



## BMW E30 325 Cat-Back Exhaust System Installation Guide

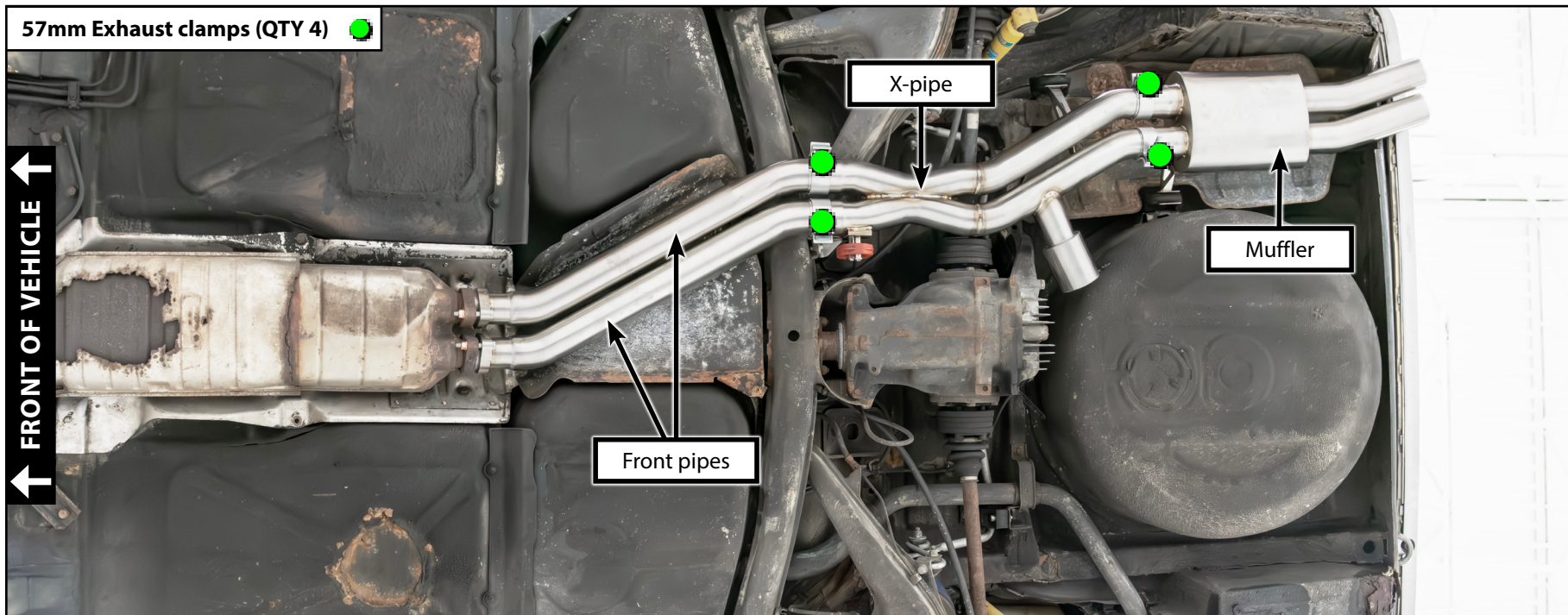


Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times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

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## 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

Turner Motorsport 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.

