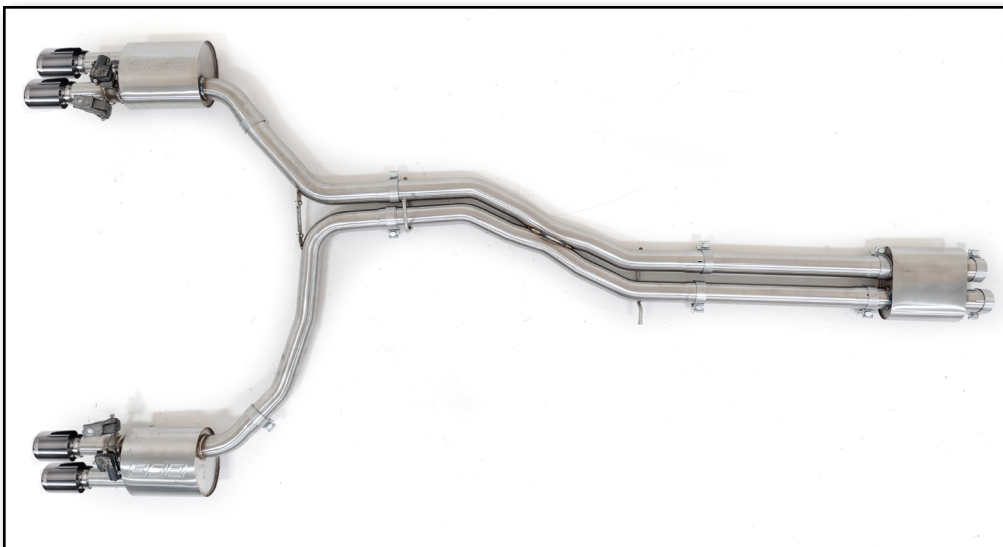




Audi D4 4.0T Cat-Back Exhaust System Installation Instructions - [Click HERE to Shop](#)



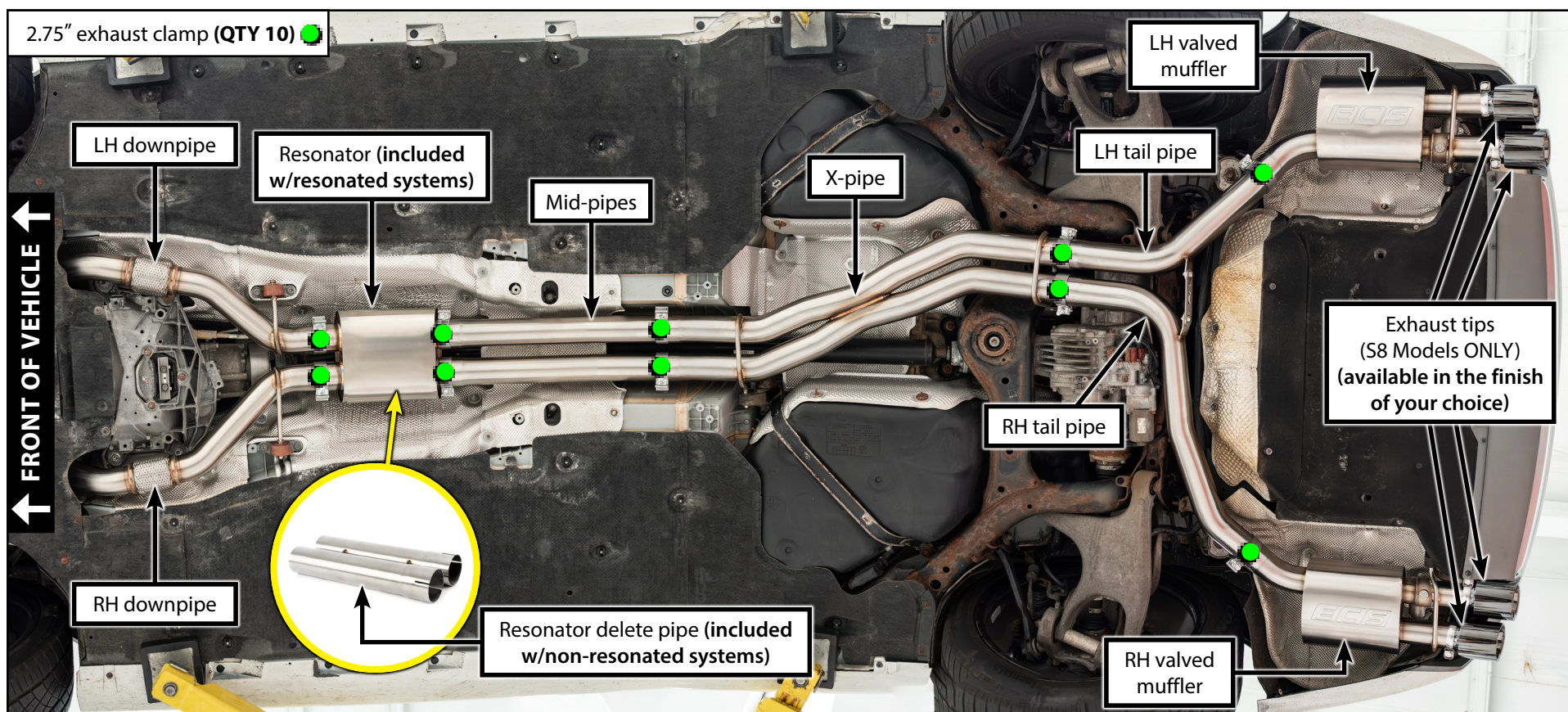
Skill Level
2 - Moderate
Some Experience
Recommended



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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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](#)

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.

