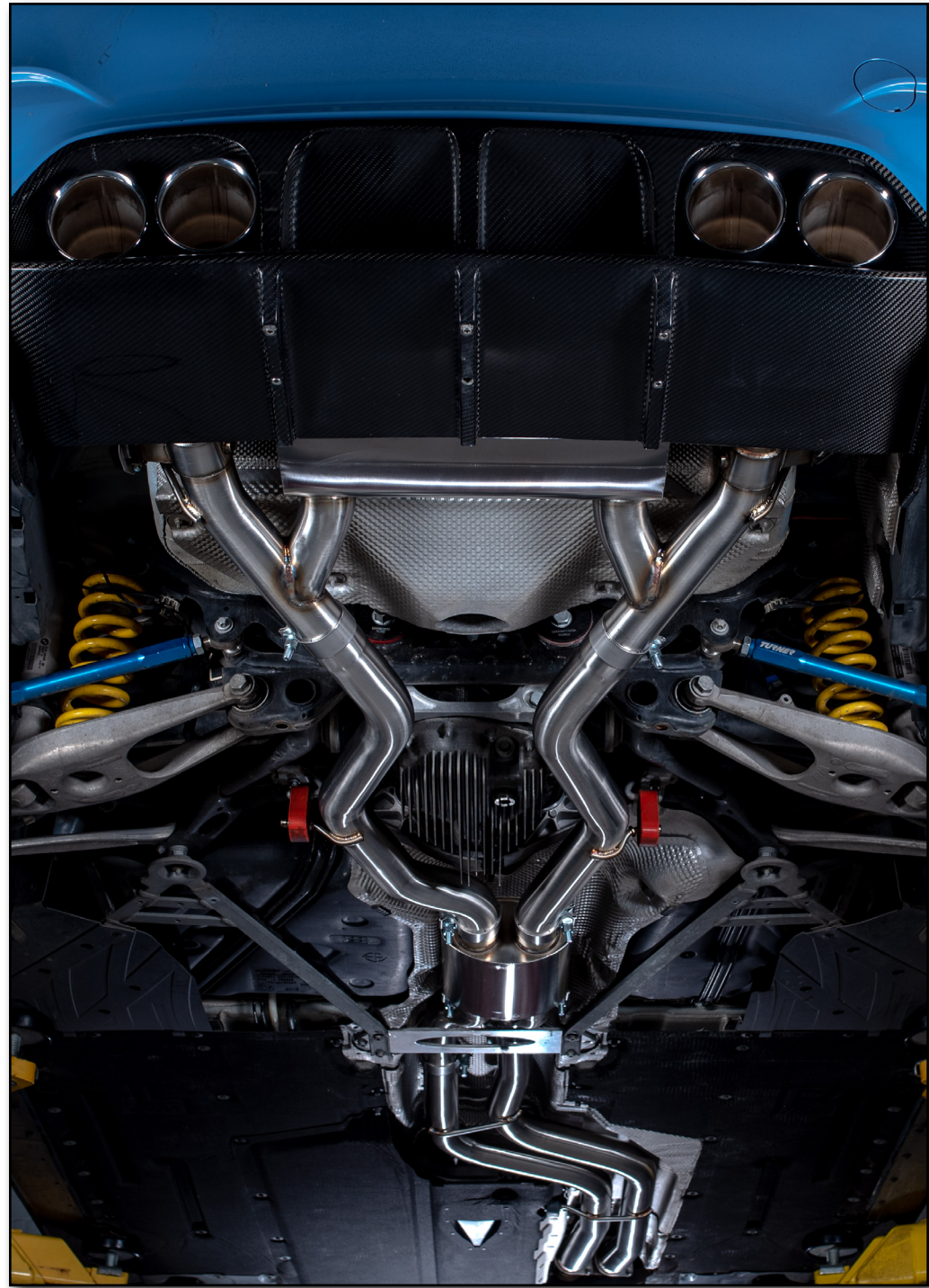




BMW F8x M3/M4 Valved Cat-Back Exhaust System Installation Guide



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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KIT CONTENTS



Valved Muffler
(QTY 1)



Rear Pipes
(QTY 2)



Resonator
(QTY 1)



Resonator Pipes
(QTY 2)



Mid Pipes
(QTY 1)



Turner Exhaust Tip
(QTY 4)



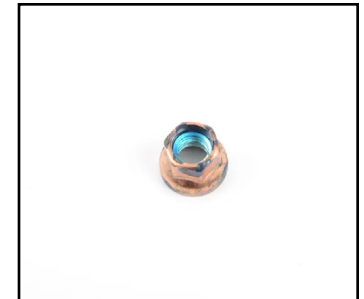
2.5" Clamp
(QTY 8)



Exhaust Valve Adapter
(QTY 2)



Downpipe Gasket
(QTY 2)



Downpipe Nut
(QTY 4)

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:

Disconnect the wiring harness (highlighted in **RED**) from the exhaust valve controller on each side of the muffler.



Step 2:

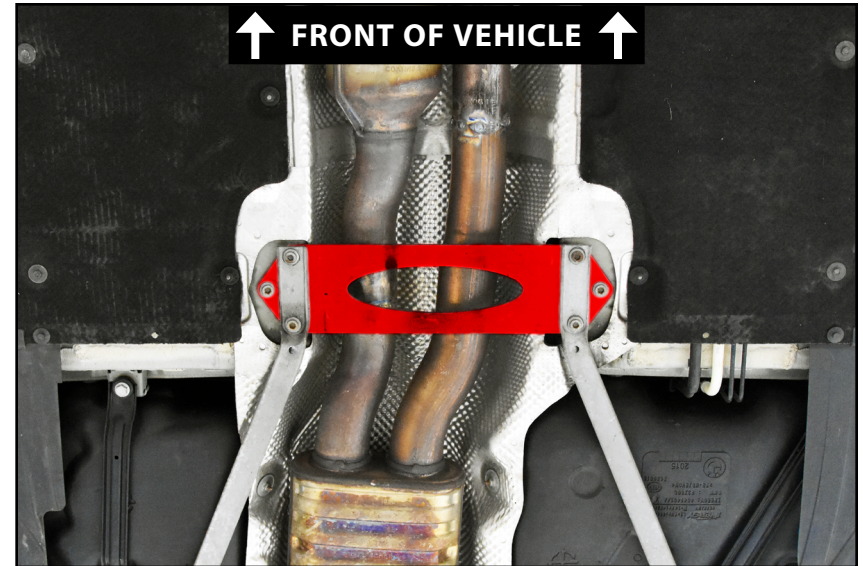
The exhaust system is very heavy and we will be removing it in one piece. Before proceeding with removal, support both ends of the exhaust as shown to prevent it from falling and causing damage or injury.



