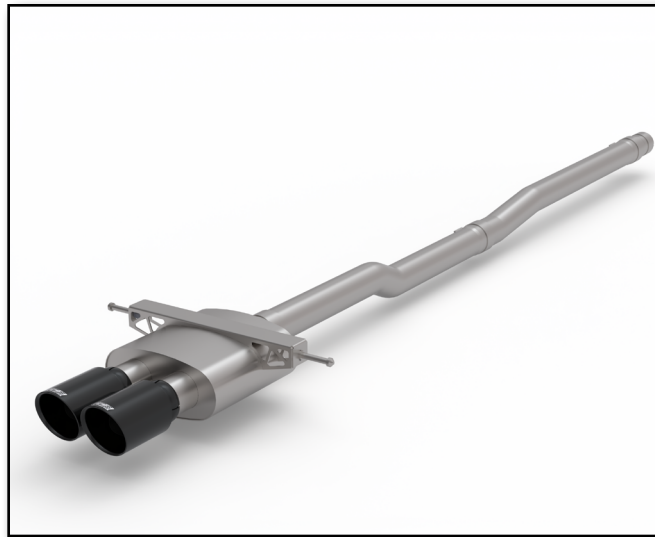
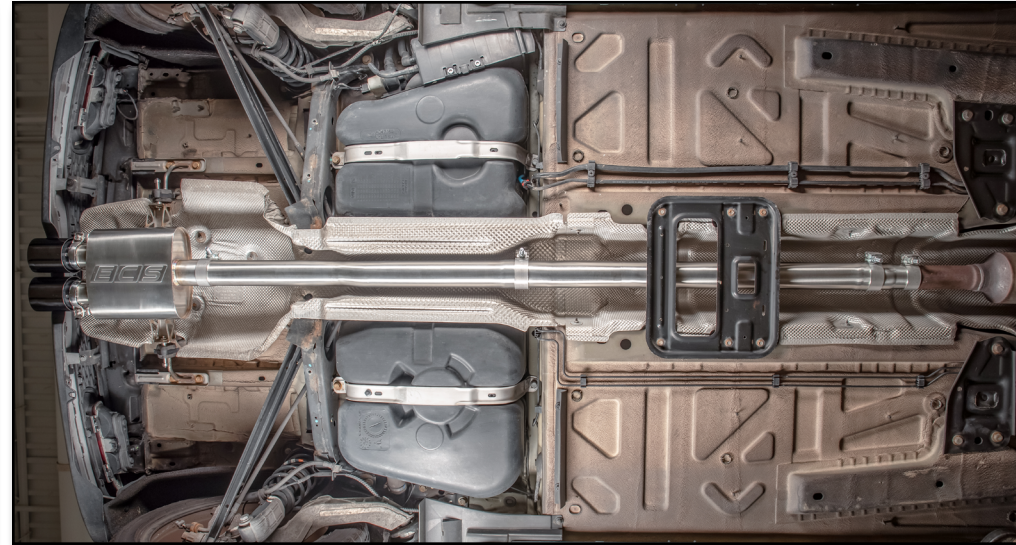
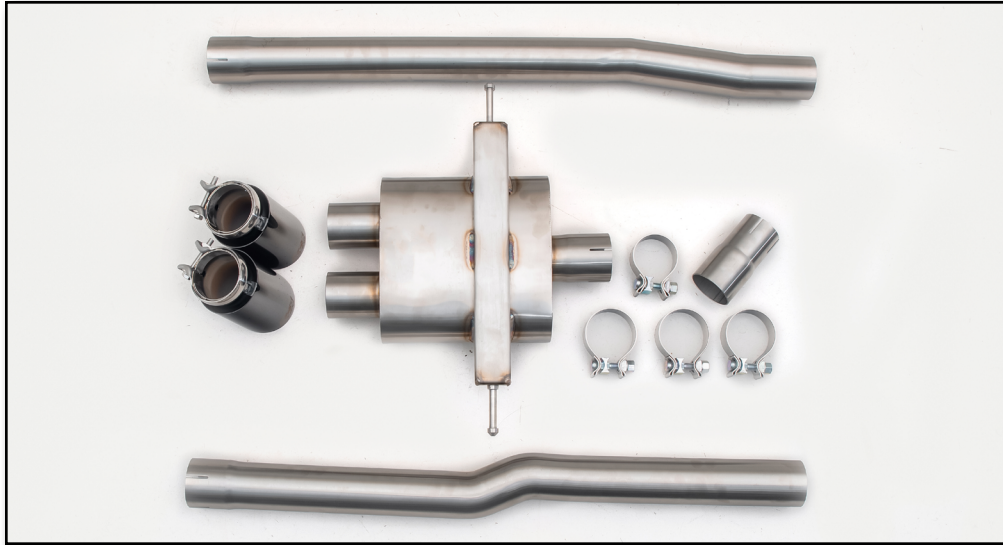




