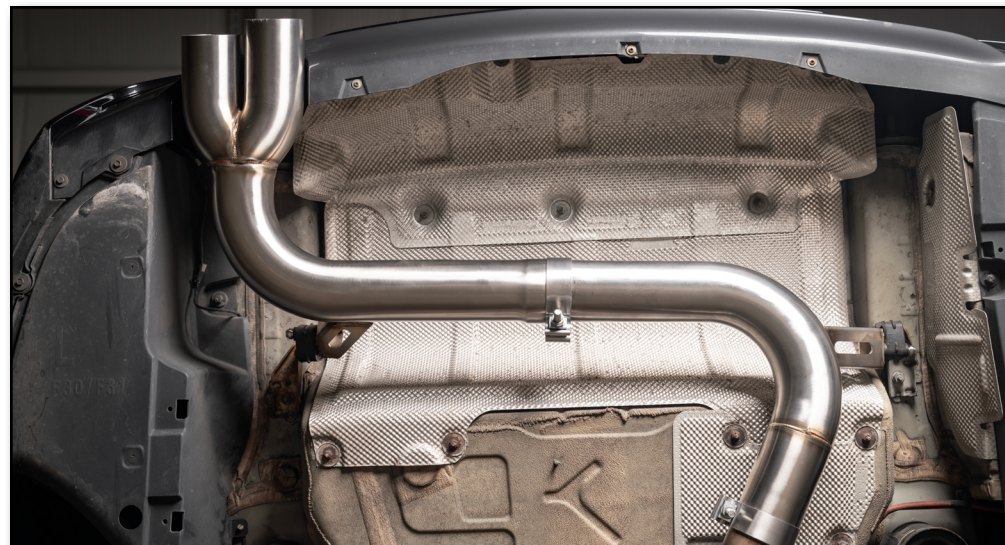




**BMW F3x N20 Muffler Delete Kit**  
**Installation Instructions - [Click HERE to Shop](#)**



**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.

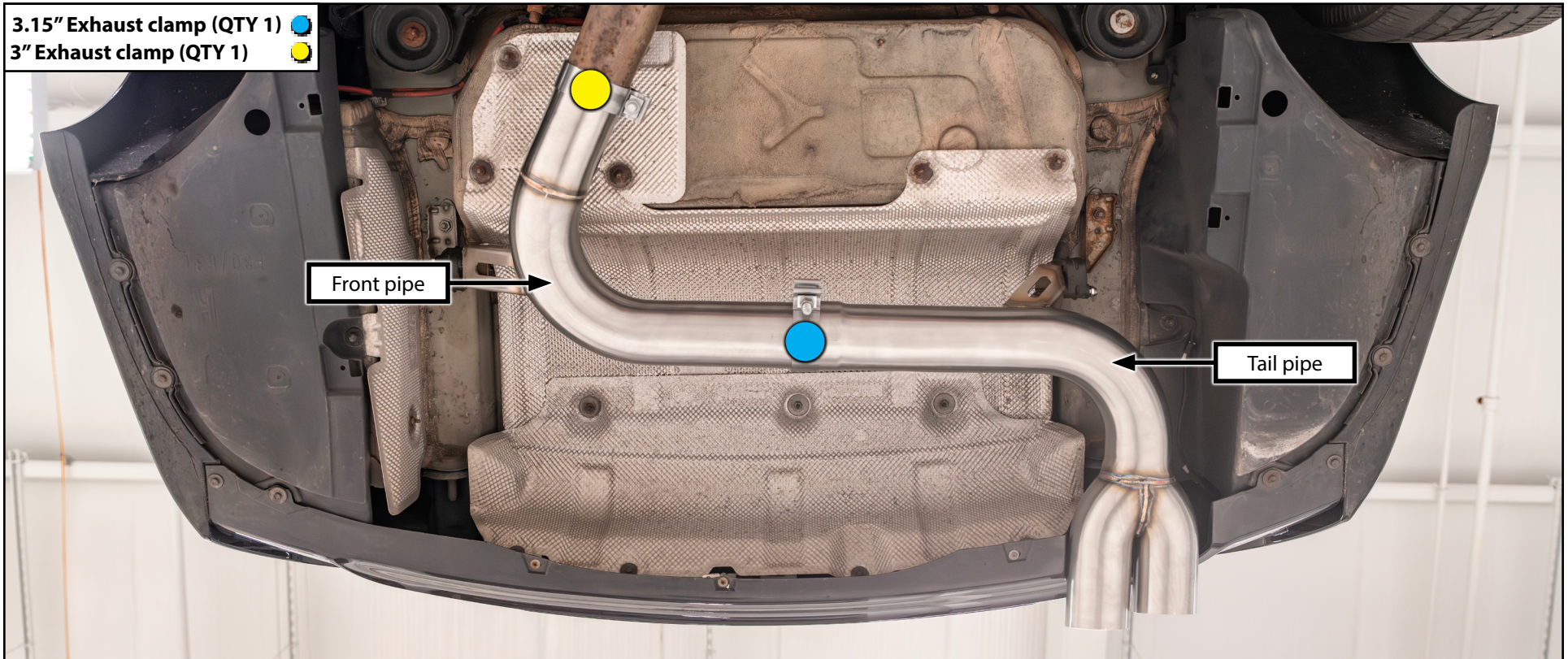


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## KIT CONTENTS

3.15" Exhaust clamp (QTY 1)   
 3" Exhaust clamp (QTY 1) 



## 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.



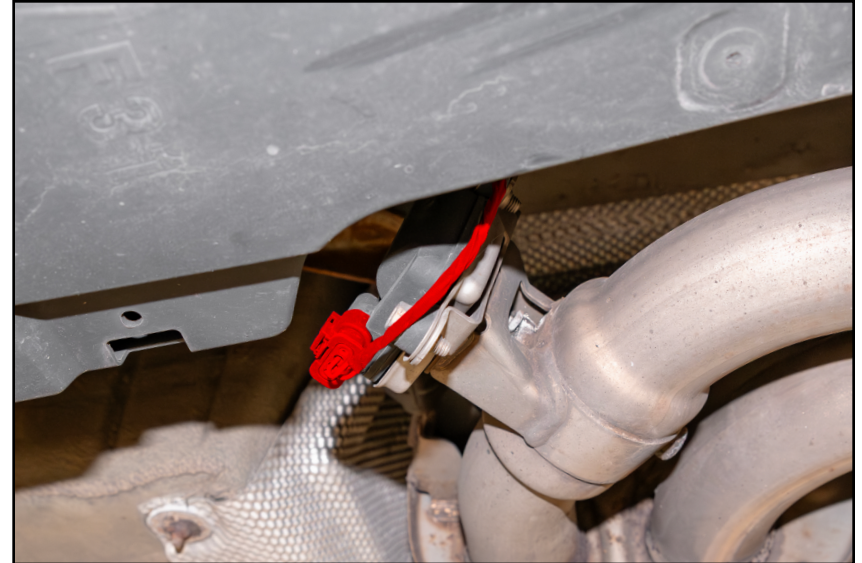
**NEVER** get underneath a vehicle that is supported only by a jack, and **ALWAYS** make sure that the vehicle is securely supported on jack stands.



## MUFFLER DELETE KIT INSTALLATION

### Step 1:

Disconnect the connector (highlighted in **RED**) from the exhaust valve controller and tuck the harness safely out of the way.



### Step 2: Marker -OR- Masking Tape

Locate the faint OE dimple (arrow) on the exhaust pipe, just upstream of the muffler, and make a mark all the way around the pipe at this point.





