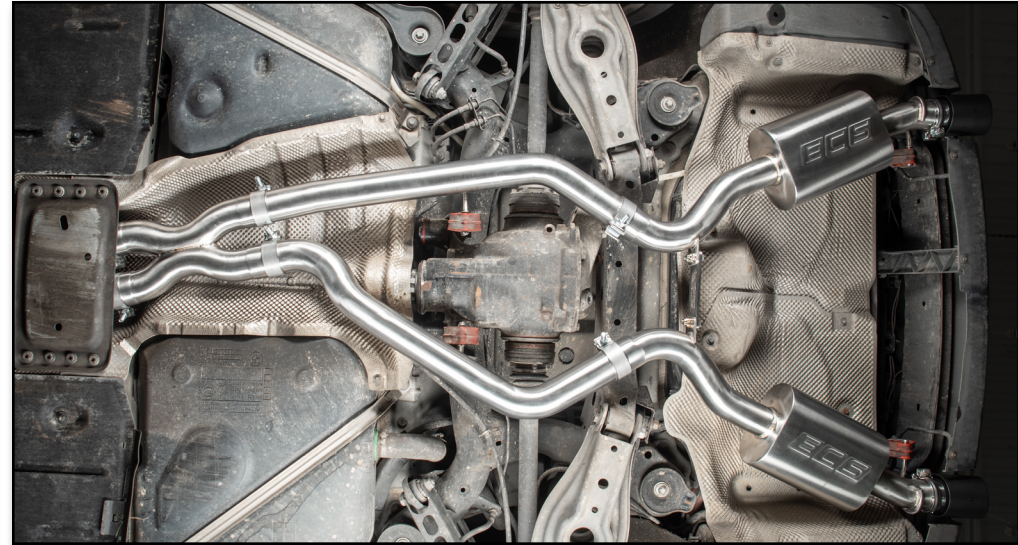




BMW E9x 335i N54/N55 Exhaust System Installation Instructions - [Click HERE to Shop](#)