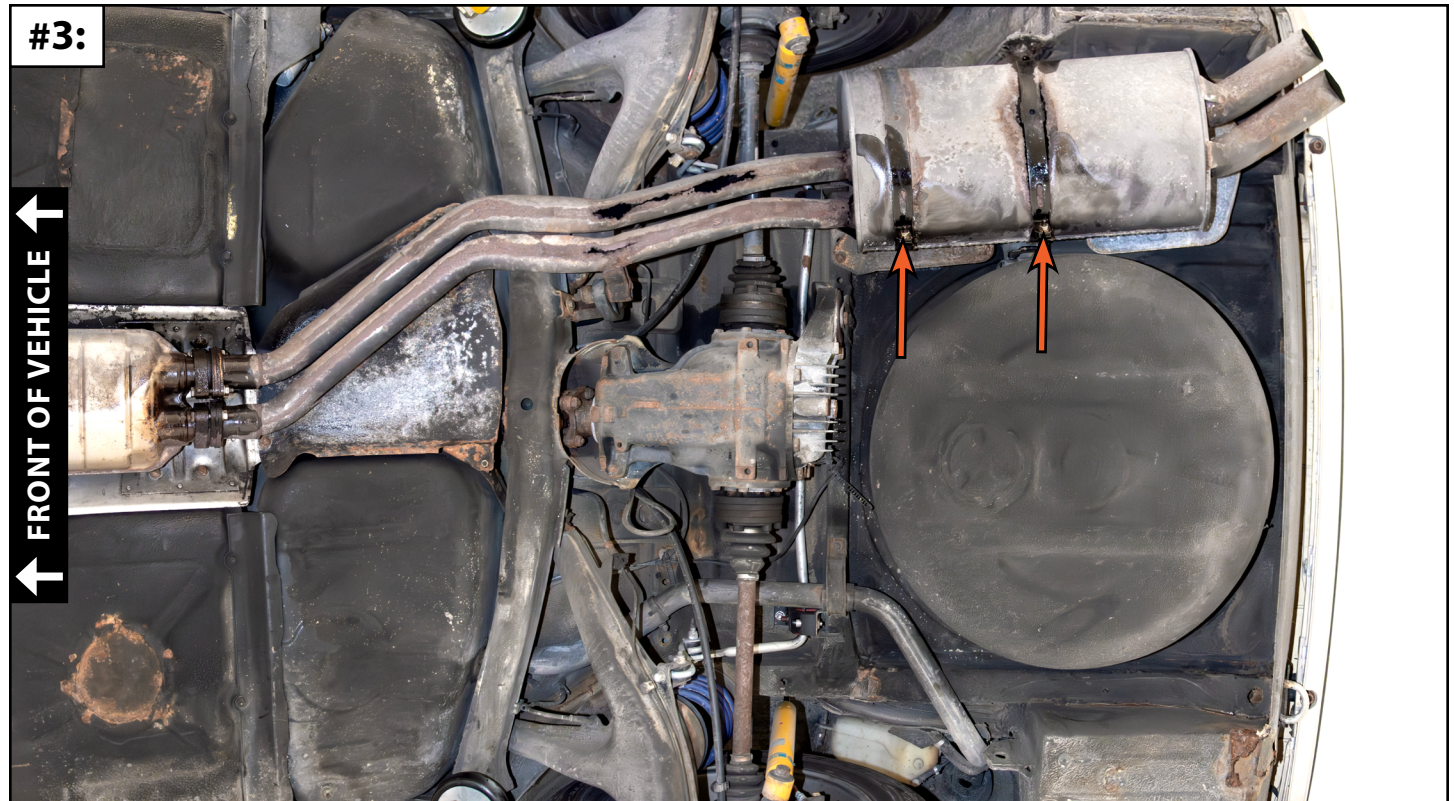
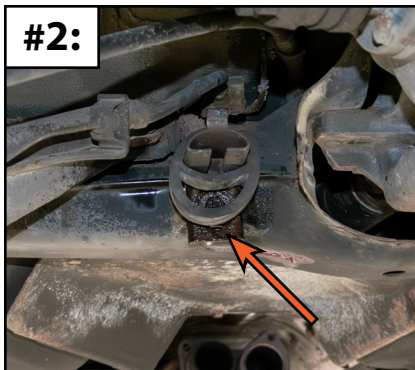
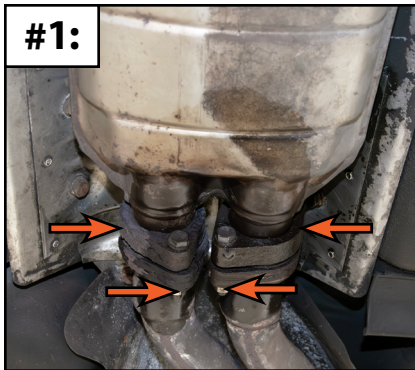
## REMOVING THE STOCK EXHAUST SYSTEM

### Step 1: 13mm Socket & Ratchet

Safely lift and support the vehicle, then soak the bolts and nuts (arrows in **photo #1**) that secure the muffler to the catalytic converter with penetrating oil and allow it to soak in before removing them.