REMOVING THE STOCK EXHAUST SYSTEM

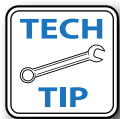
Step 3: T40 Torx

Remove the six bolts (arrows) then slide the tunnel brace (highlighted in **RED**) forward to remove it from the vehicle.

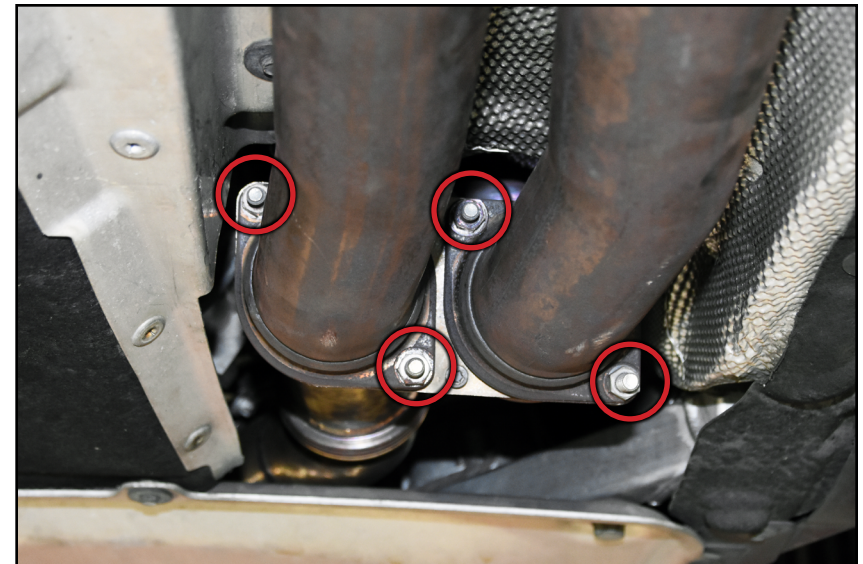


Step 4: 13mm Socket & Ratchet

Loosen and remove the four nuts (circled in **RED**) which secure the exhaust system to the downpipes.



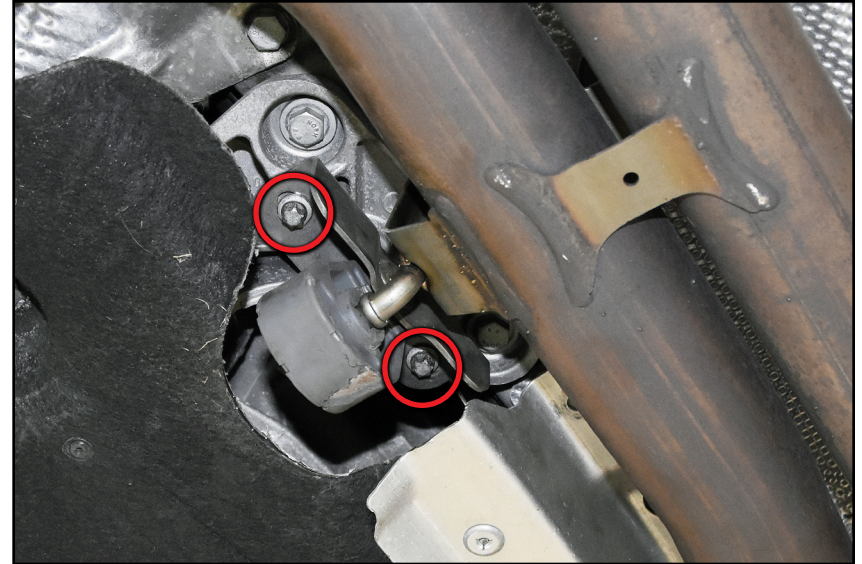
Spray the nuts with penetrating oil and allow the oil to soak in for at least 30 minutes before attempting to remove them.



REMOVING THE STOCK EXHAUST SYSTEM

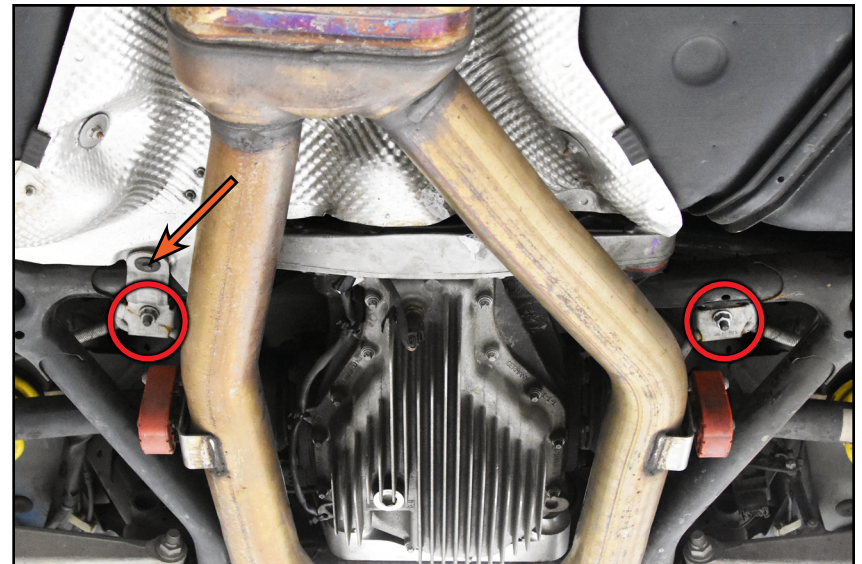
Step 5: 10mm E-Torx

Loosen and remove the two bolts (circled in **RED**) which secure the frontmost exhaust hanger to the vehicle.