Skill Level
1 - Easy
Basic Skills
Required



*Axle-back exhaust kit shown



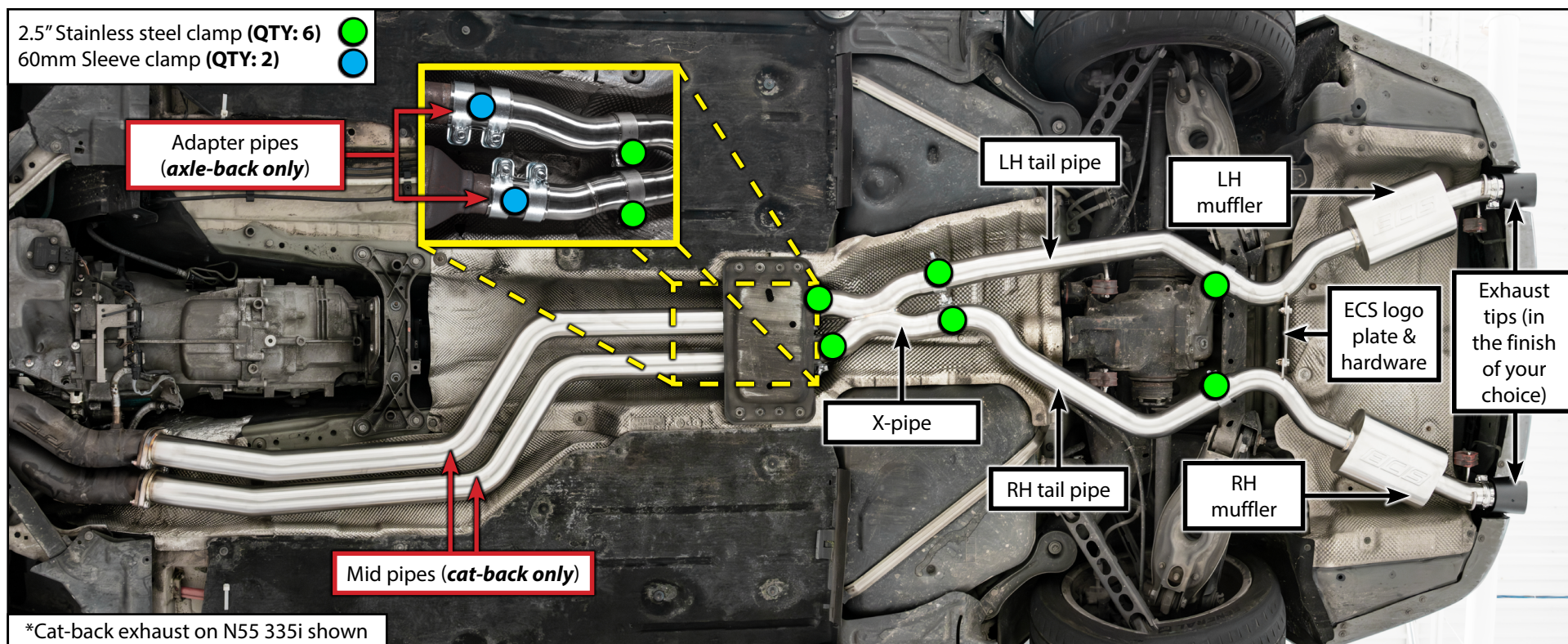
*Cat-back exhaust kit shown

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

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 Remover Pliers** [ES#2784927](#)
- **Exhaust Pipe Cutter** [ES#3106581](#)

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

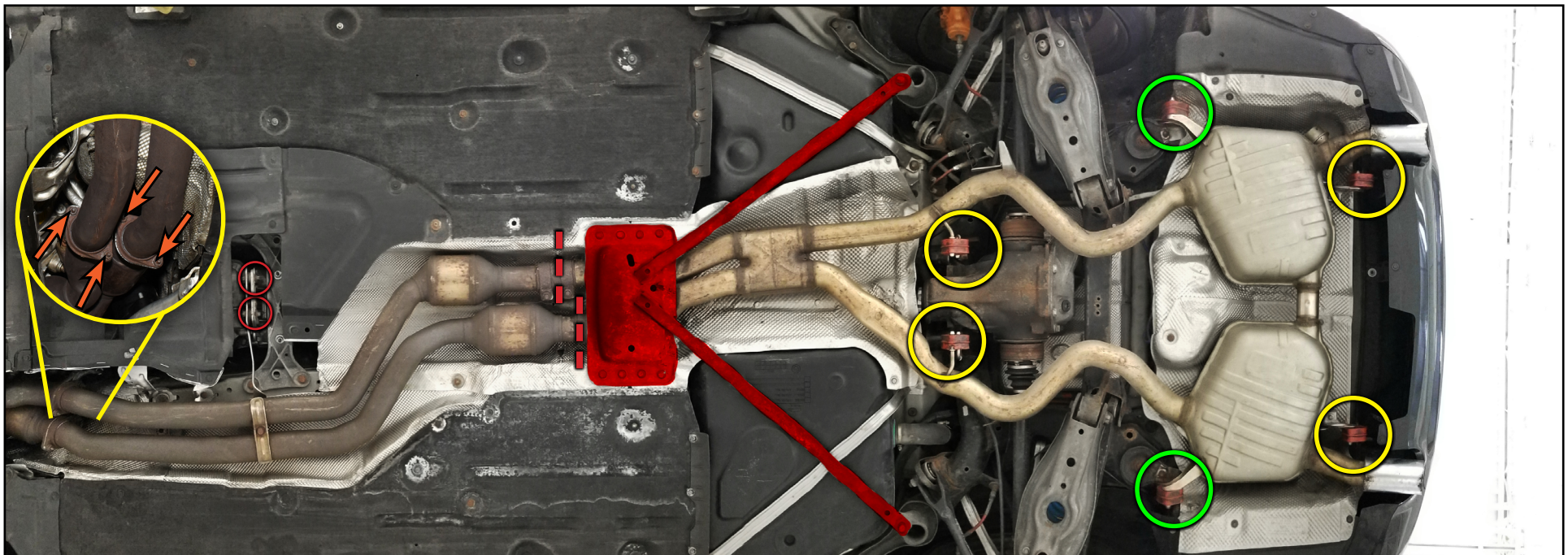
Step 1: 13mm, 16mm, 18mm Sockets, Exhaust Hanger Pliers & Exhaust Pipe Cutters