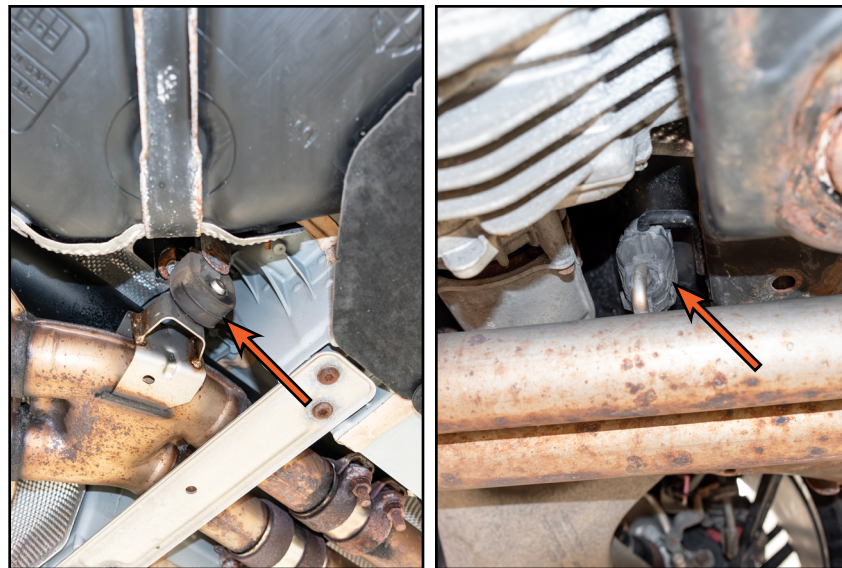


NEVER get underneath a vehicle that is supported only by a jack, and **ALWAYS** make sure that the vehicle is securely supported on jack stands.

REMOVING THE STOCK EXHAUST SYSTEM

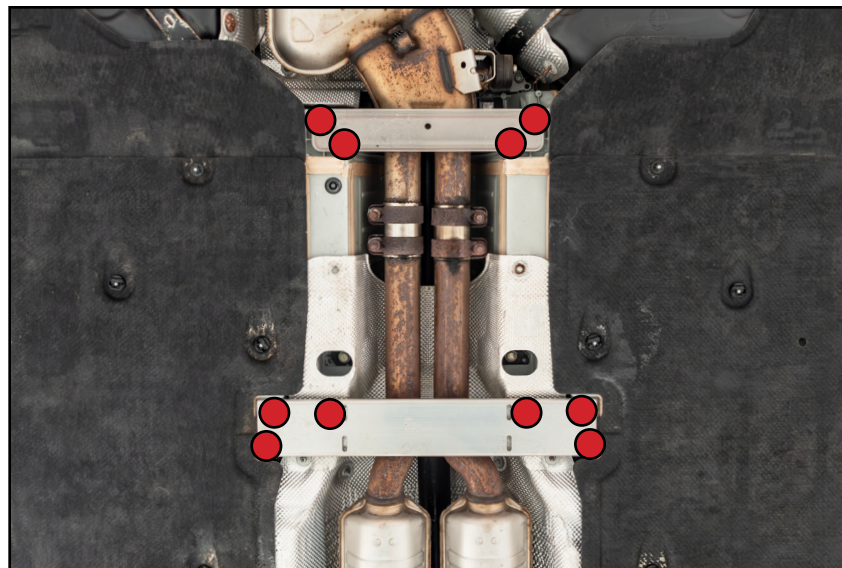
Step 1: Exhaust Hanger Removal Pliers

Disconnect the exhaust system from the front and middle exhaust hangers (arrows).



Step 2: T45 Torx Socket & Ratchet

Remove the screws (RED circles) and remove the chassis cross braces from the underside of the vehicle.