Step 6: 8mm, 13mm Socket & Ratchet

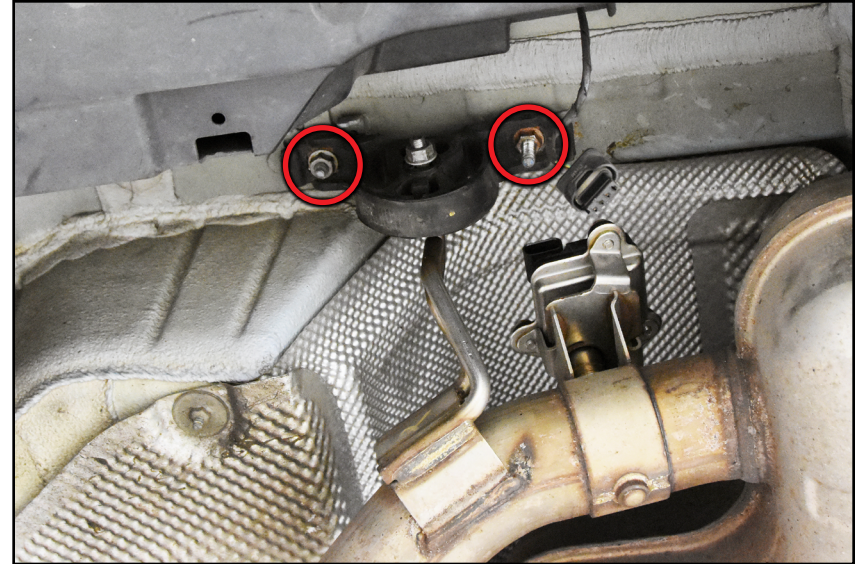
Remove the 8mm screw (arrow), then remove the two nuts (circled in **RED**) which secure the two middle exhaust hangers to the vehicle.



REMOVING THE STOCK EXHAUST SYSTEM

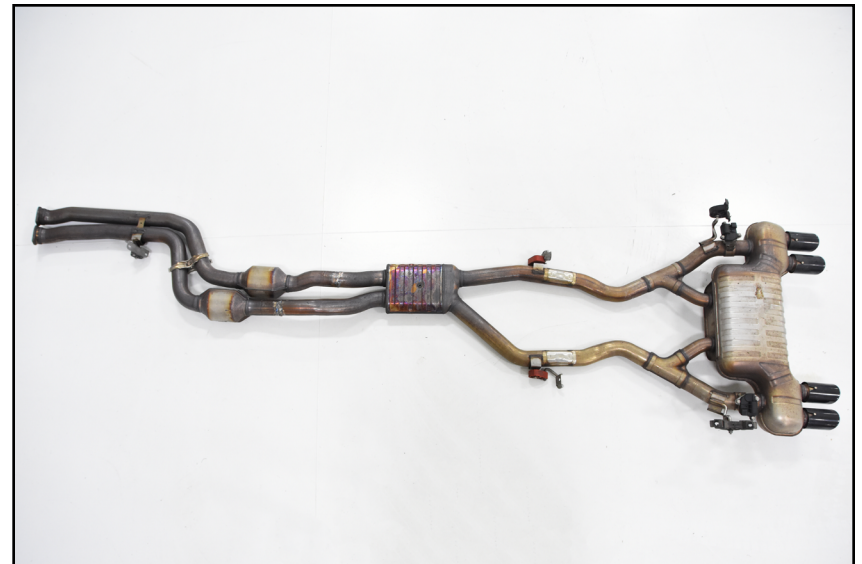
Step 7: 13mm Socket & Ratchet

Ensure the exhaust is properly supported from below, then loosen and remove the two nuts (circled in **RED**) which secure the muffler hanger to the vehicle on either side.



Step 8:

With the help of a friend, carefully pull the exhaust system off of the downpipe studs and lower it down to the ground.