Mini R56 Cooper S Cat-Back Exhaust System Installation Instructions - [Click HERE to Shop](#)



Skill Level
1 - Easy
Basic Skills
Required

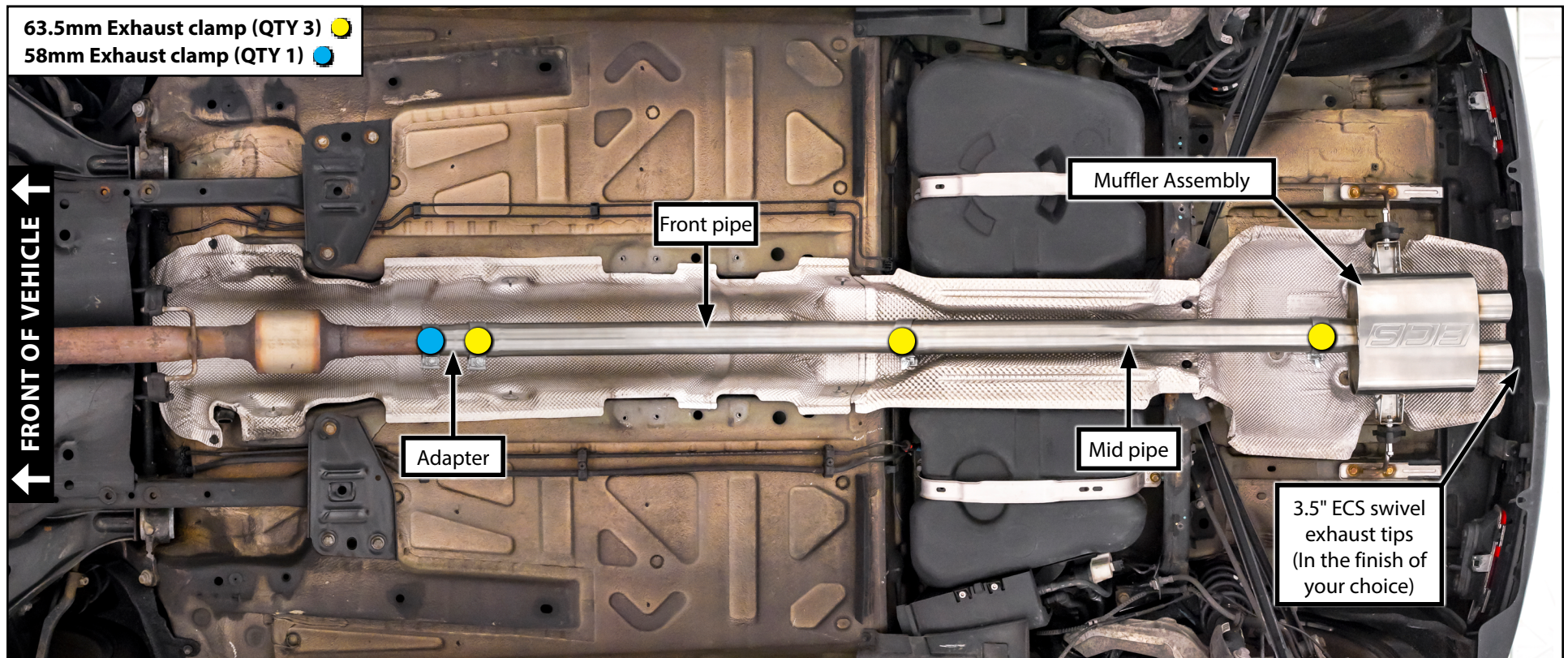


Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times 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



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.