Safely lift and support the vehicle, then remove the chassis cross brace (highlighted in **RED**). Support the exhaust system from below, then release the exhaust hangers (circled in **YELLOW**) from the exhaust system, and unbolt the frontmost muffler hangers (circled in **GREEN**) from the vehicle. Safely remove the exhaust system from the vehicle.

For cat-back systems only: Remove the nuts (arrows in inset photo) that secure the exhaust system to the catalytic converters, then remove the bolts (circled in **RED**) that secure the exhaust bracket to the transmission crossmember. Skip ahead to page 7.



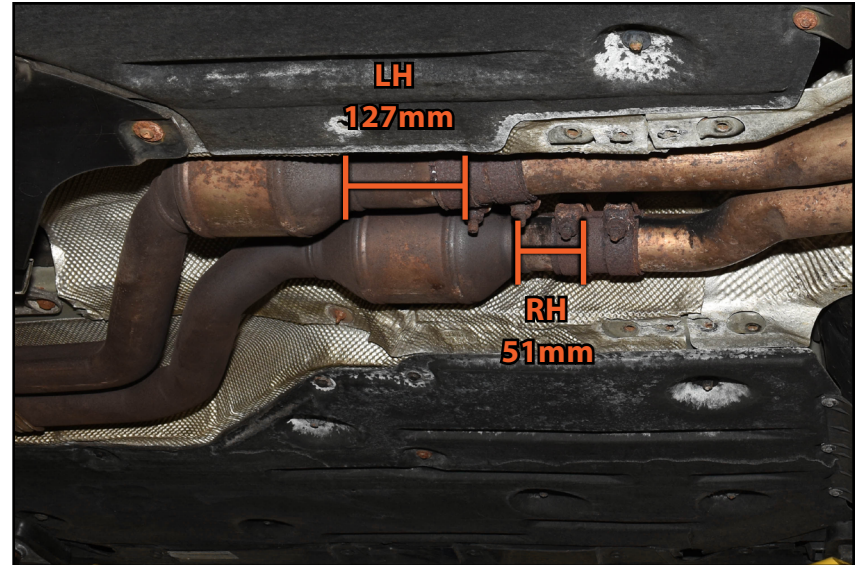
For axle-back systems only: The exhaust system must be cut (**RED** dotted lines) downstream of the secondary catalytic converters. Proceed to the next page for instructions on cutting the exhaust system.



REMOVING THE STOCK EXHAUST SYSTEM

Step 2: Marker - OR - Masking Tape

Axle-back exhaust systems only: Measure 5" (127mm) downstream from the weld on the LH secondary catalytic converter, then measure 2" (51mm) downstream from the weld on the RH secondary catalytic converter, and mark the pipes to be cut.



Step 3: Exhaust Pipe Cutter, Metal File - OR - Die Grinder

Axle-back exhaust systems only: Cut along the line (**RED** dotted lines), 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 pipes that we cut, this will ensure a proper fit and seal.



It is **absolutely imperative** that you take your time here and double or triple check your marks before you cut anything.



INSTALLING THE NEW EXHAUST SYSTEM

Step 1: Pipe Expander -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. 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. 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.