REMOVING THE STOCK EXHAUST SYSTEM

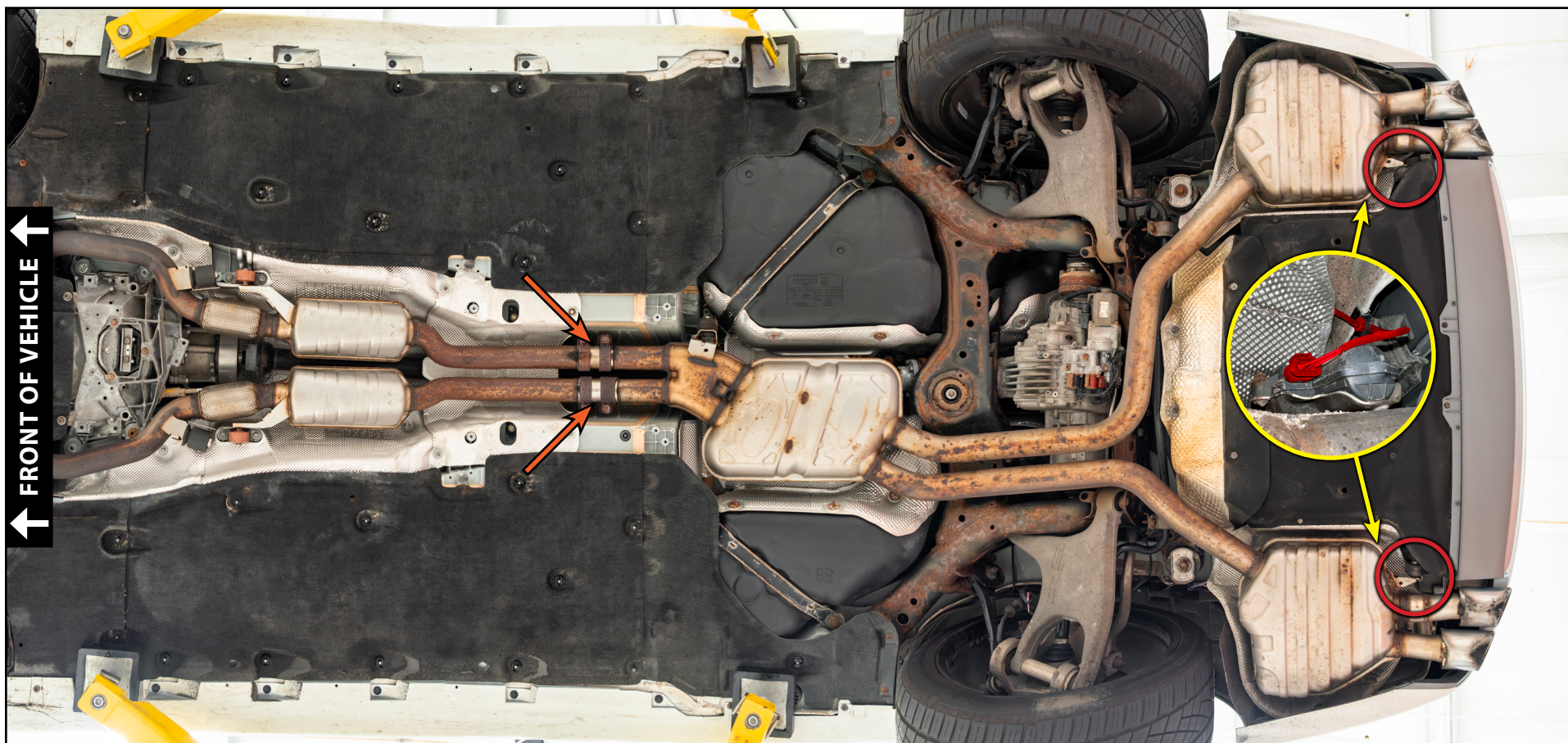
Step 3: 13mm Socket & Ratchet

Support the exhaust from below, then loosen the two nuts on each sleeve clamp (arrows) and slide them rearward onto the stock exhaust.

S8 & Facelift A8 Models: Disconnect the connector (highlighted in **RED** in inset photo) from the valve controller on each muffler.

Pre-Facelift (2011-2014) A8 Models ONLY: Disconnect the vacuum line from the exhaust valve on each muffler (not shown).

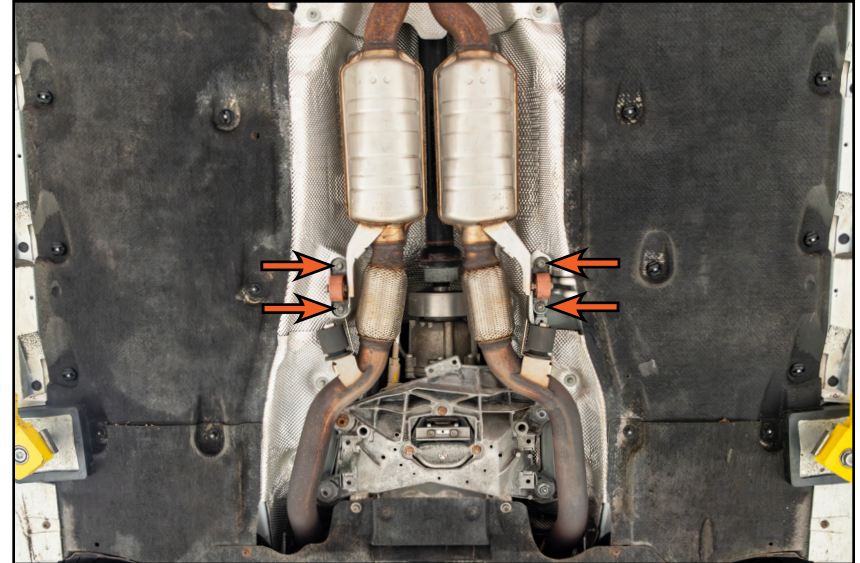
Unbolt the rear muffler hangers (circled in **RED**), and carefully guide the exhaust system free from the vehicle.



REMOVING THE STOCK EXHAUST SYSTEM

Step 4: M10 Triple Square Socket & Ratchet

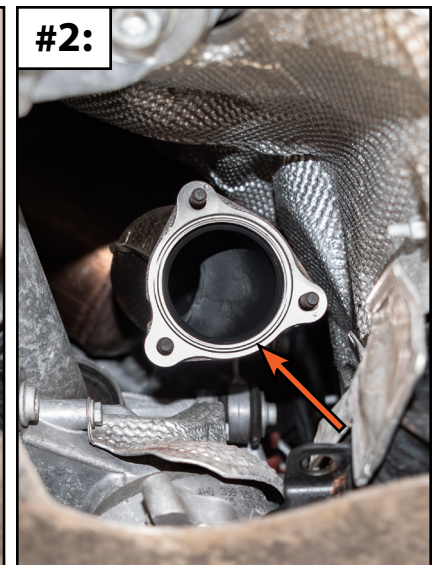
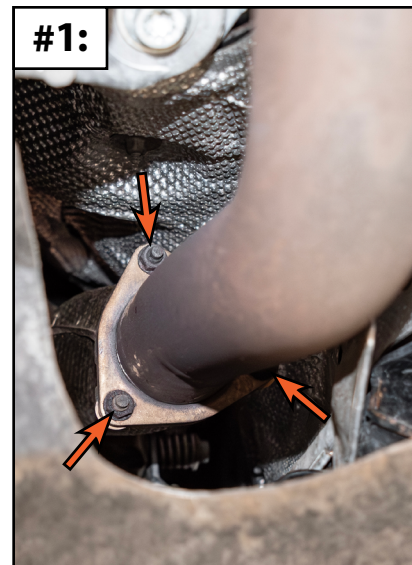
Support the downpipes from below then remove the four screws (arrows) that secure the downpipe hangers to the underside of the vehicle.



Step 5: 12mm Socket & Ratchet

Remove the three nuts (arrows in **Photo #1**) that secure each stock downpipe to the catalytic converter, then carefully guide the downpipes free from the vehicle.