Safely support the exhaust system from below, remove the 13mm bolt (arrow in **photo #2**) that secures the front exhaust hanger to the rear subframe.

Remove the 13mm nuts (arrows in **photo #3**) from the straps that secure the muffler. Carefully lower the entire system to the ground.

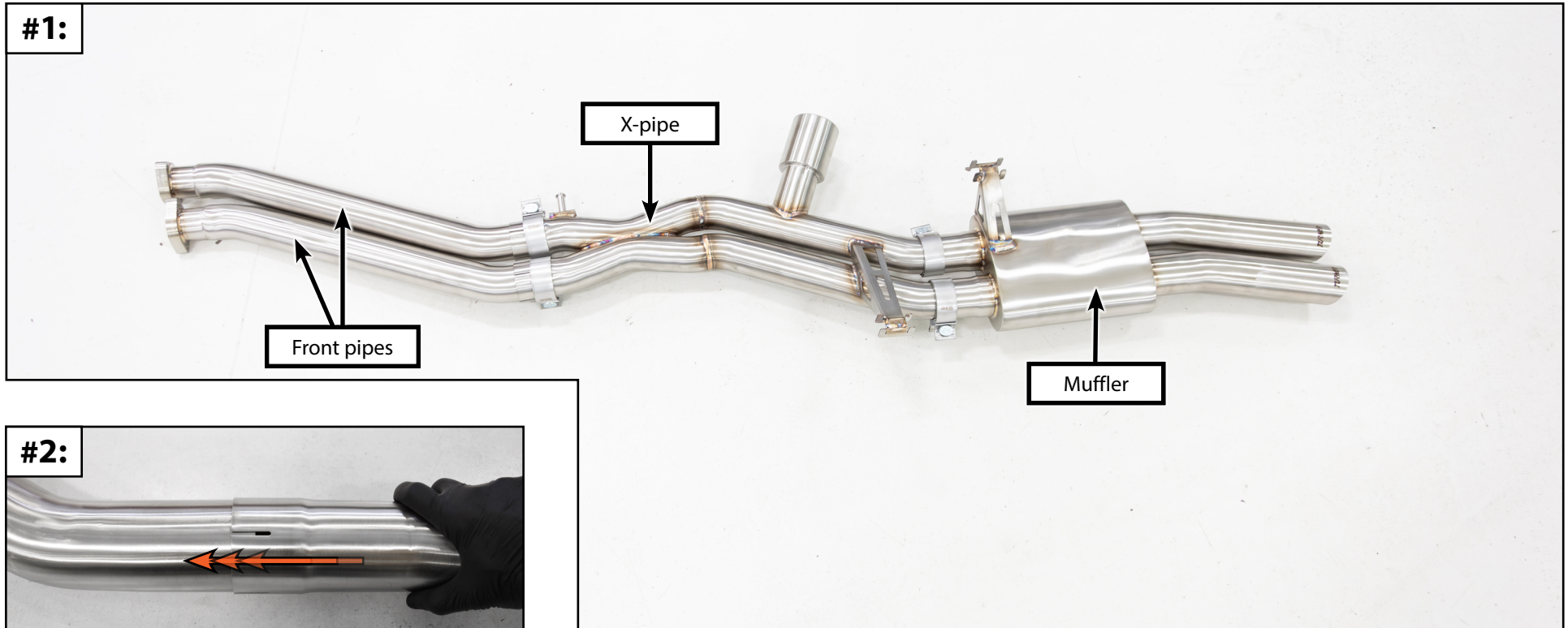


## INSTALLING THE NEW EXHAUST SYSTEM

### Step 1: Pipe Expander & 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**). Inspect all of the slip joints for any signs of damage during shipping. Test fit the pipes together at every joint to make sure they slide together easily (**photo #2**). If they do not slide together easily, use a pipe expander or gently tap on the ends of the pipes with a ball pein hammer to straighten them, then recheck fitment.

Please note that 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 adjust the system properly. Proceed to the next page once all of the slip joints slide together easily.



## INSTALLING THE NEW EXHAUST SYSTEM

### Step 2: 12mm Socket, 13mm Wrench & Ratchet

Install the provided exhaust gaskets between the flanges for the catalytic converter and the front pipes of the new exhaust system, then loosely install provided M8 bolts and nuts to secure the flanges together.