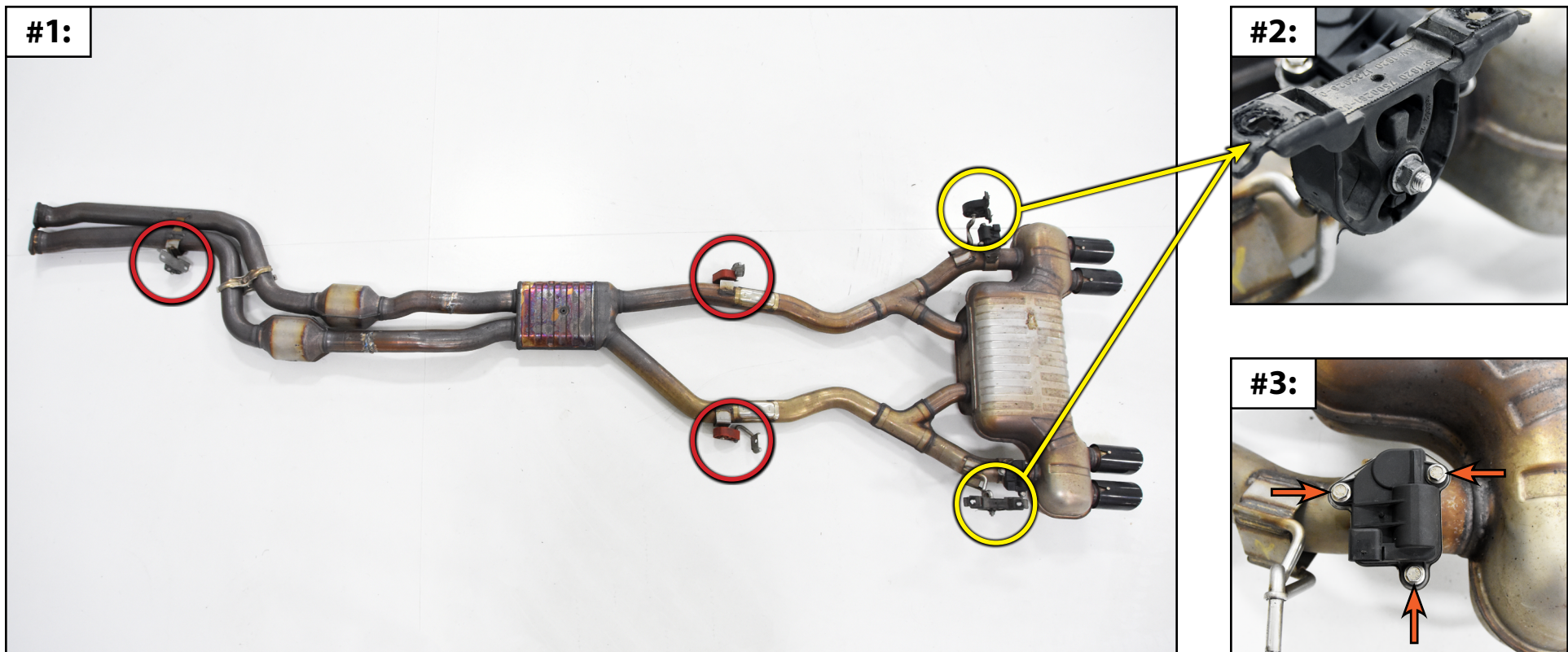
REMOVING THE STOCK EXHAUST SYSTEM

Step 9: Exhaust Hanger Removal Pliers, 10mm, 13mm Socket & Ratchet

#1: Remove the three frontmost exhaust hangers (circled in **RED** in photo #1) from the stock exhaust and set them aside.

#2: Loosen and remove the nut which secures each muffler hanger (circled in **YELLOW** in photo #1) to the muffler, then slide them off and set them aside.

#3: Loosen and remove the three bolts (arrows in photo #3) which secure each valve controller to the stock exhaust valves.



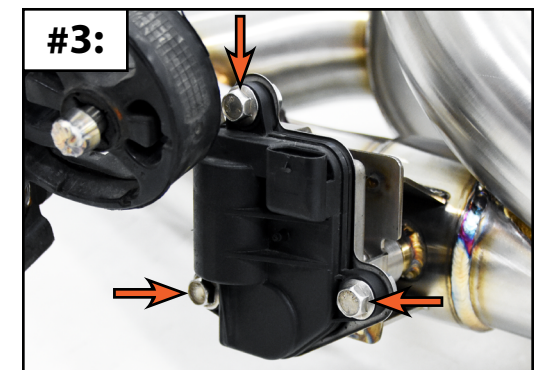
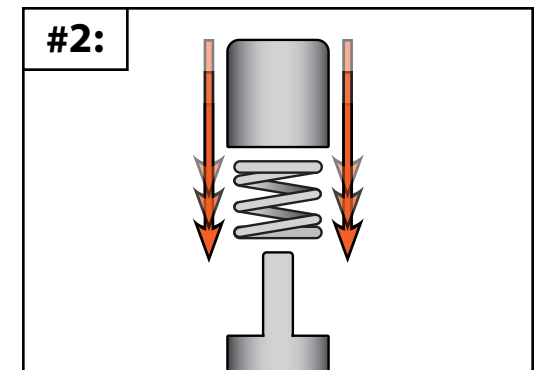
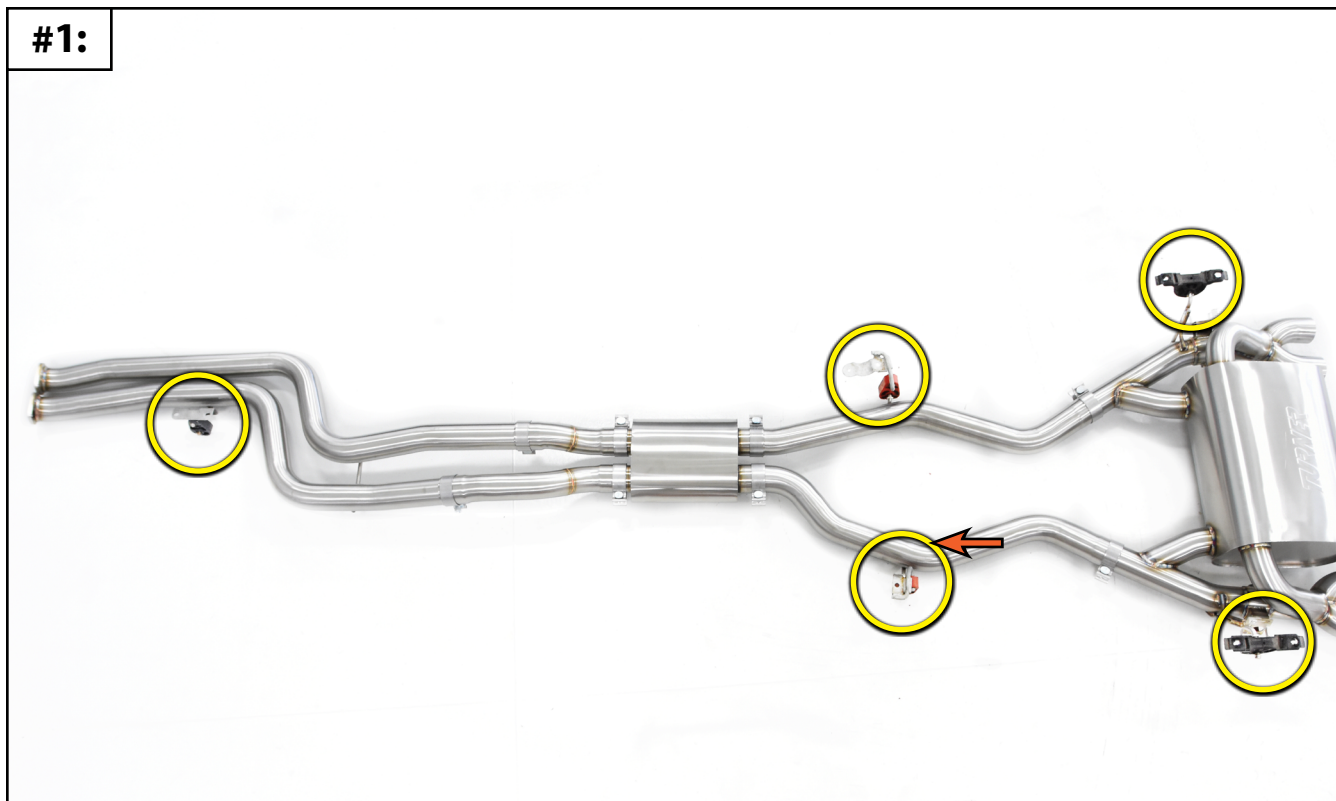
INSTALLING THE NEW VALVED EXHAUST SYSTEM