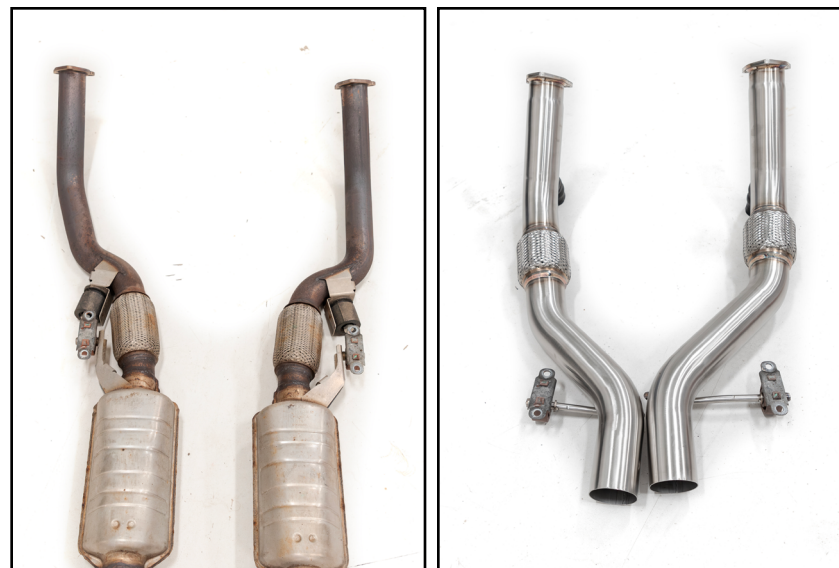
Pull each downpipe gasket (arrow in **Photo #2**) free from catalytic converter and replace them with the replacements provided in the kit.



INSTALLING THE NEW EXHAUST SYSTEM

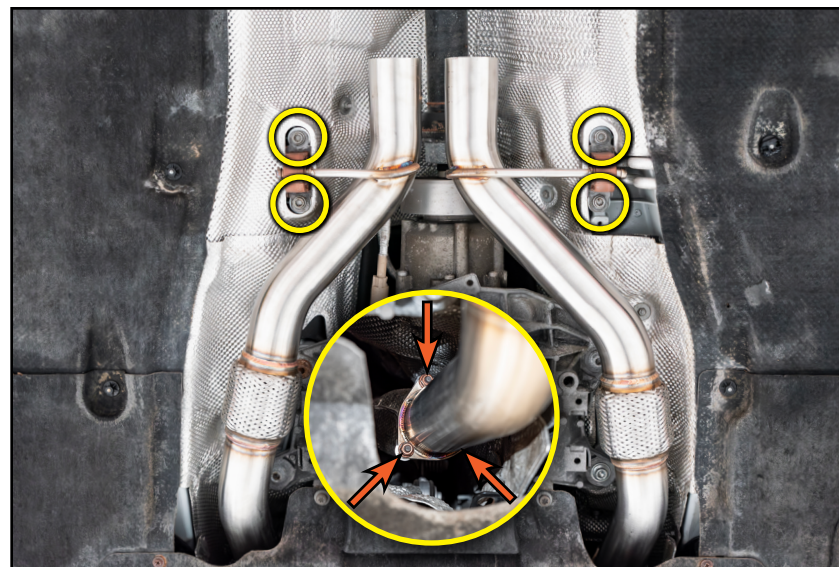
Step 1: Exhaust Hanger Removal Pliers

Remove the hangers from the stock downpipes and transfer them to the new downpipes as shown.



Step 2: M10 Triple Square, 12mm Socket & Torque Wrench

Lift each new downpipe into place and secure it with the provided nuts (arrows in inset photo), torquing them to 25 Nm (18 ft-lbs). Reinstall the screws (circled in **YELLOW**) to secure the downpipe hangers to the underside of the vehicle and torque them to 23 Nm (17 Ft-lbs).