## MUFFLER DELETE KIT INSTALLATION

### Step 3: Exhaust Pipe Cutter Tool, Metal File



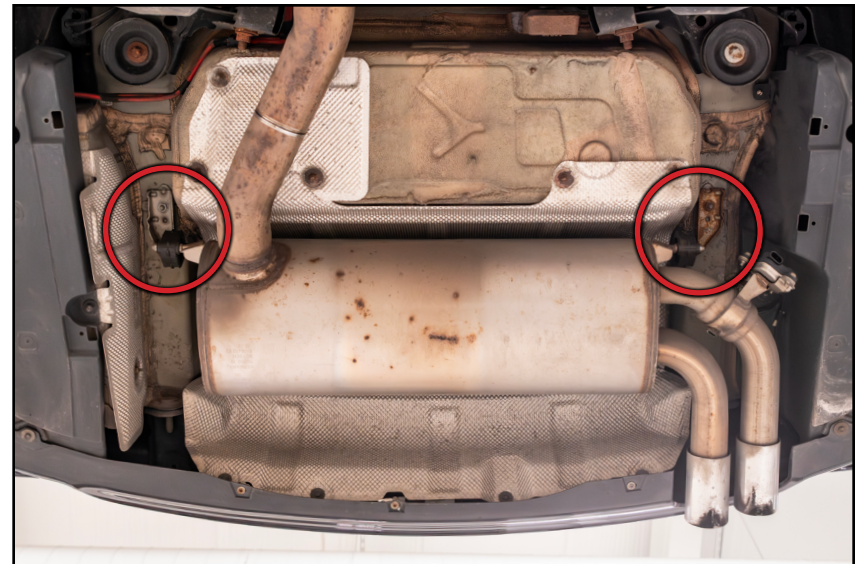
It is ***absolutely imperative*** that you take your time here and double or triple check your mark before you cut anything. There is no turning back once the pipe has been cut, so measure twice, cut once!

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, then remove any burrs from the exhaust pipe, this will ensure a proper fit and seal once the new pipes are installed.



### Step 4: 13mm Socket & Ratchet

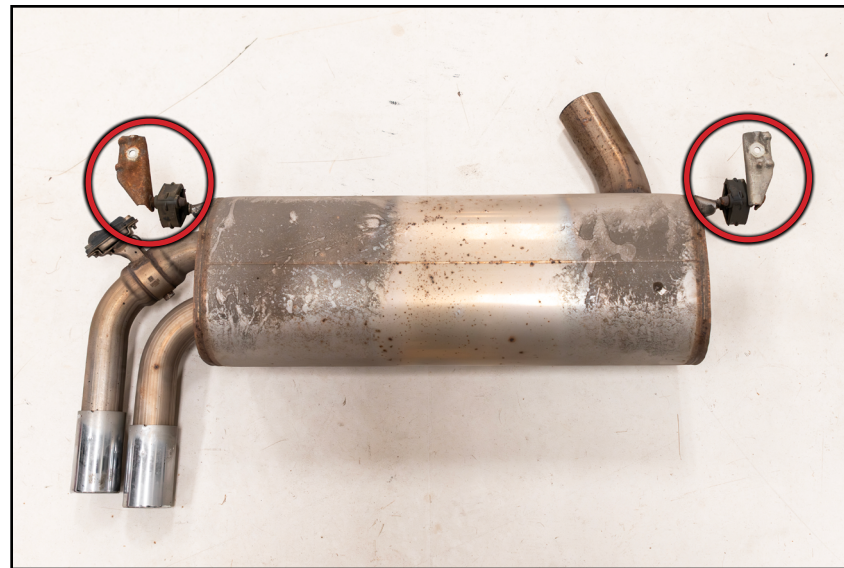
Support the muffler from below, then remove the nuts to disconnect the exhaust hangers (circled in **RED**) from the vehicle and carefully remove the muffler.