Step 1: 10mm Wrench, 10mm Socket & Ratchet

#1: 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 joint to make sure they slide together easily, then transfer the exhaust hangers (circled in **YELLOW** in photo #1) over to the new system.

#2: Install the provided exhaust valve adapters and springs onto the valves on the new muffler as shown (photo #2).

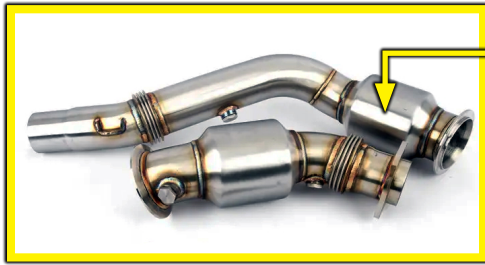
#3: Transfer the valve controllers over to the new muffler valves using the provided hardware (arrows in photo #3).



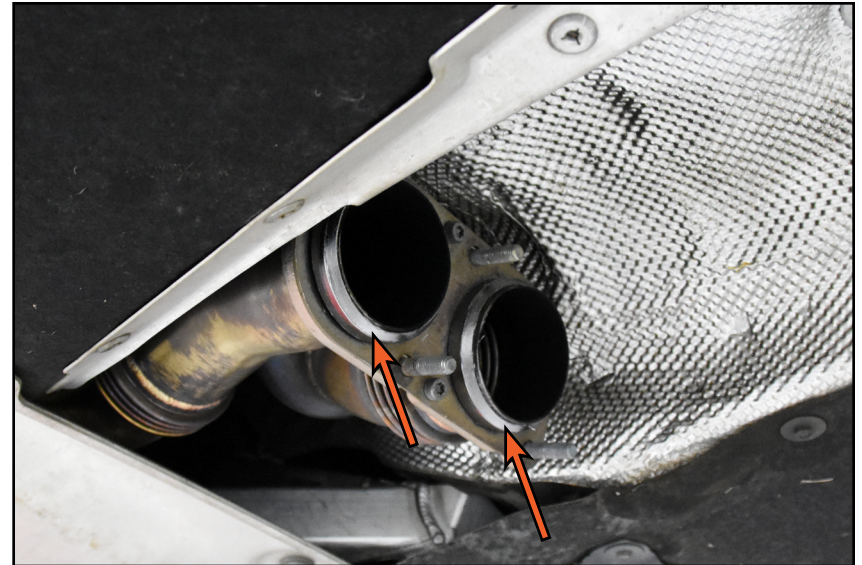
INSTALLING THE NEW VALVED EXHAUST SYSTEM

Step 2: Angled Pick

Replace the downpipe gaskets (arrows) with the ones provided in the kit.

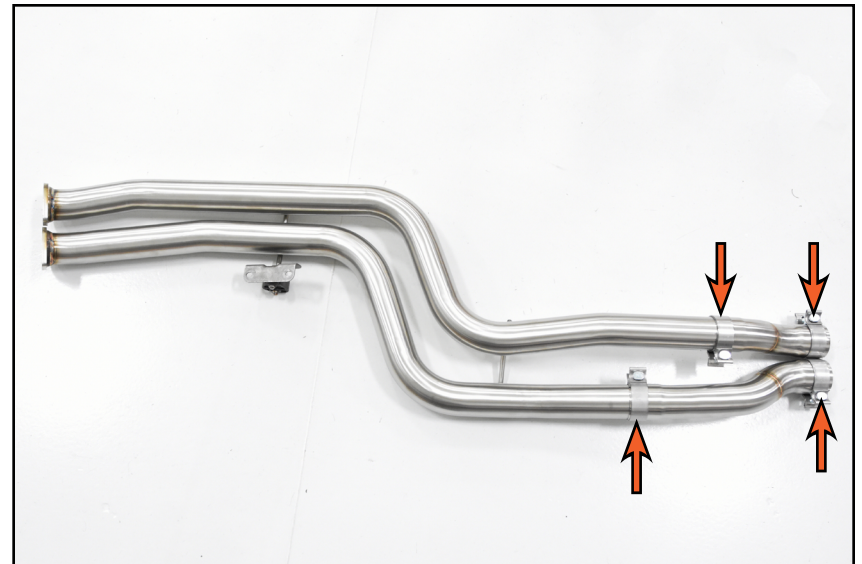


Also available:
Turner S55 High Flow
Catted Downpipes
([Click HERE to Shop](#))



