the resonator from below, loosen the two nuts on the sleeve clamp (arrow), then slide it forward on to the downpipe. Unbolt the front exhaust hanger and disconnect the middle hanger (circled in **YELLOW**). Guide the front portion of the exhaust free from the vehicle.

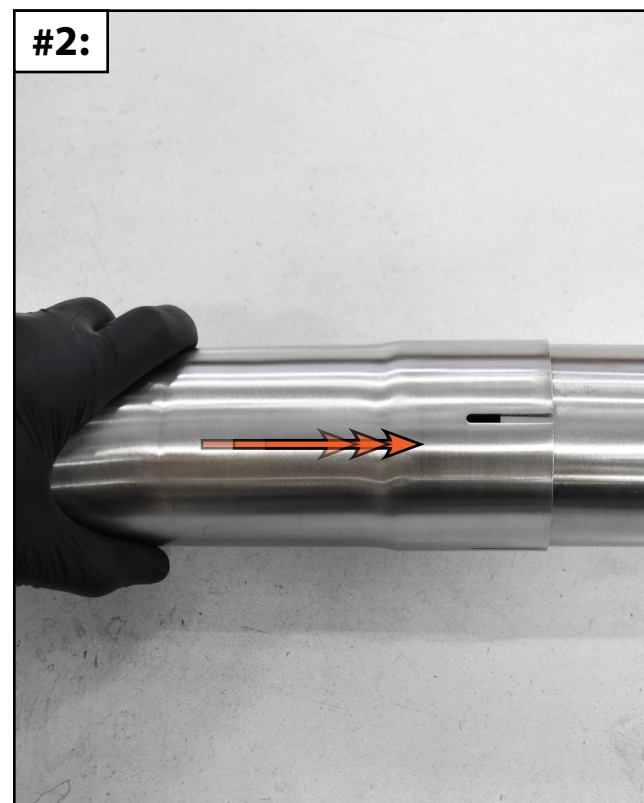
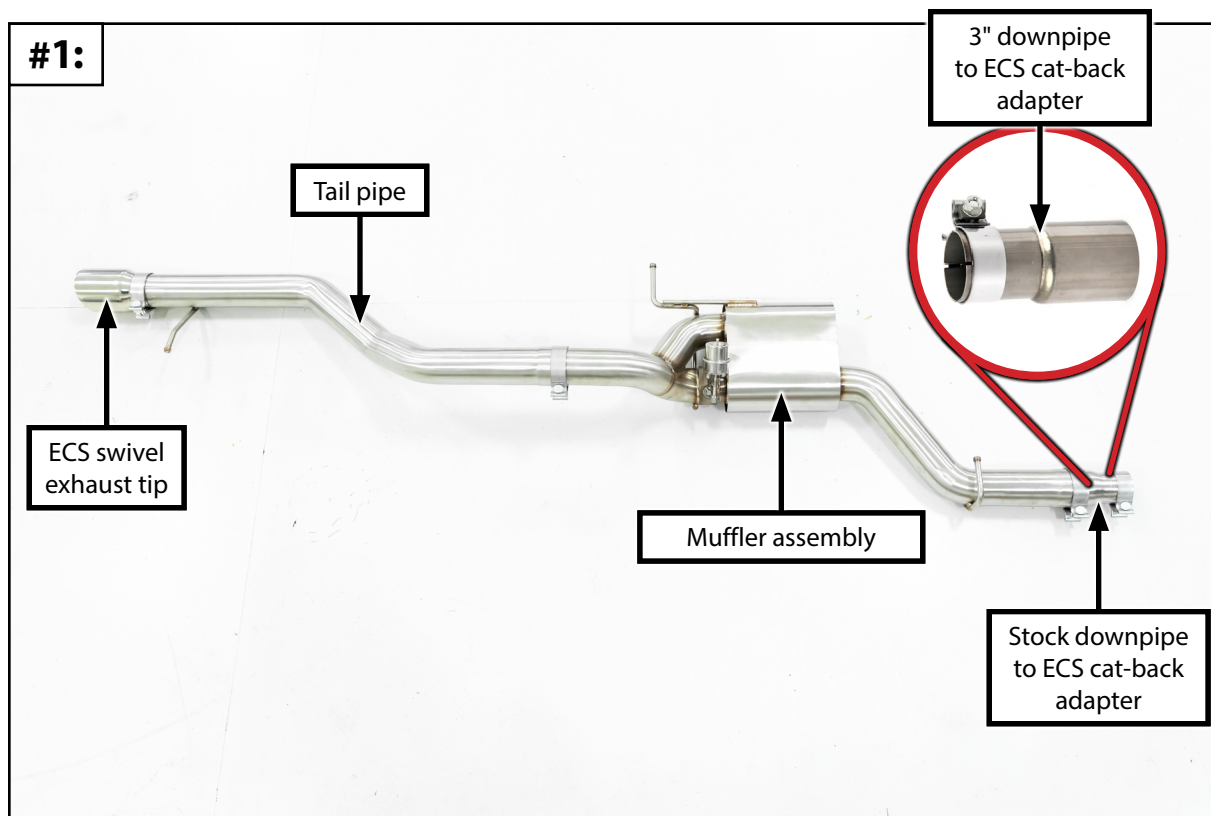