## MUFFLER DELETE KIT INSTALLATION

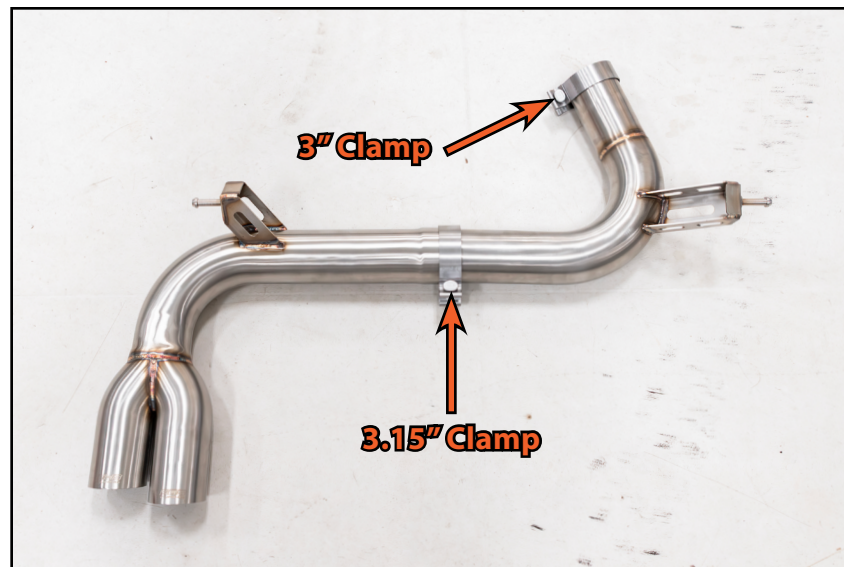
### Step 5: Exhaust Hanger Removal Pliers

Remove the hangers (circled in **RED**) from the stock muffler and set them aside.



### Step 6: Pipe Expander Tool, Ball Pein Hammer

Unpack the new muffler delete kit and inspect the slip joints for any signs of damage during shipping. Assemble the pipes and clamps (arrows), ensuring the pipes 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.

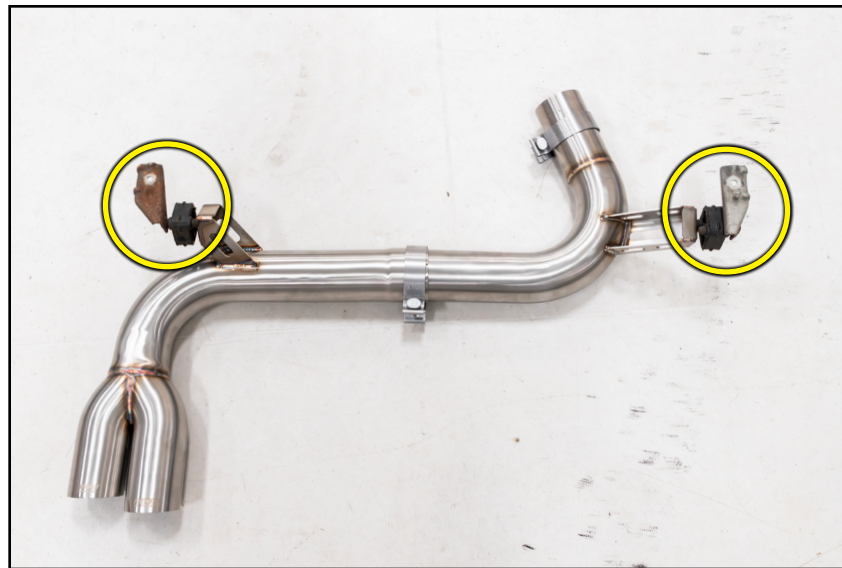




## MUFFLER DELETE KIT INSTALLATION

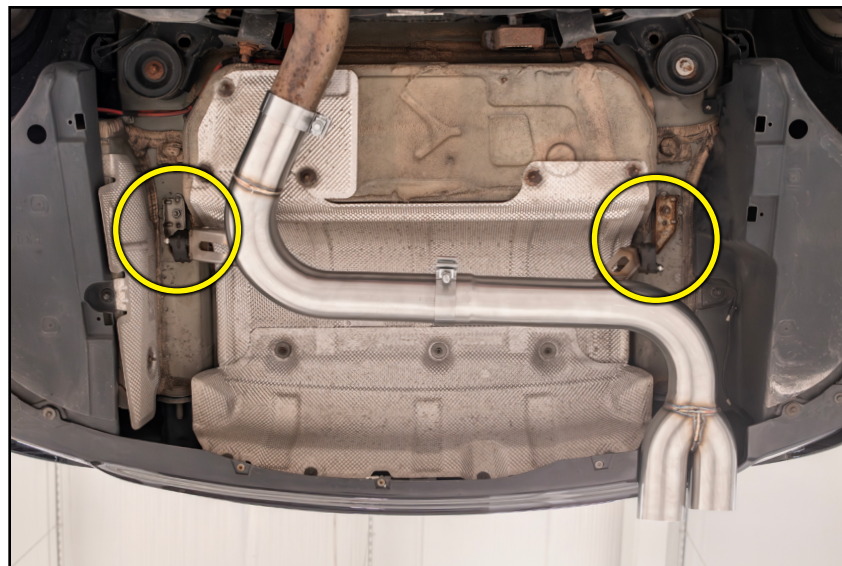
### Step 7:

Transfer the muffler hangers (circled in **YELLOW**) to the new pipes as shown, orienting them exactly as they were before.



### Step 8: 13mm Socket & Ratchet

Lift the new muffler delete pipes into place and secure the hangers (circled in **YELLOW**) to the vehicle. Adjust the pipes to ensure proper fitment and clearance, then lightly snug the clamps.



## MUFFLER DELETE KIT INSTALLATION

### Step 9: 15mm Socket & Ratchet

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

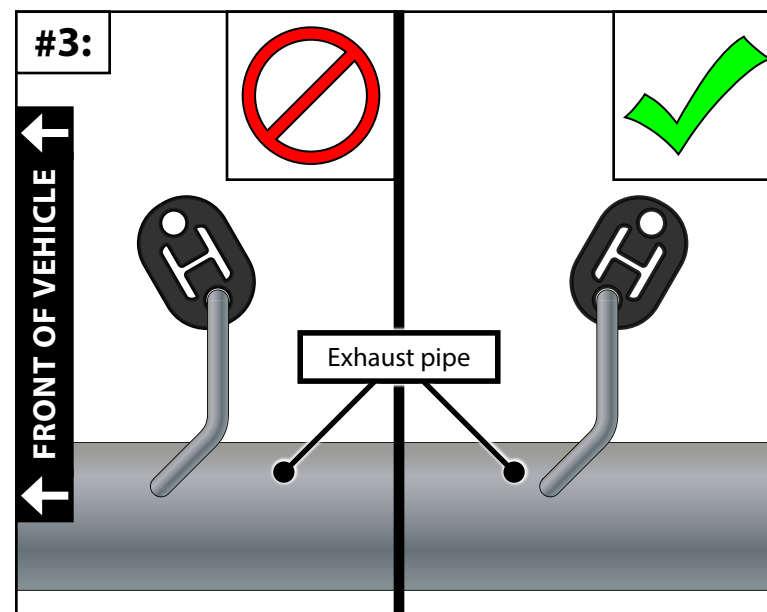
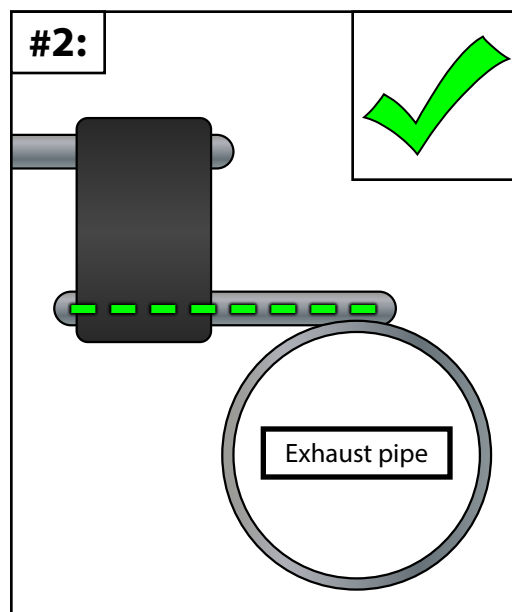
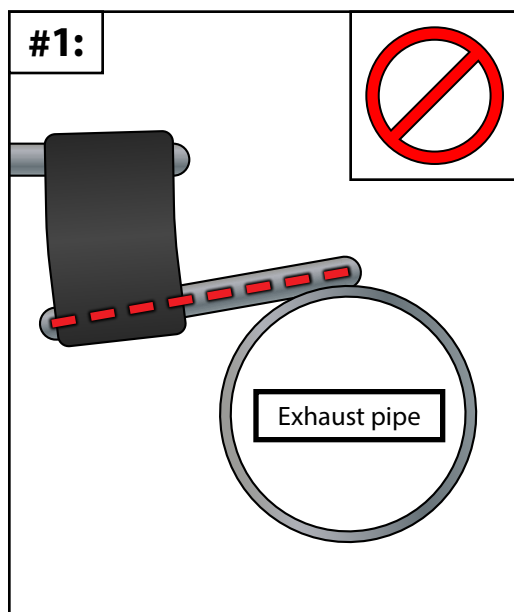
Finally, we want to ensure that the exhaust hangers are rotated at least slightly toward the front of the vehicle (**Photo #3 below**). The exhaust hangers should be inclined toward the front of the vehicle so that lower hole is approximately 10-15mm forward of the upper hole, this will allow the hangers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