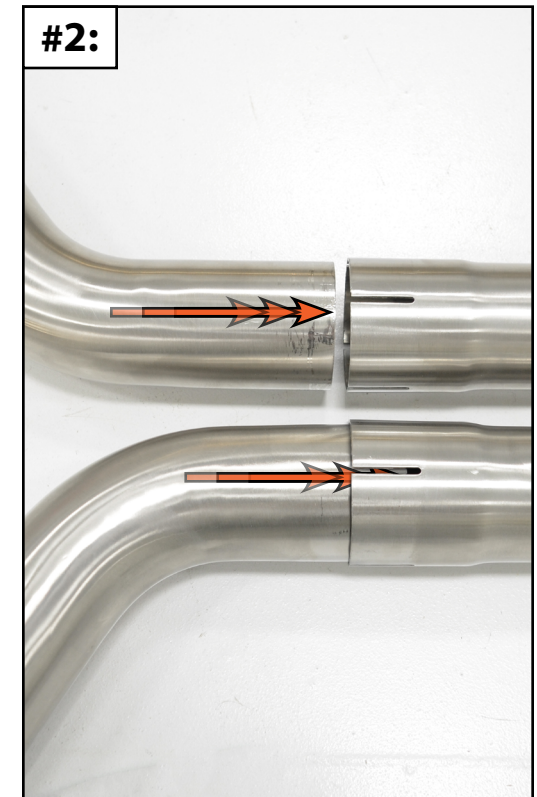
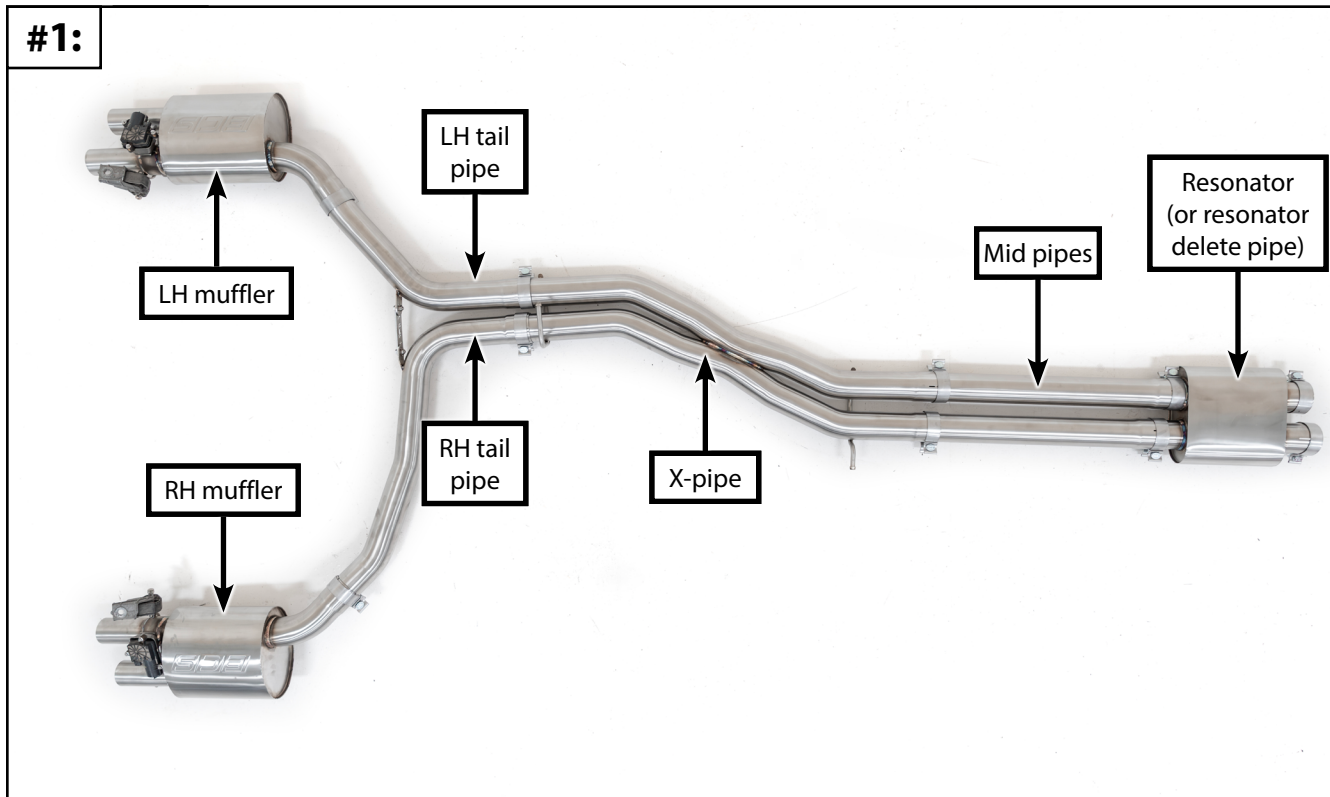


INSTALLING THE NEW EXHAUST SYSTEM

Step 3: Pipe Expander Tool, Ball Pein Hammer

Before we begin, unpack your new exhaust system, lay it out on the floor (**Photo #1**), and inspect all of the slip joints for any signs of damage during shipping. 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.

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 properly adjust the system 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 4: Exhaust Hanger Removal Pliers

Remove the hangers from the stock mufflers and transfer them to the new mufflers as shown.

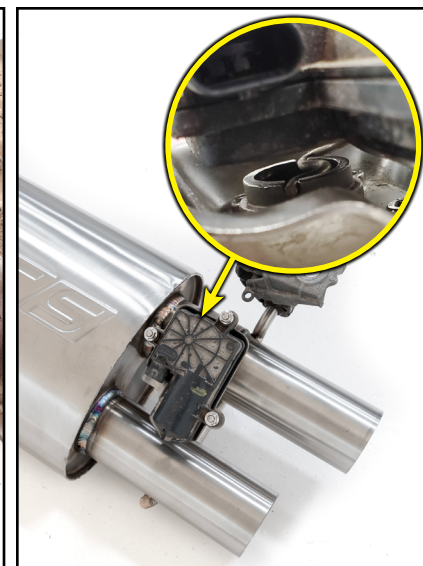
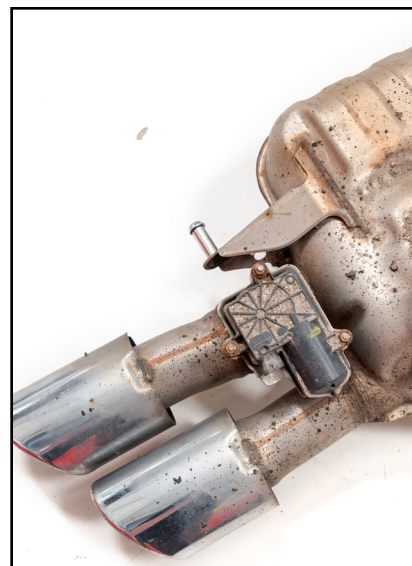


Step 5: 8mm Socket & Ratchet

S8 & Facelift A8 Models: Remove each valve controller from the stock muffler and transfer them to the new mufflers, securing them in place using the provided hardware.



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.