Step 3:

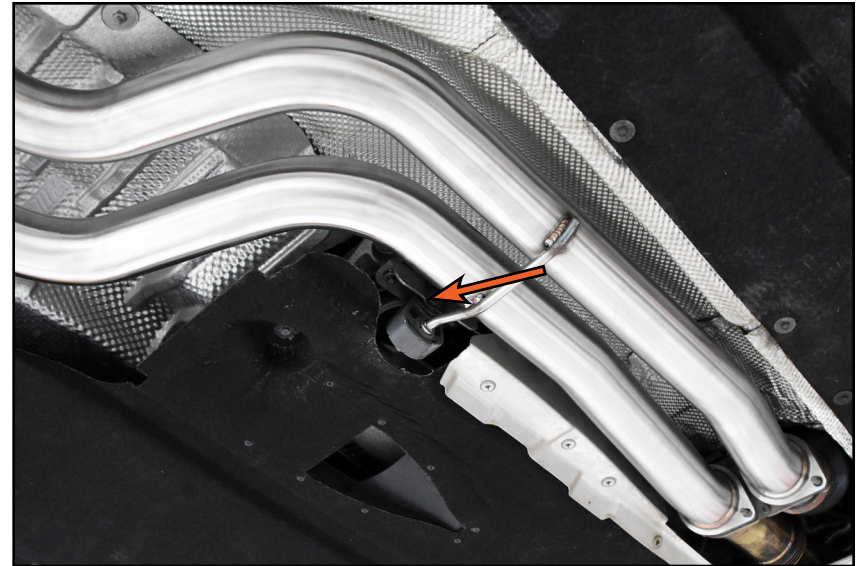
Slide the resonator pipes onto the mid pipes as shown, then slide four of the provided clamps (arrows) into place as shown.



INSTALLING THE NEW VALVED EXHAUST SYSTEM

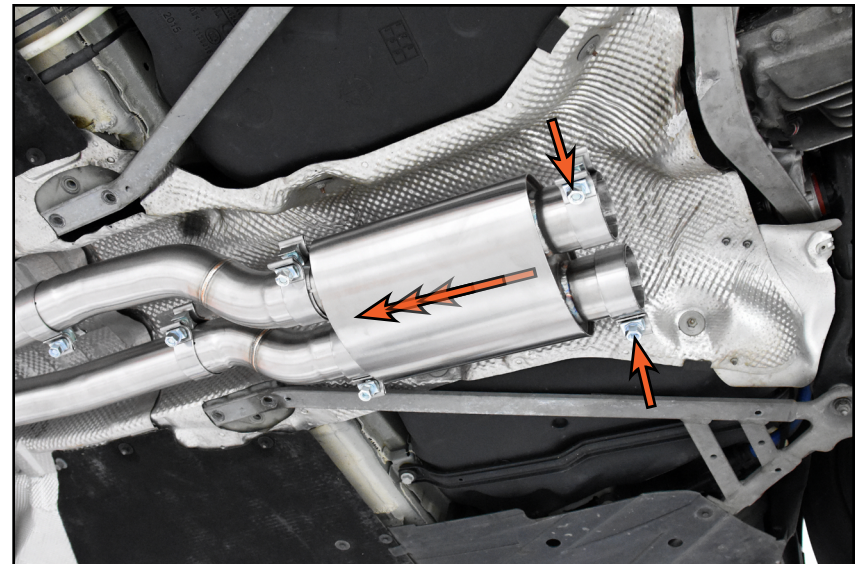
Step 4: 10mm E-Torx, 13mm Socket & Torque Wrench

Lift the new mid pipes into place, slide them onto the downpipe studs, then reinstall the two bolts to secure the hanger (arrow) to the vehicle. Torque the hanger bolts to 28 Nm (21 Ft-lbs) then install the provided downpipe nuts and torque them to 19 Nm (14 Ft-lbs).



Step 5:

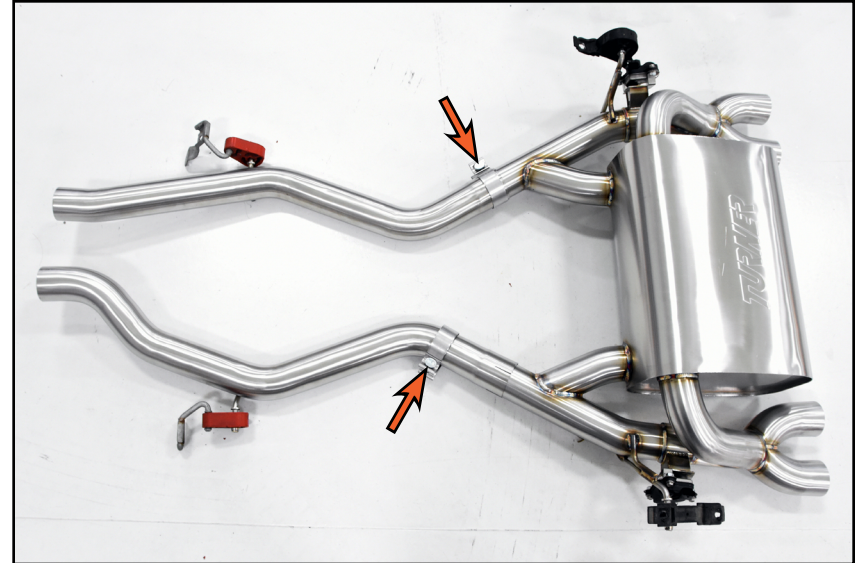
Slide two of the provided clamps (arrows) onto the resonator then slide it onto the pipes as shown.