INSTALLING THE NEW EXHAUST SYSTEM

Step 1: Ball Pein Hammer

Before we begin it's a good idea to unpack your new exhaust system and carefully lay it out on the floor (**Photo #1**). Test fit the pipes together at every slip joint to make sure they slide together easily (**Photo #2**). 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.

Please note that during this installation, you will be installing the exhaust from front-to-back **WITHOUT** tightening any of the clamps. Once the system is installed, we will then show you how to position the system properly and you will tighten the clamps **AFTER** that is complete. Proceed to the next page once all of the slip joints slide together easily.



INSTALLING THE NEW EXHAUST SYSTEM

Step 2: Exhaust Hanger Removal Pliers

Transfer the rearmost exhaust hanger from the stock muffler to the new tail pipe. Be sure to orient it exactly as it was before (**Photo #1 & Photo #2**).



INSTALLING THE NEW EXHAUST SYSTEM

Step 3: Exhaust Hanger Removal Pliers

Transfer the frontmost exhaust hanger from the stock muffler to the new muffler assembly. Be sure to orient it exactly as it was before (**Photo #1 & Photo #2**).

#1:



#2:



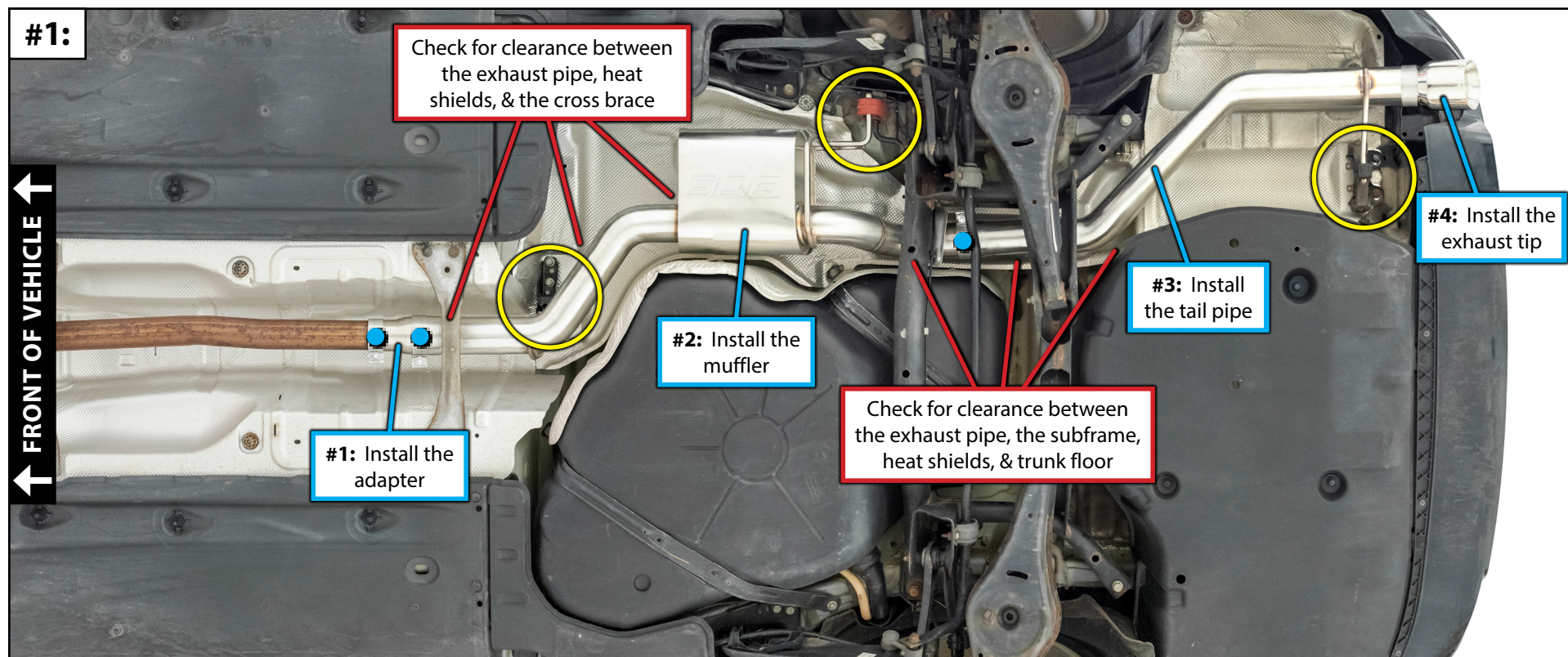
INSTALLING THE NEW EXHAUST SYSTEM

Step 4: 13mm & 15mm Sockets, Ratchet