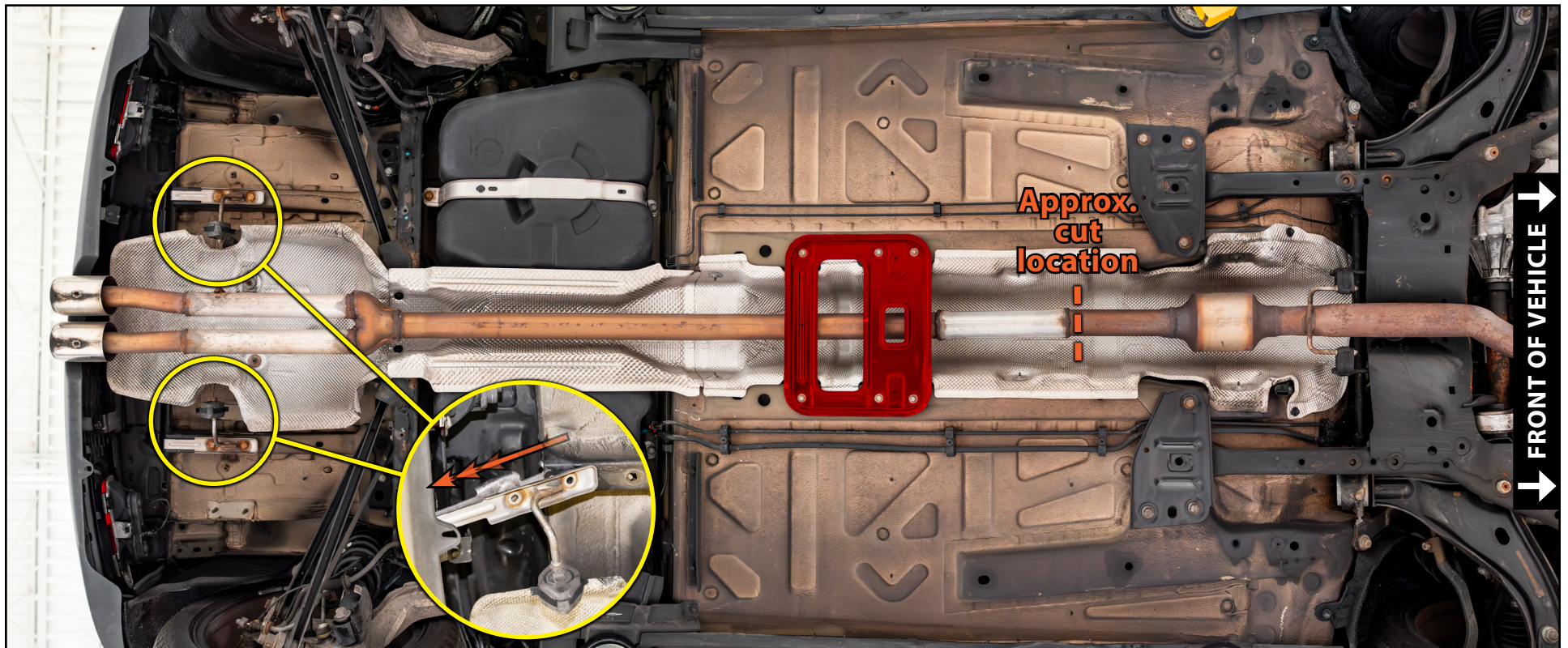


NEVER get underneath a vehicle that is supported only by a jack, and **ALWAYS** make sure that the vehicle is securely supported on jack stands.

REMOVING THE STOCK EXHAUST SYSTEM

Step 1: 10mm, 13mm Socket & Ratchet

Support the exhaust from below then remove the bolts and remove the chassis cross brace (highlighted in **RED**) from the underside of the vehicle. Remove the bolts that secure the muffler hangers (circled in **YELLOW**) and pull them rearward to free them from the vehicle (as shown in inset photo). The stock exhaust system must be cut to be removed, proceed to the next page for instructions on measuring and cutting the exhaust.



REMOVING THE STOCK MUFFLER

Step 2: Measuring Tape & Marker -or- Masking Tape

Measure 7" downstream from the weld on the secondary cat and make a mark all the way around the pipe, this is where we will be making our cut.



It is **absolutely imperative** that you take your time here and double or triple check your marks before you cut anything. There is no turning back once the pipe has been cut, so measure twice, cut once!