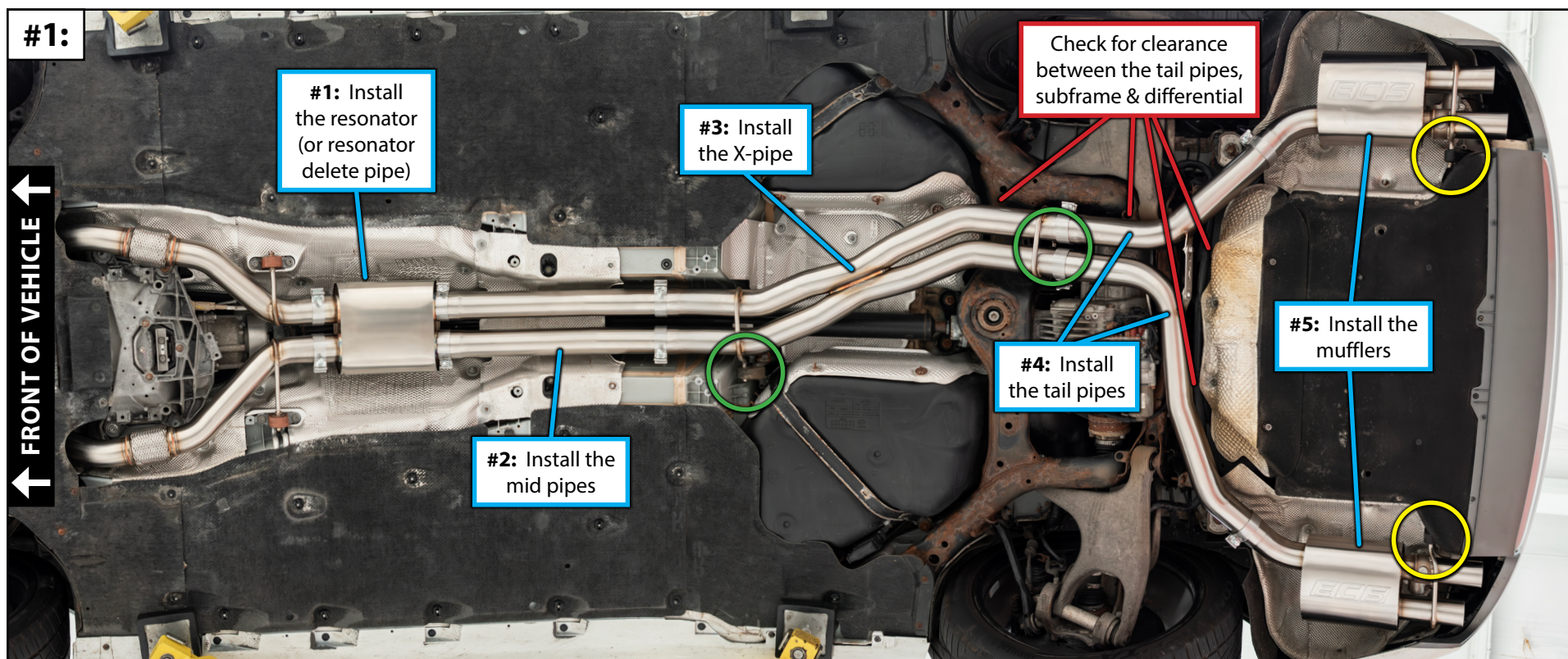
INSTALLING THE NEW EXHAUST SYSTEM

Step 6: 15mm Socket & Ratchet

Loosely install the exhaust system in the order shown in **Photo #1** below. Resecure the muffler hangers (circled in **YELLOW**) to the underside of the vehicle, then reconnect the front and middle exhaust hangers (circled in **GREEN**).

Next, we'll need to adjust the exhaust system for proper fitment. The key to proper adjustment is patience, take your time and **DO NOT** fully tighten any of the clamps until **AFTER** you've performed all of the steps up through Page 13.

Closely inspect the exhaust system from front to back to ensure clearance between the pipes and nearby components, adjusting as needed to ensure clearance.



INSTALLING THE NEW EXHAUST SYSTEM

Step 7: 15mm Sockets, Ratchet

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

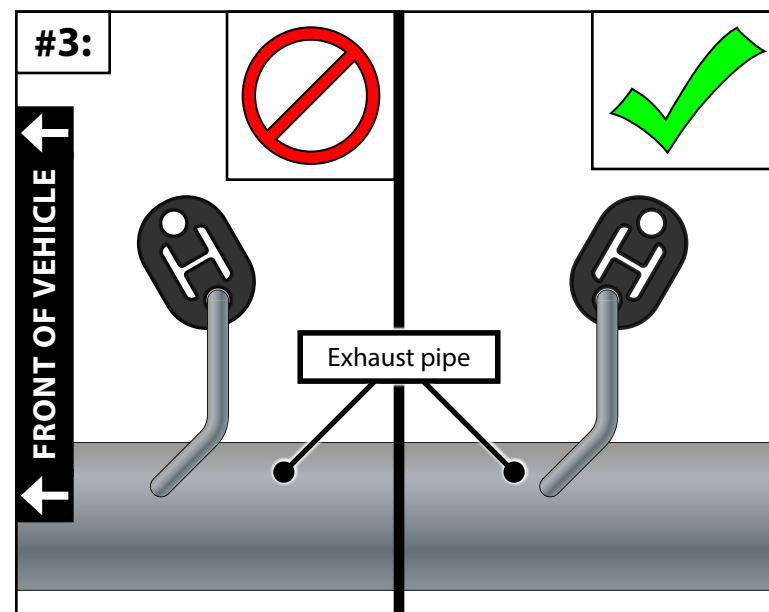
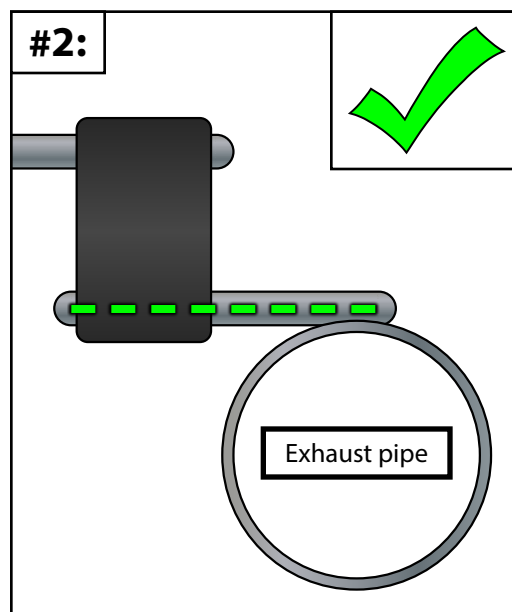
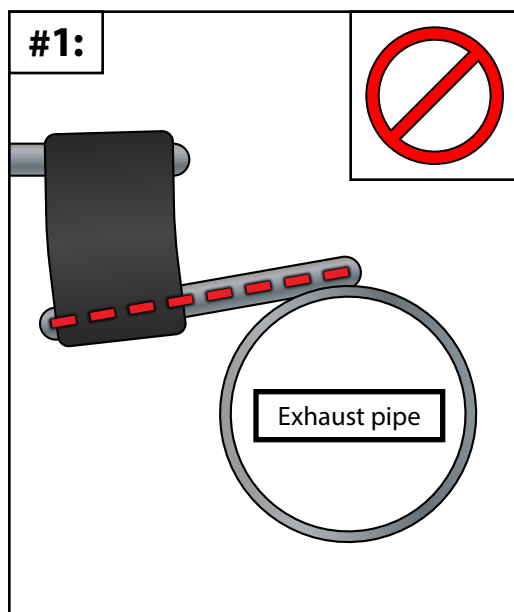
Finally, we want to ensure that the exhaust hangers are rotated at least slightly toward the front of the vehicle (**Photo #3 below**). The exhaust hangers should be inclined toward the front of the vehicle so that lower hole is approximately 10-15mm forward of the upper hole, this will allow the hangers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