### Step 3: 13mm Socket & Ratchet

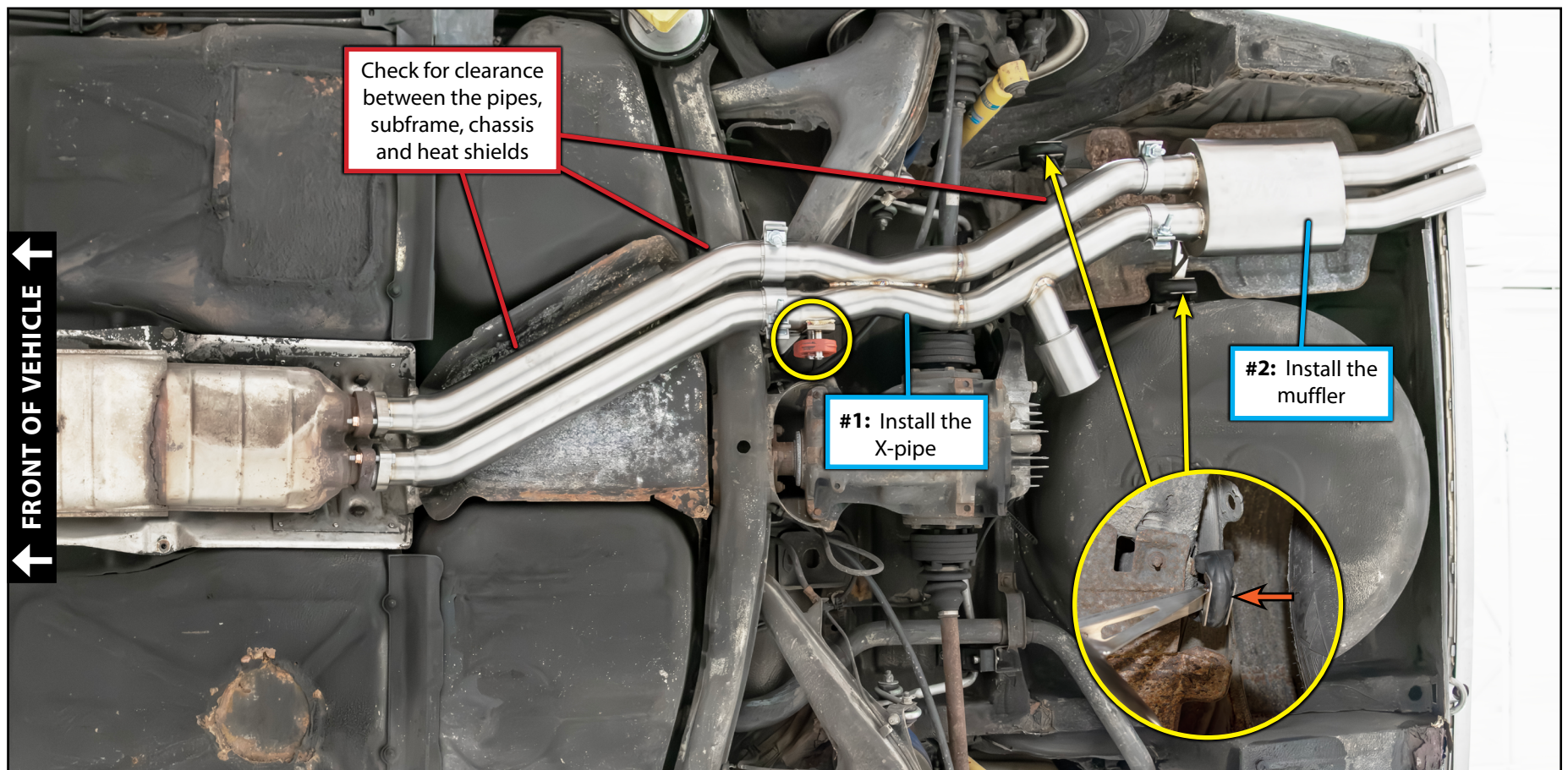
Install the provided hanger mount (arrow) in place of the OE hanger on the back of the subframe.