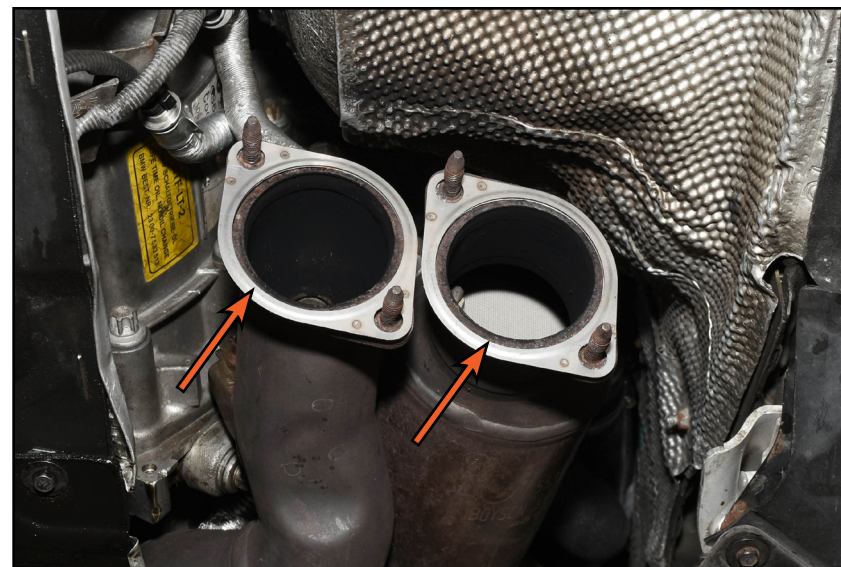
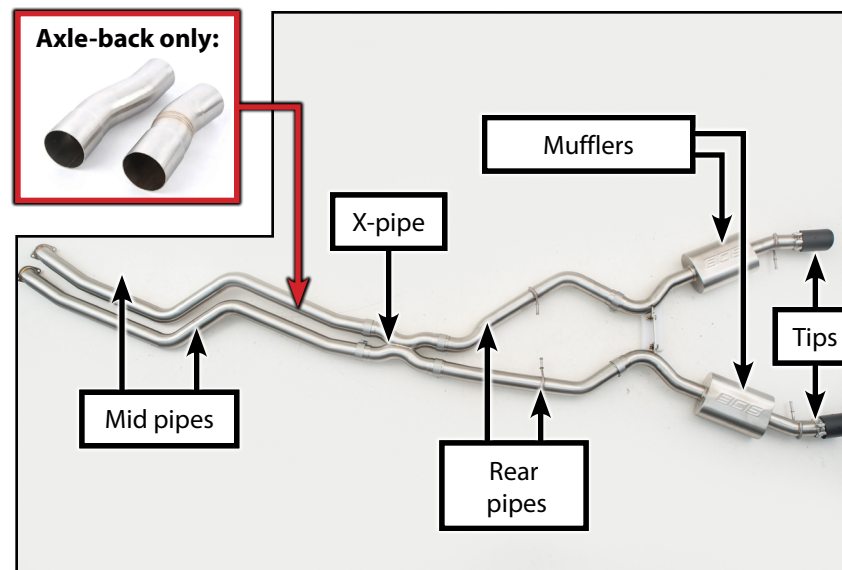
Please note that during this installation, you will be installing the exhaust from front to back **WITHOUT** tightening any of the clamps.



For axle-back systems only: Skip ahead to page 8.

Step 2:

Cat-back exhaust systems only: Clean the ends of the catalytic converter flanges with a suitable degreaser or brake cleaner. Replace the gaskets (arrows) with the new ones provided in the kit.