Install the exhaust system in the order shown in **Photo #1** below. Reinstall the exhaust hangers (circled in **YELLOW**), then it's time to adjust the exhaust system for proper fitment. The key to proper adjustment is patience, take your time and snug the clamps (**BLUE** circles) but **DO NOT** fully tighten any of the clamps until **AFTER** you've performed all of the steps up through Page 11. Closely inspect the exhaust system from front to back, we need to check for clearance between the pipes and nearby chassis components.



CAUTION: You can tighten the exhaust clamps until they are "snug", but **DO NOT USE AN IMPACT WRENCH** and do not fully tighten them yet!



INSTALLING THE NEW EXHAUST SYSTEM

Step 5: 13mm & 15mm Sockets, Ratchet

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

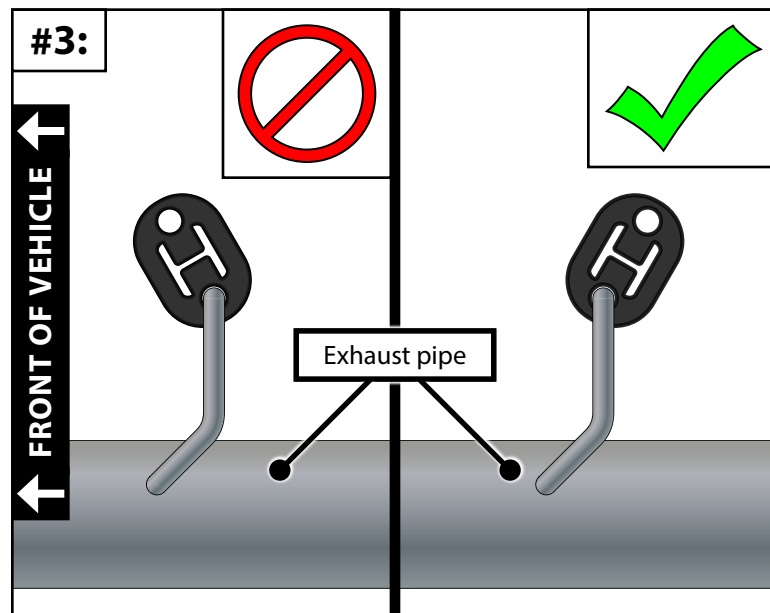
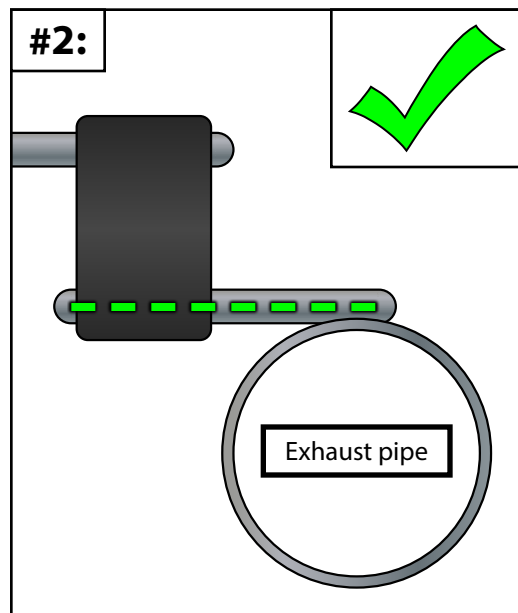
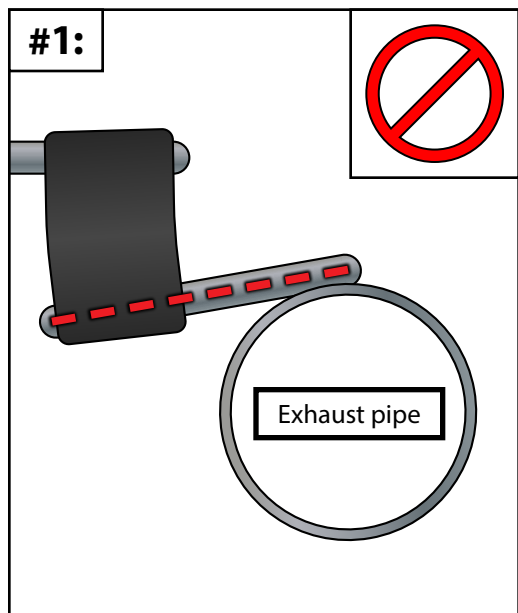
Finally, we want to ensure that the exhaust hangers are rotated at least slightly toward the front of the vehicle (**Photo #3 below**). The exhaust hangers should be inclined toward the front of the vehicle so that lower hole is approximately 10-15mm forward of the upper hole, this will allow the hangers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