Step 3: Exhaust Pipe Cutter -or- Reciprocating Saw

Cut along the line made in the previous step being sure to cut as straight as possible until you cut all the way through the pipe. Use a metal file or die grinder to remove any burrs from the exhaust pipe that we cut, this will ensure a proper fit and seal once the new pipe is installed.

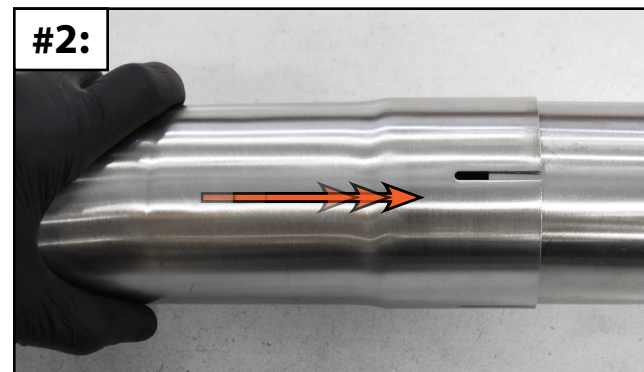
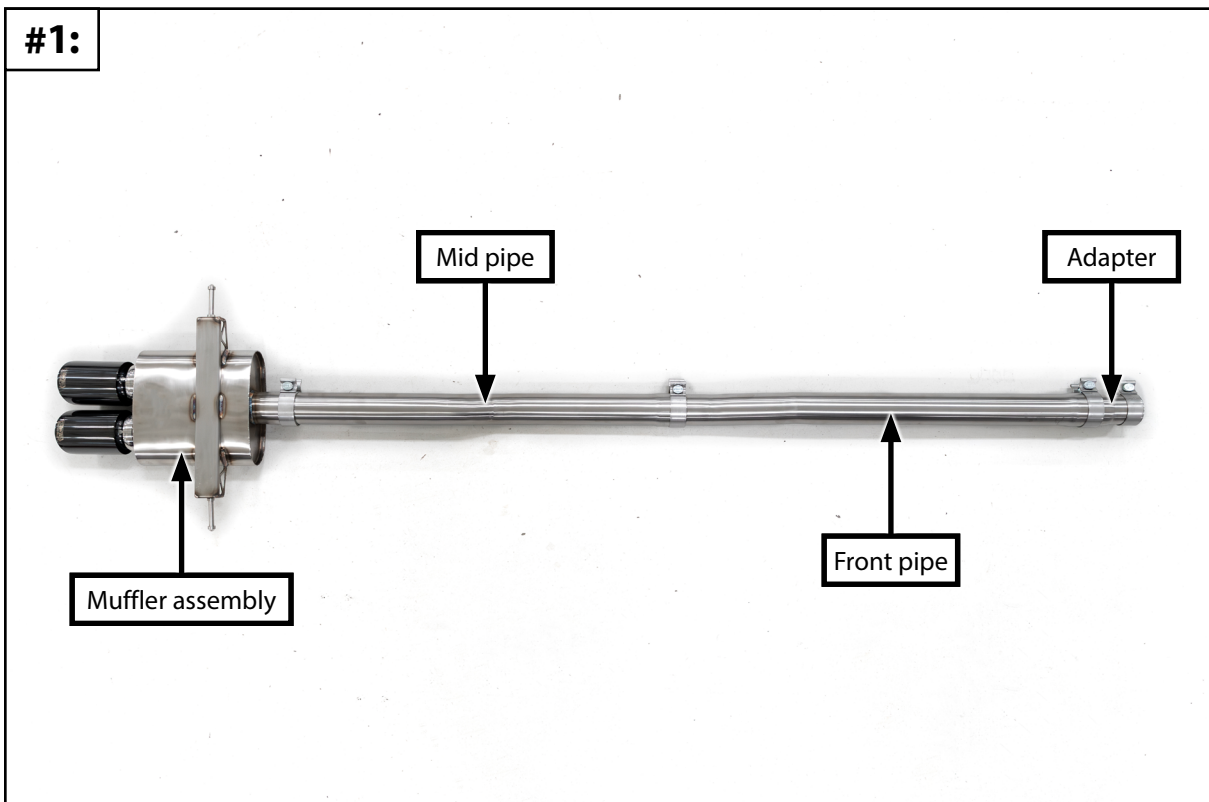


INSTALLING THE NEW EXHAUST SYSTEM

Step 1: Pipe Expander Tool -or- 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, use a pipe expander tool or gently tap on the ends of the pipes with a ball pein hammer to straighten them, then recheck fitment. Transfer the exhaust hangers from the stock muffler over to the new muffler assembly (**Photo #3**).