INSTALLING THE NEW VALVED EXHAUST SYSTEM

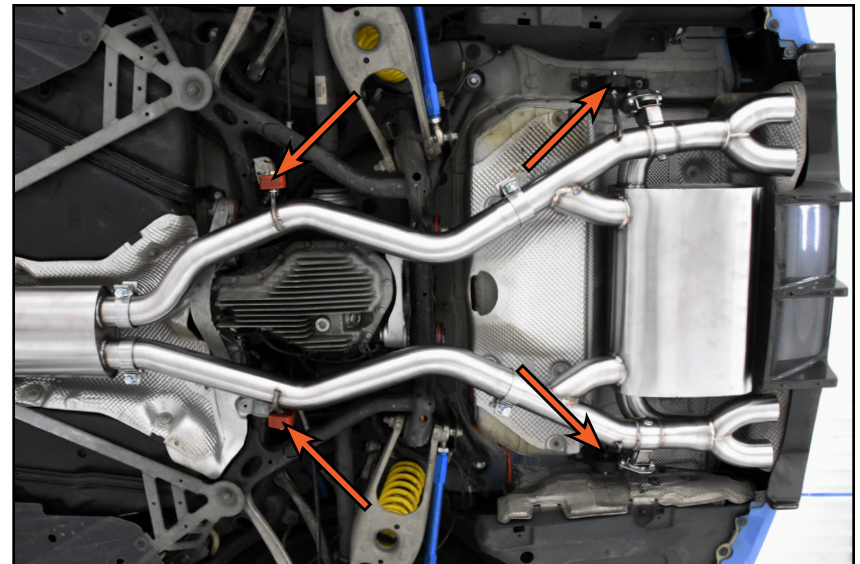
Step 6:

Slide the two remaining clamps (arrows) onto the rear pipes, then slide the pipes onto the muffler as shown.



Step 7: 13mm Socket & Torque Wrench

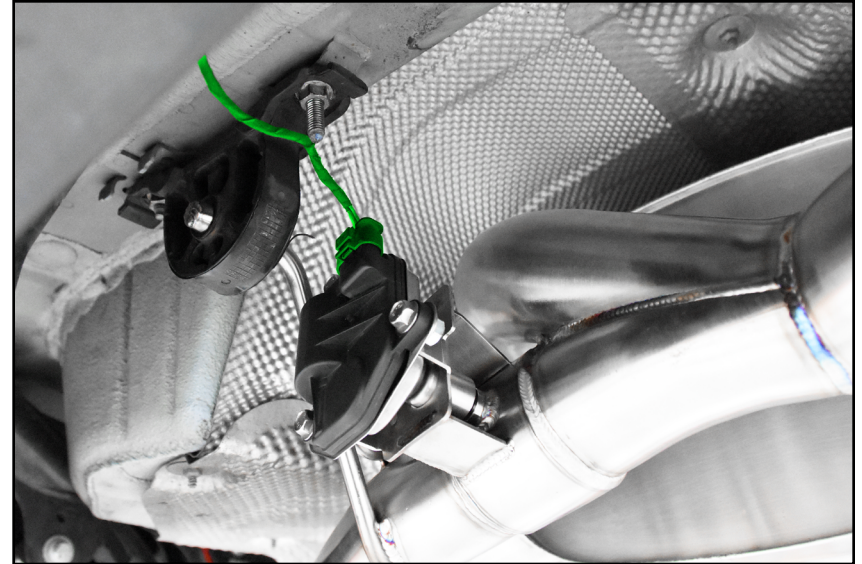
Lift the assembled muffler into place, sliding the rear pipes onto the resonator as shown. Reinstall the nuts to secure the exhaust hangers (arrows) to the vehicle. Torque each nut to 19 Nm (14 Ft-lbs).



INSTALLING THE NEW VALVED EXHAUST SYSTEM

Step 8:

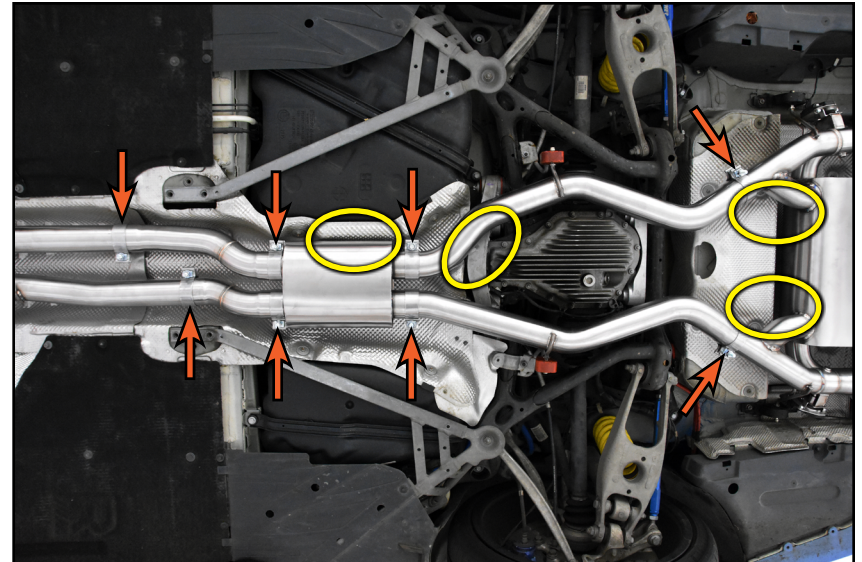
Reconnect the wiring harness (highlighted in **GREEN**) to the exhaust valve controller as shown.



Step 9: 15mm Socket & Ratchet

Pay close attention to the areas circled in **YELLOW**, clearance may be very limited in these areas. Rotate and adjust the pipes as needed to maximize clearance around the exhaust pipes, then tighten the clamps (arrows) until fully snug once you are satisfied with fitment and orientation.