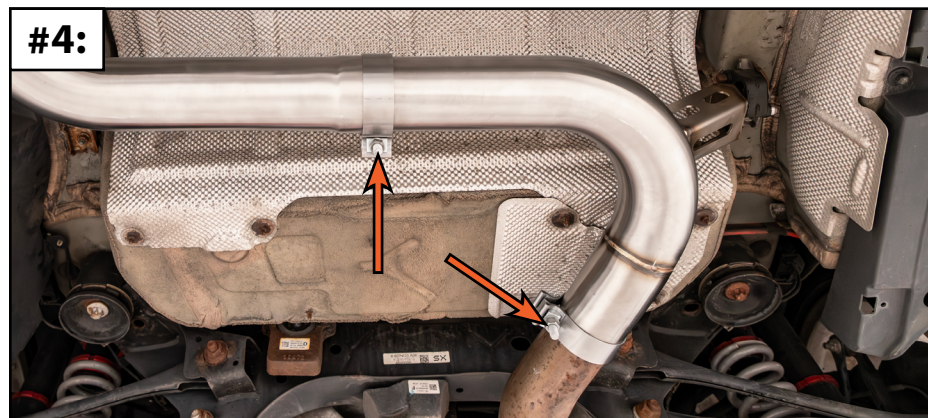
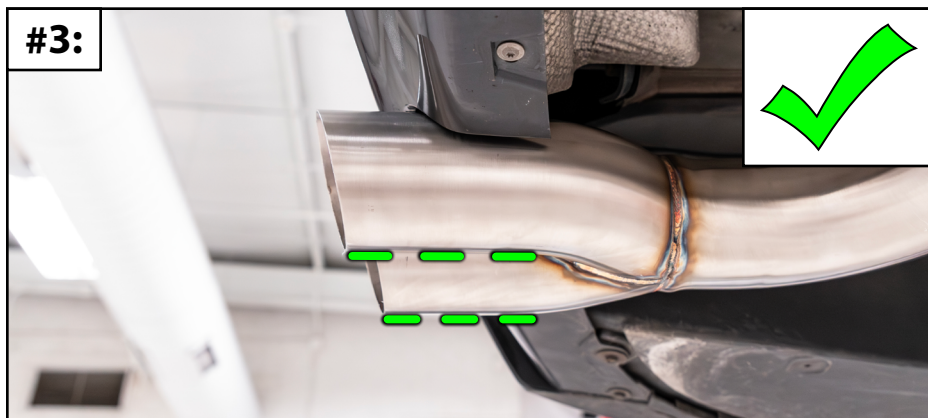