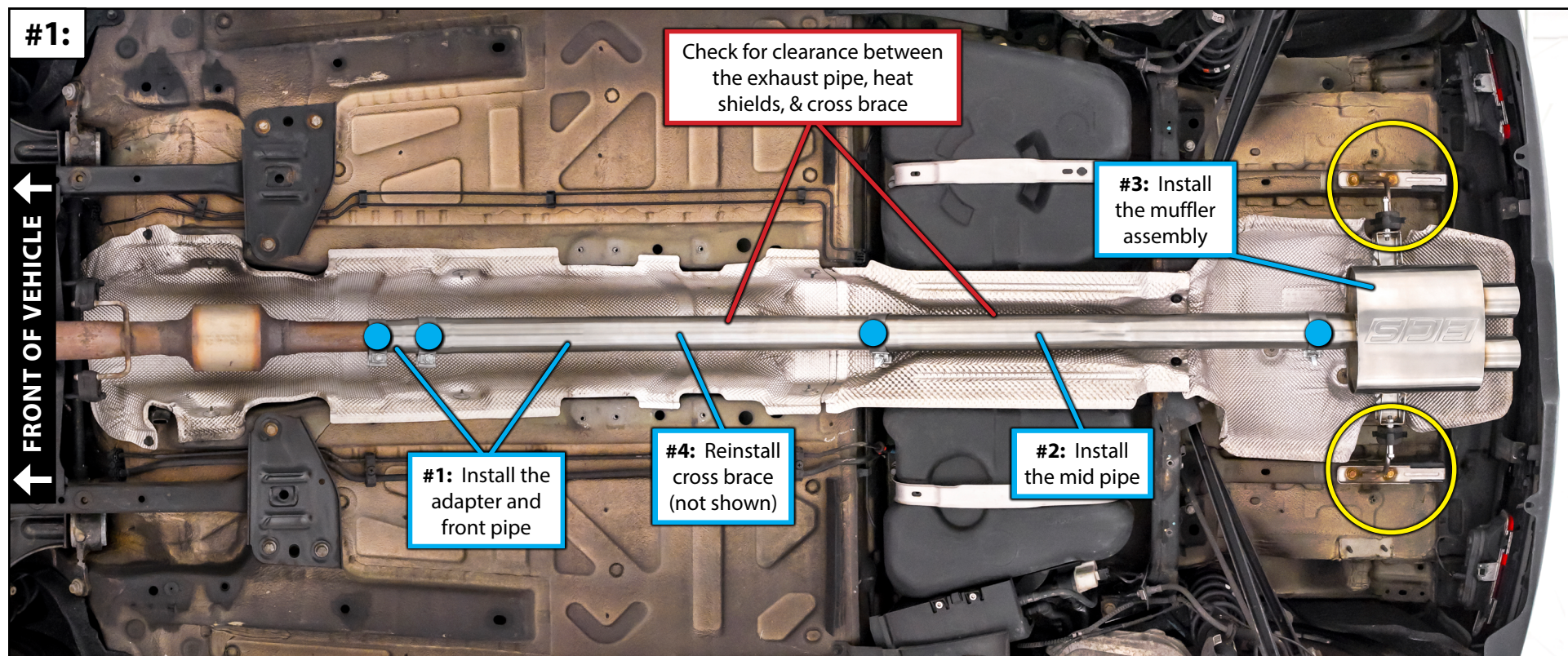
Please note that during this installation, you will be installing the exhaust from front-to-back **WITHOUT** tightening any of the clamps. Once the system is installed, we will then show you how to position the system properly and you will tighten the clamps **AFTER** that is complete. Proceed to the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



INSTALLING THE NEW EXHAUST SYSTEM

Step 2: 13mm & 15mm Sockets, Ratchet

Install the exhaust system in the order shown in **Photo #1** below. Reinstall the muffler 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 10. Closely inspect the exhaust system from front to back to ensure clearance between the pipes and nearby chassis components.