## INSTALLING THE NEW EXHAUST SYSTEM

### Step 4: 15mm Sockets, Ratchet

Install the rest of the exhaust system in the order shown in **photo #1** below. Install the provided rubber hanger (circled in **YELLOW**) between the X-pipe and the new hanger mount, then install the new exhaust system onto the OE muffler hangers (arrow in inset photo), 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 but **DO NOT** fully tighten any of the clamps until **AFTER** you've performed all of the steps up through page 9. 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 5: 12mm, 13mm & 15mm Sockets, Ratchet

Check the hanger rod on the X-pipe to ensure that it is sitting level side-to-side (**photo #1 & photo #2 below**).

Next, we want to ensure that the exhaust hanger on the X-pipe is 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.

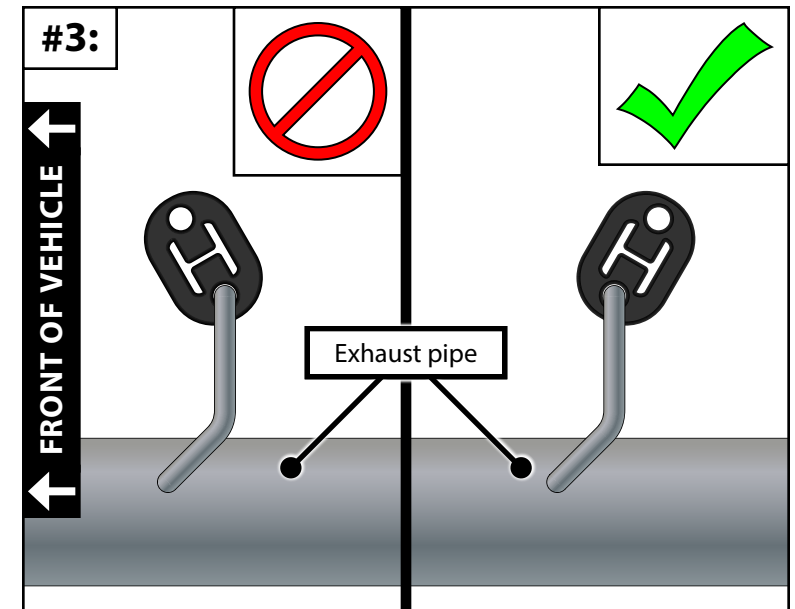
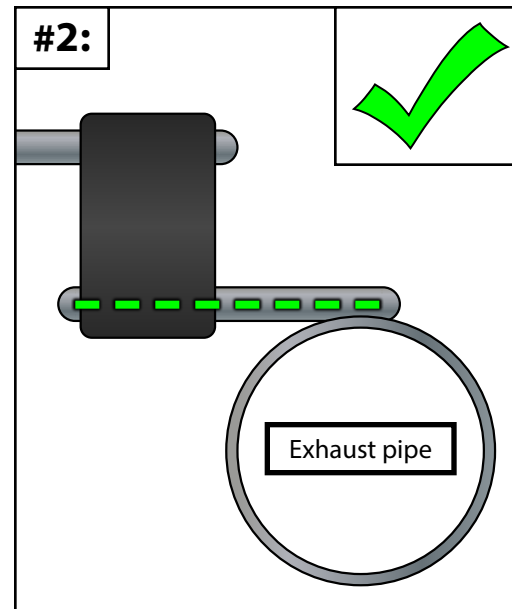
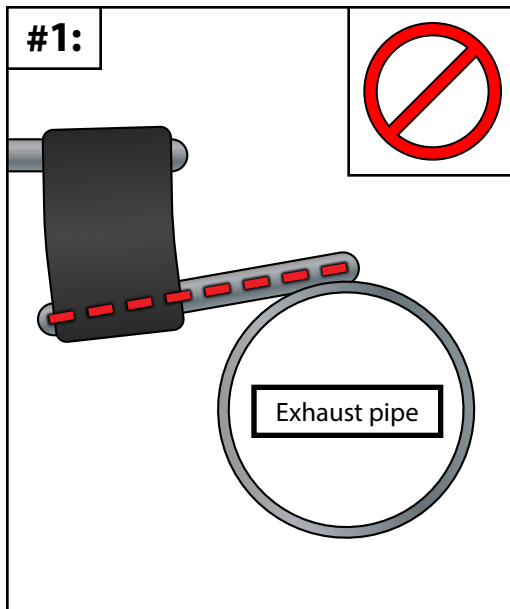


NOTE

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. We definitely don't want the hangers to be pitched rearward and stretching **BEFORE** the system heats up and expands.