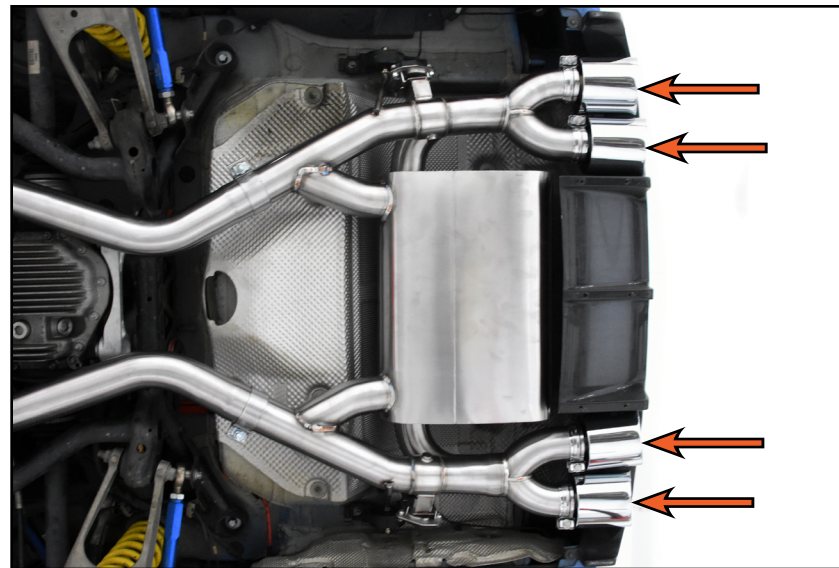
Reinstall the tunnel brace (not shown).



INSTALLING THE NEW VALVED EXHAUST SYSTEM

Step 10:

Slide the provided exhaust clamps (arrows) onto the muffler as shown.



Step 11: 13mm Socket & Torque Wrench

Working at eye-level from the rear of the car, center and level the exhaust tips in the bumper cut outs. Ensure that the Turner logos are facing upward and there is adequate clearance between the tips and the rear diffuser. Tighten the clamps to 19 Nm (14 Ft-lbs) once you are satisfied with fitment.

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

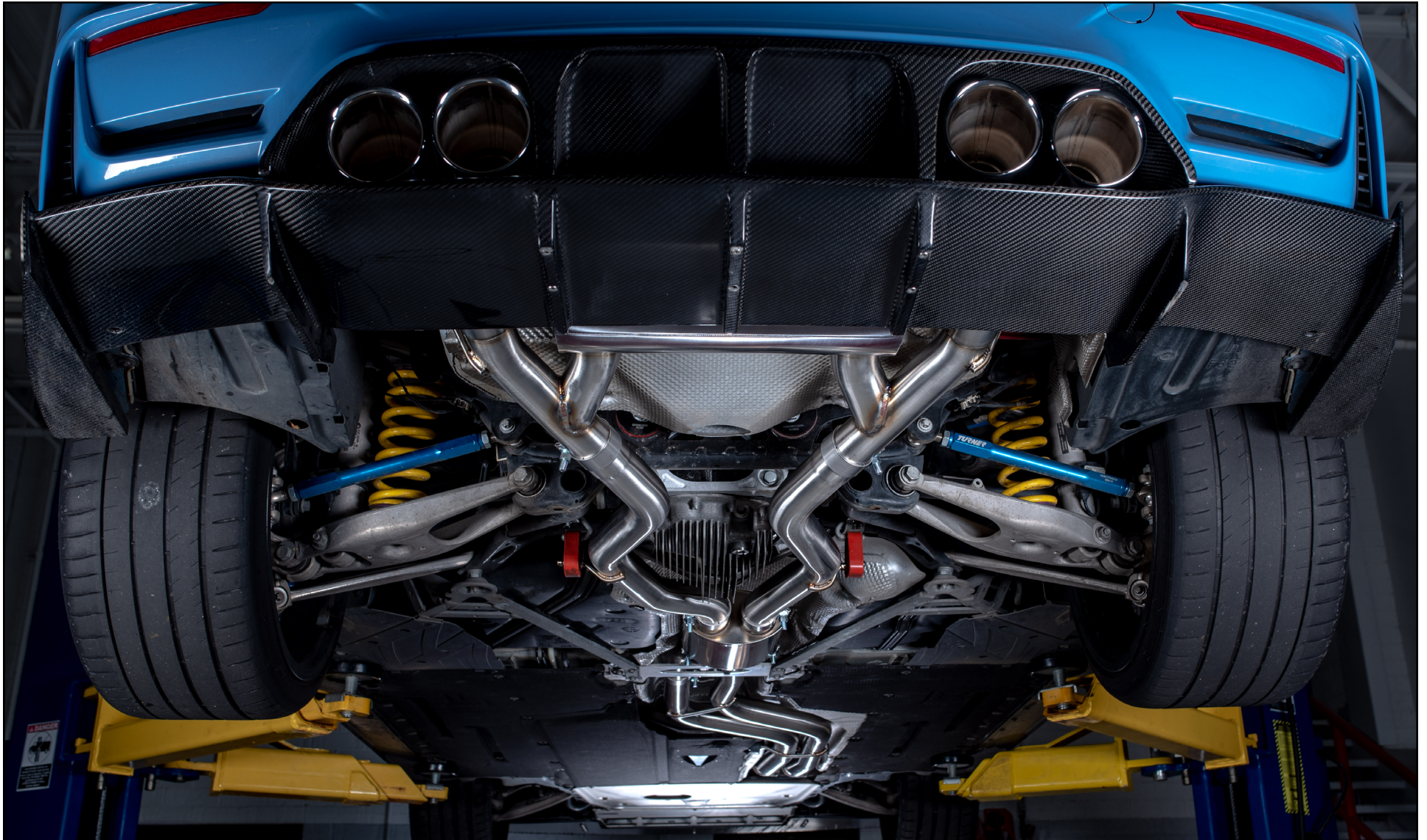
Start the engine and check the exhaust system for leaks.

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

Congratulations, your installation is complete!



Your Valved Exhaust System installation is complete!



These instructions are provided as a courtesy by Turner Motorsport

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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