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!

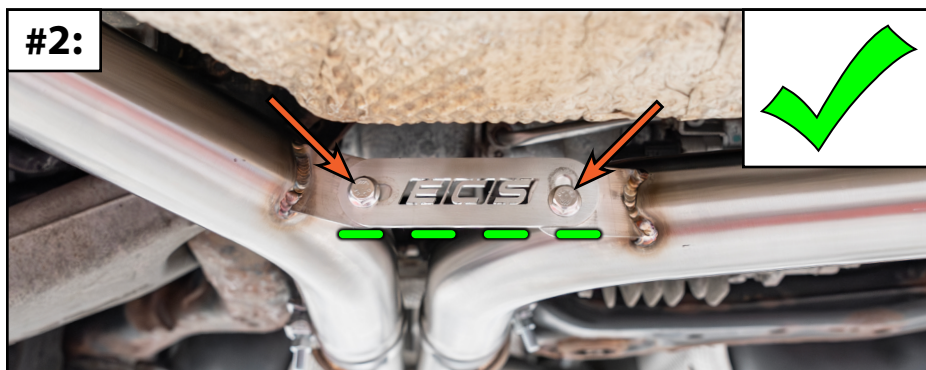
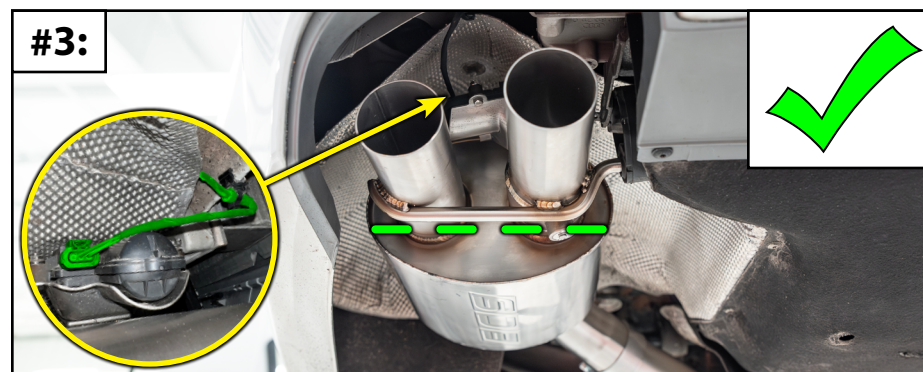
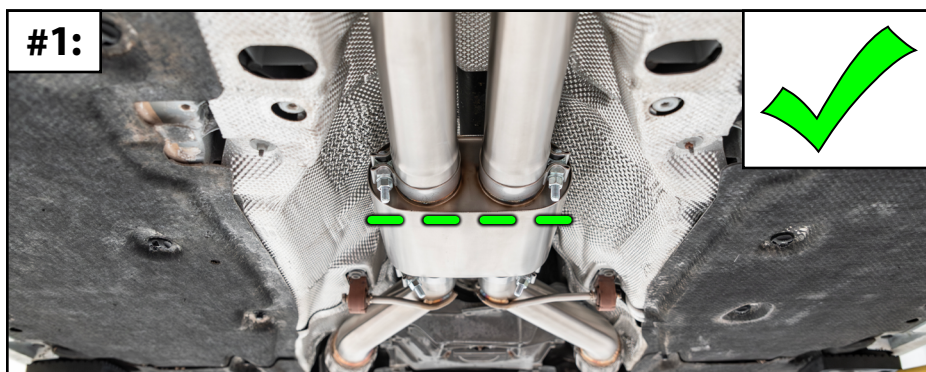


INSTALLING THE NEW EXHAUST SYSTEM

Step 8: 13mm & 15mm Sockets, Ratchet

Inspect the resonator (or resonator delete pipes) and ensure it is sitting level side-to-side as much as possible (**Photo #1**). Install and level the logo plate between the two rear pipes and tighten the bolts (arrows in **Photo #2**) until snug. Inspect the tail pipes and ensure they are centered in the bumper cutouts and level side-to-side and front-to-back (**Photos #3 & #4**). Reconnect the connector (highlighted in **GREEN** in inset photo) or vacuum line (not shown) for each exhaust valve.