## MUFFLER DELETE KIT INSTALLATION

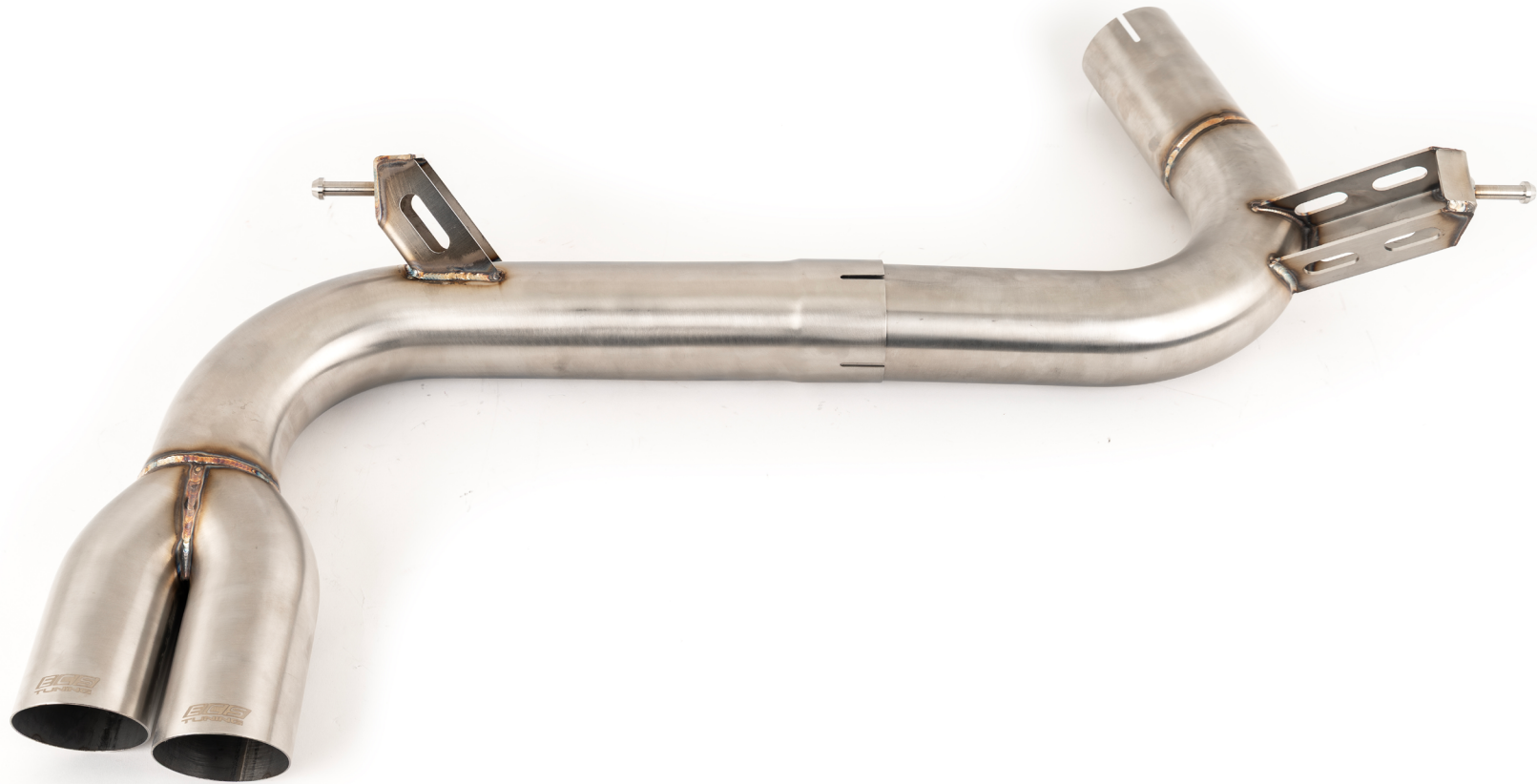
### Step 10: 15mm Socket & Ratchet

Adjust the front pipe until the pipes are level side-to-side (**Photo #1**) and the front pipe has adequate clearance for the chassis and heat shields. Adjust the tail pipe until the exhaust tips are centered in the exhaust cutout in the bumper and level front-to-back (**Photos #2 & #3**), then tighten the clamps (arrows in **Photo #4**). Check again for clearance around all pipes, re-adjusting as needed.

***Congratulations, Your installation is complete!***



**Your Muffler Delete Kit installation is complete!**



**These instructions are provided as a courtesy by ECS Tuning**

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