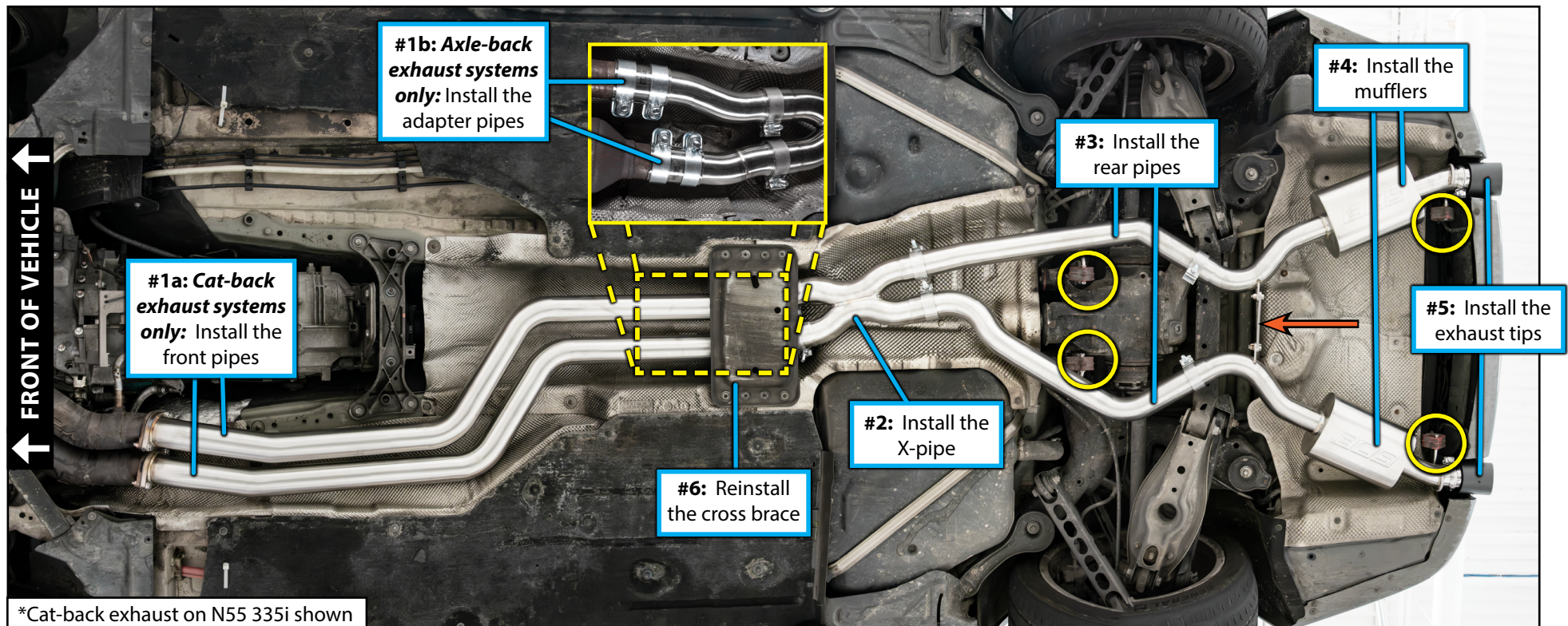
INSTALLING THE NEW EXHAUST SYSTEM

Step 3: 13mm, 15mm, 16mm, 18mm Sockets & Ratchet

Cat-back exhaust systems only: Clean the ends of the catalytic converter flanges with a suitable degreaser or brake cleaner.

Loosely install the exhaust system from front to back, then reconnect the hangers (circled in **YELLOW**). Install the logo plate (arrow).

Tighten all of the exhaust clamps until snug, but leave them loose enough to allow you to adjust the 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 10.



INSTALLING THE NEW EXHAUST SYSTEM

Step 4:

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

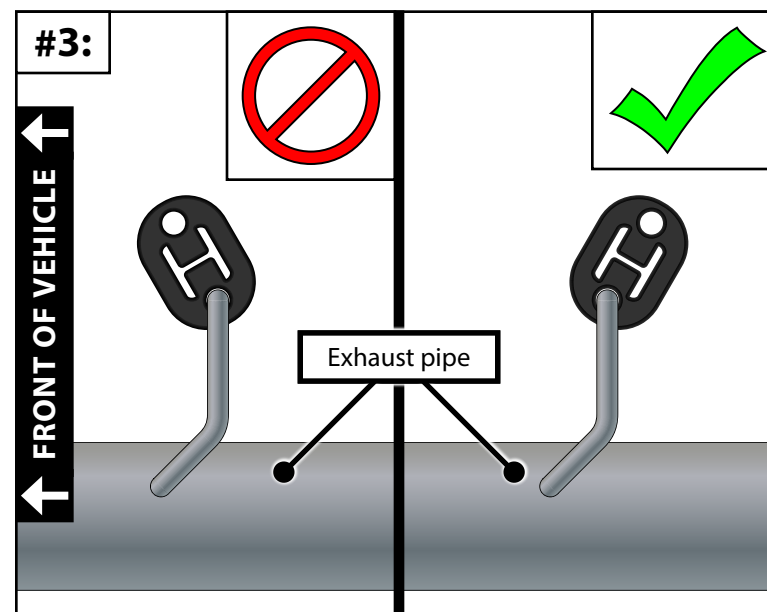
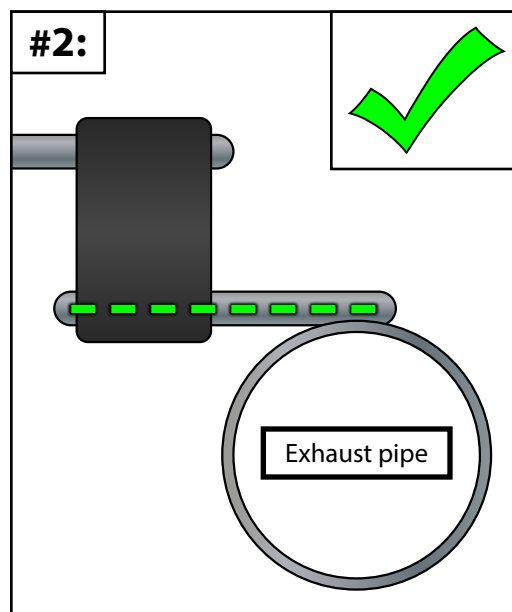
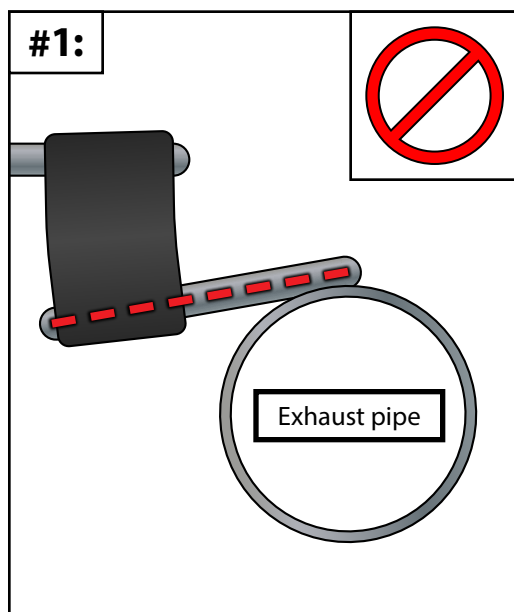
Finally, we want to ensure that the exhaust hangers are rotated at least slightly toward the front of the vehicle (**Photo #3 below**). The exhaust hangers should be inclined toward the front of the vehicle so that lower hole is approximately 10-15mm forward of the upper hole, this will allow the hangers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



13mm Socket, 15mm Socket, Ratchet & Torque Wrench

Ensure the rear pipes and logo plate (**Photo #1**) are sitting level from side to side as much as possible. Push upward on the exhaust system as you fully tighten each clamp from the front of the system to the back. Allow the exhaust to settle, then check again for clearance around all pipes. Center and level each of the exhaust tips inside the bumper cut outs (**Photo #2**), then torque the exhaust tip clamps to 19 Nm (14 Ft-lbs).

- ☐ Wipe any oil, grease, or fingerprints from the exhaust system.
- ☐ Recheck all fasteners after the vehicle has been driven 500 miles.

Congratulations, your installation is complete!



Your Exhaust System installation is complete!



These instructions are provided as a courtesy by ECS Tuning

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