INSTALLING THE NEW EXHAUST SYSTEM

Step 3: 13mm & 15mm Sockets, Ratchet

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

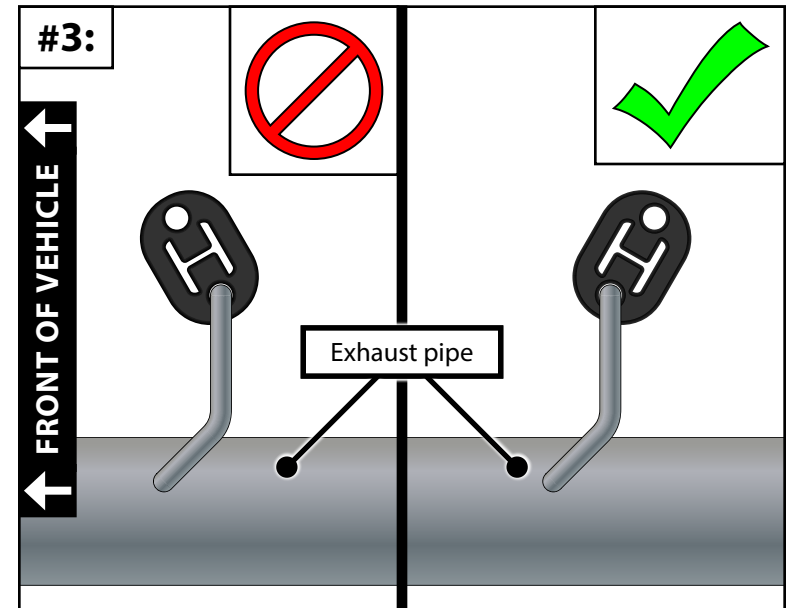
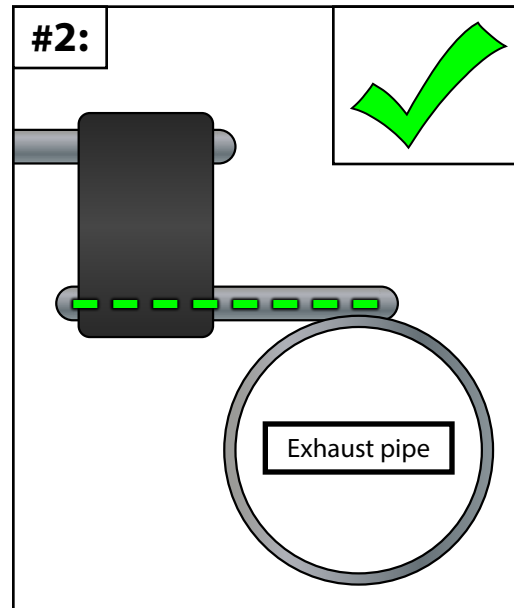
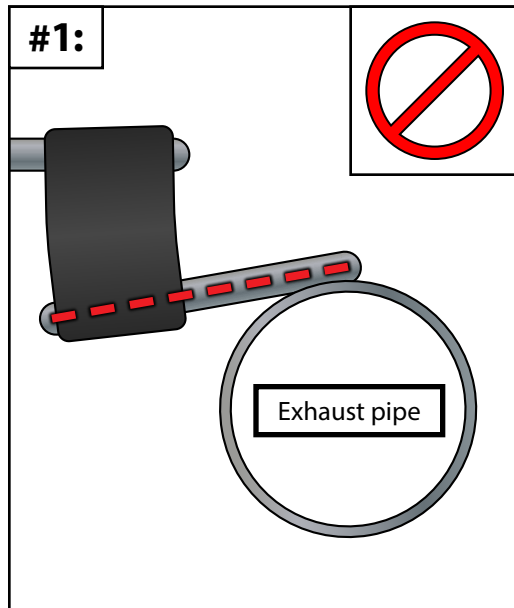
Finally, we want to ensure that the exhaust hangers are rotated at least slightly toward the front of the vehicle (**Photo #3 below**). The exhaust hangers should be inclined toward the front of the vehicle so that lower hole is approximately 10-15mm forward of the upper hole, this will allow the hangers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