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.



CAUTION: You can tighten the exhaust clamps until they are “snug”, but **DO NOT USE AN IMPACT WRENCH** and do not fully tighten them yet!



INSTALLING THE NEW EXHAUST SYSTEM

Step 6: 13mm & 15mm Sockets, Ratchet

Inspect the muffler and ensure that it is sitting level side-to-side as much as possible (**Photo #1**). Center and level the exhaust tip inside the bumper cut out (**Photo #2**).



CAUTION: You can tighten the exhaust clamps until they are “snug”, but **DO NOT USE AN IMPACT WRENCH** and do not fully tighten them yet!



INSTALLING THE NEW EXHAUST SYSTEM

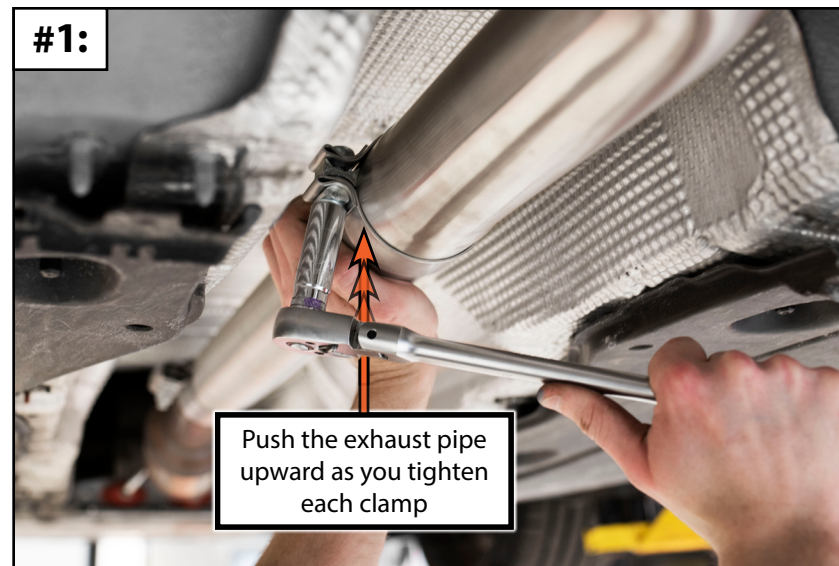
Step 7: 13mm & 15mm Sockets, Ratchet & Torque Wrench

Once the system is all adjusted, it's time to fully tighten down the clamps. Starting at the front and moving rearward, push upward on the exhaust system as you fully tighten each clamp (**Photo #1**), then let go and allow the exhaust to settle. Tighten the clamp on the exhaust tip to 19 Nm (14 Ft-lbs). Check again for clearance around all pipes.