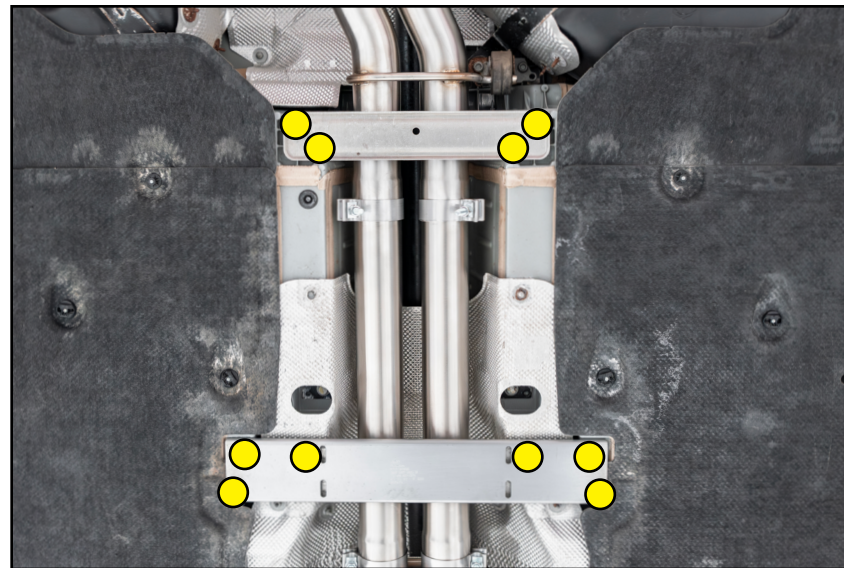
Once the system is properly adjusted, it's time to fully tighten down the clamps. Starting at the front and moving rearward, push upward on the exhaust system as you fully tighten each clamp, then let go and allow the exhaust to settle. Check again for clearance around all pipes.



INSTALLING THE NEW EXHAUST SYSTEM

Step 9: T45 Torx Socket & Ratchet

Reinstall the chassis cross braces and tighten the screws (**YELLOW** circles) to 24 Nm (18 Ft-lbs).



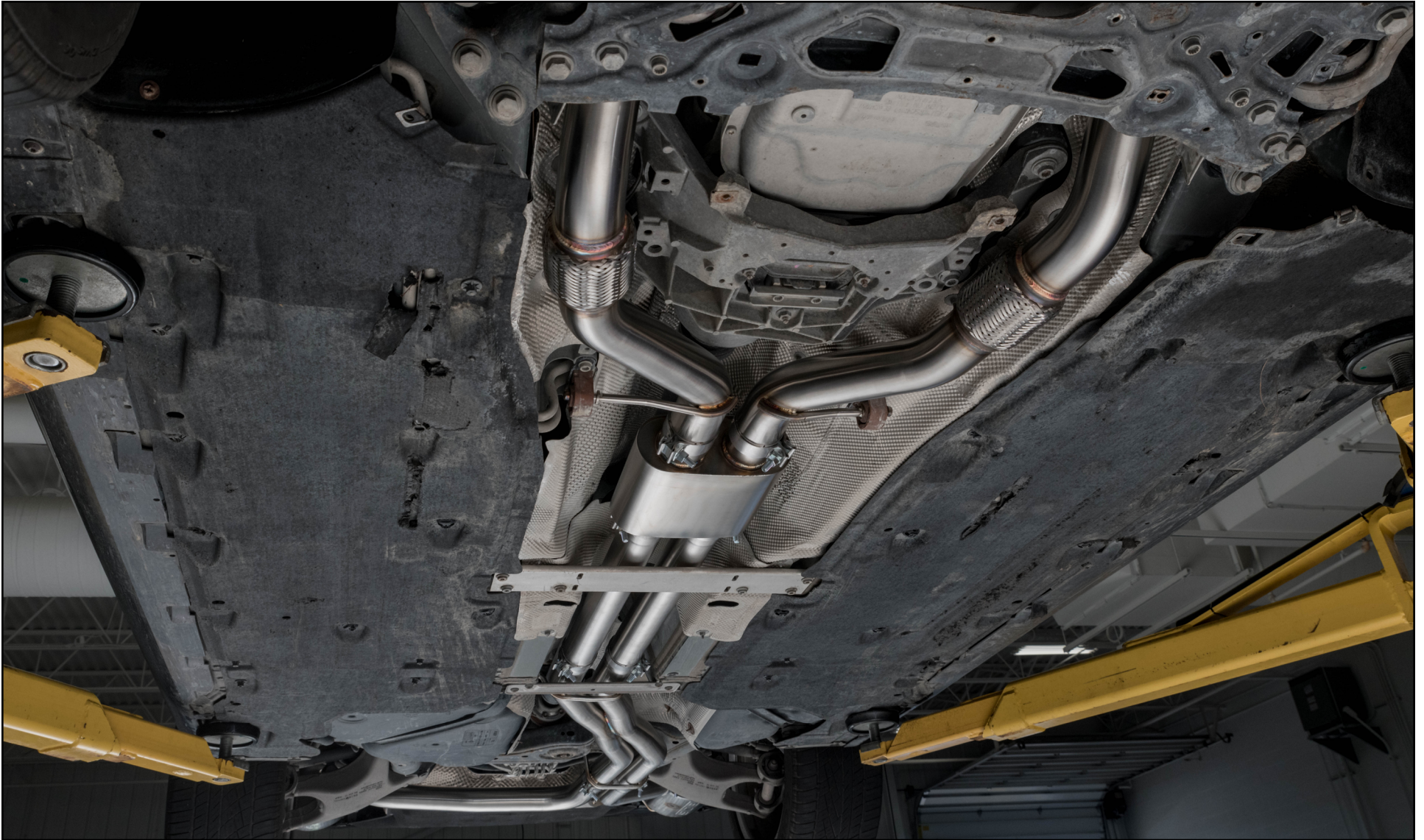
Step 10: 13mm Socket & Ratchet

S8 Models ONLY: Install the exhaust tips and ensure they are centered in the bumper cutouts, then tighten the clamps until fully snug.



Congratulations, your installation is complete!

Your Cat-Back 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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