**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!



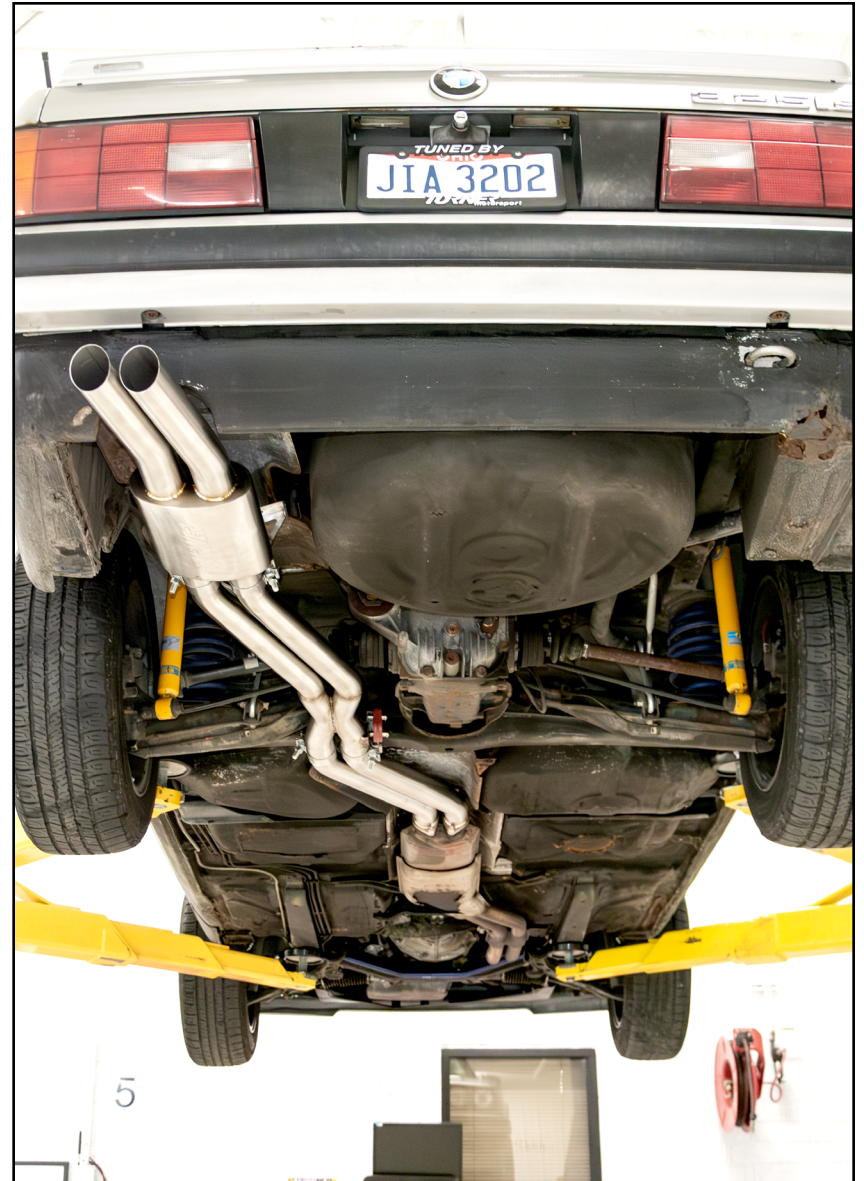
## INSTALLING THE NEW EXHAUST SYSTEM

Step 6: 12mm, 13mm & 15mm Sockets, Ratchet

Center and level the exhaust tips inside the bumper cutout. Once you are satisfied with the adjustment of the system, fully tighten down the clamps and hardware. Check again for clearance around all pipes

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

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



## Your Exhaust System installation is complete!



### **These instructions are provided as a courtesy by Turner Motorsport**

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