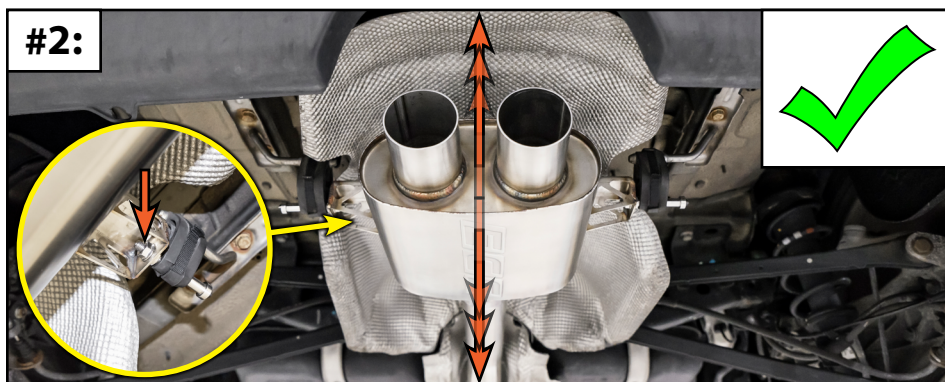
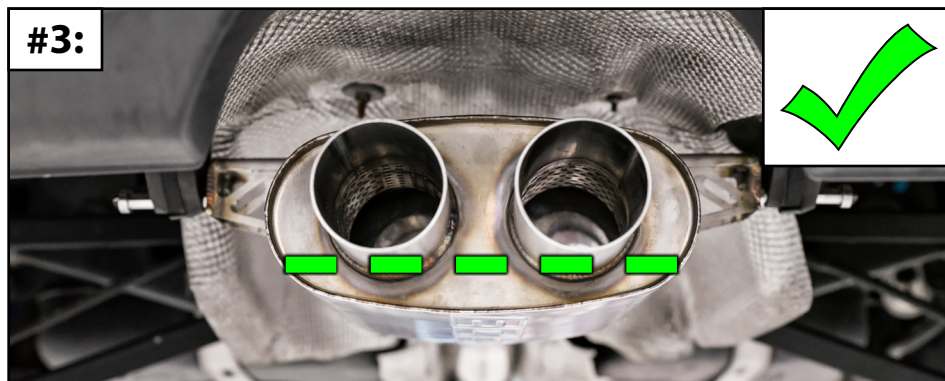
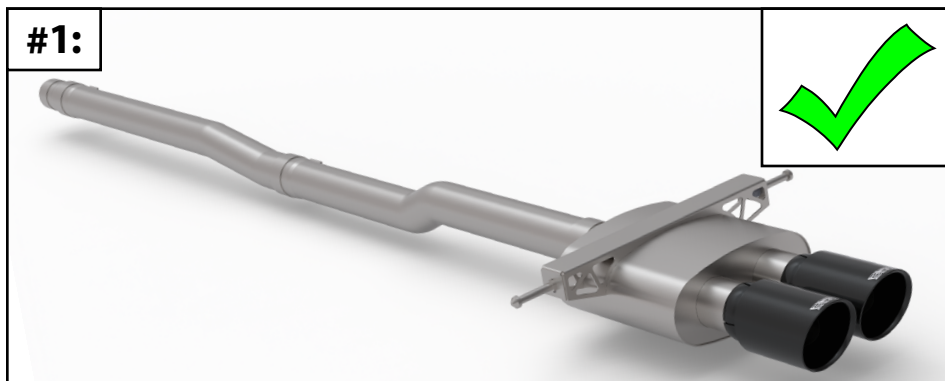


INSTALLING THE NEW EXHAUST SYSTEM

Step 4: 13mm & 15mm Sockets, Ratchet

Rotate the front and mid pipe until the bents are straight up and down, then tighten the clamps until fully snug (**Photo #1**). Adjust the muffler up or down until the muffler is tucked up as high as possible while still allowing clearance for the heat shields, then tighten the nuts (arrow in inset photo) to secure the hanger rods in this position (**Photo #2**). Inspect the muffler and ensure it is sitting perfectly level side-to-side, loosen the hanger rods and adjust as needed (**Photo #3**). Install the exhaust tips and adjust them until they are centered within the bumper cutout, then slide the exhaust tips in or out until your desired depth is achieved and fully tighten the clamps (**Photo #4**).

Congratulations, your installation is complete!



Your ECS Exhaust System 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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