Wipe any oil, grease, or fingerprints from the exhaust system.

Reinstall the chassis cross brace.

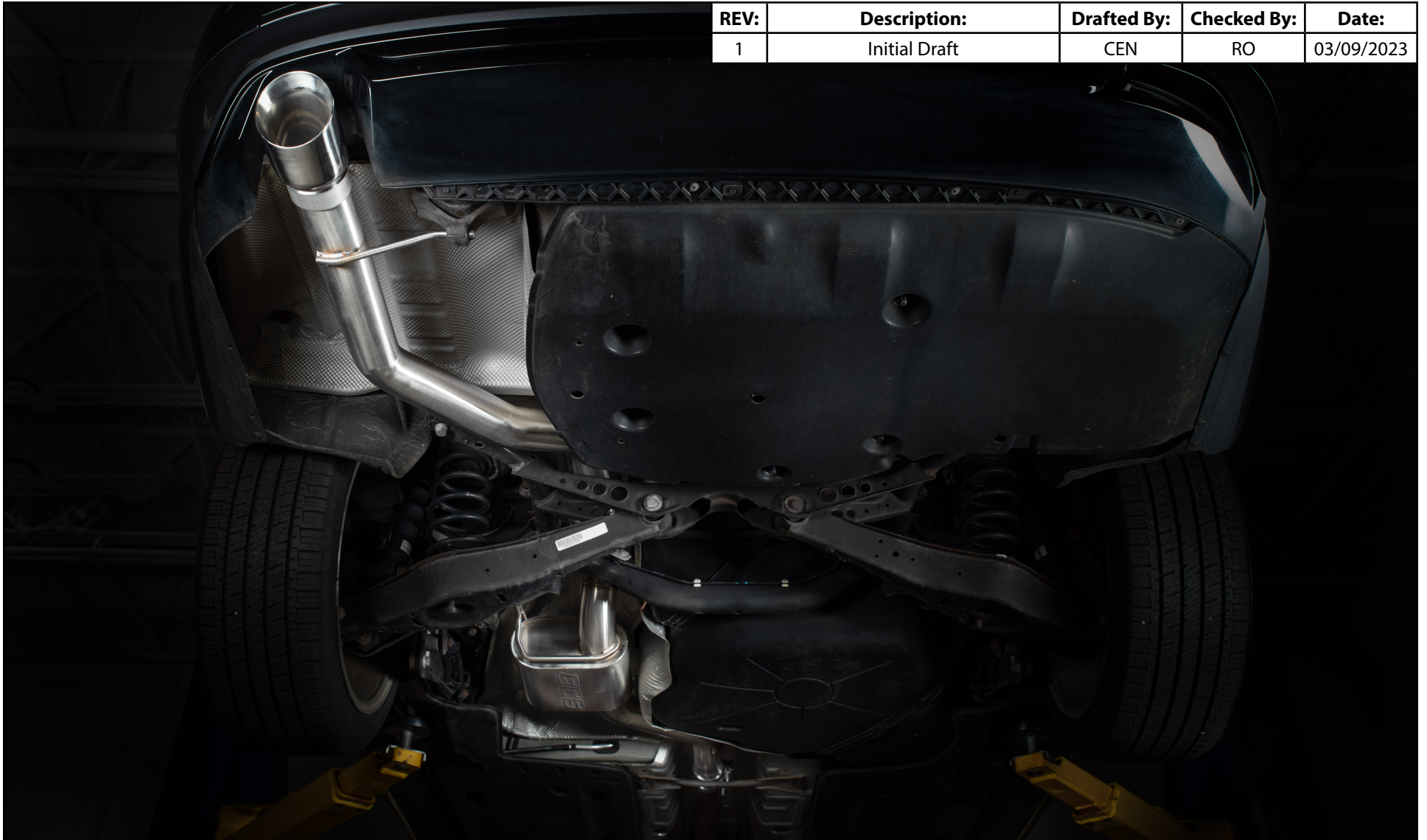
Recheck all fasteners after the vehicle has been driven 500 miles.



Congratulations, your installation is complete!

Your ECS Exhaust System installation is complete!

REV:	Description:	Drafted By:	Checked By:	Date:
1	Initial Draft	CEN	RO	03/09/2023



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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