



BMW F3x N55 Valved Exhaust System Installation Guide

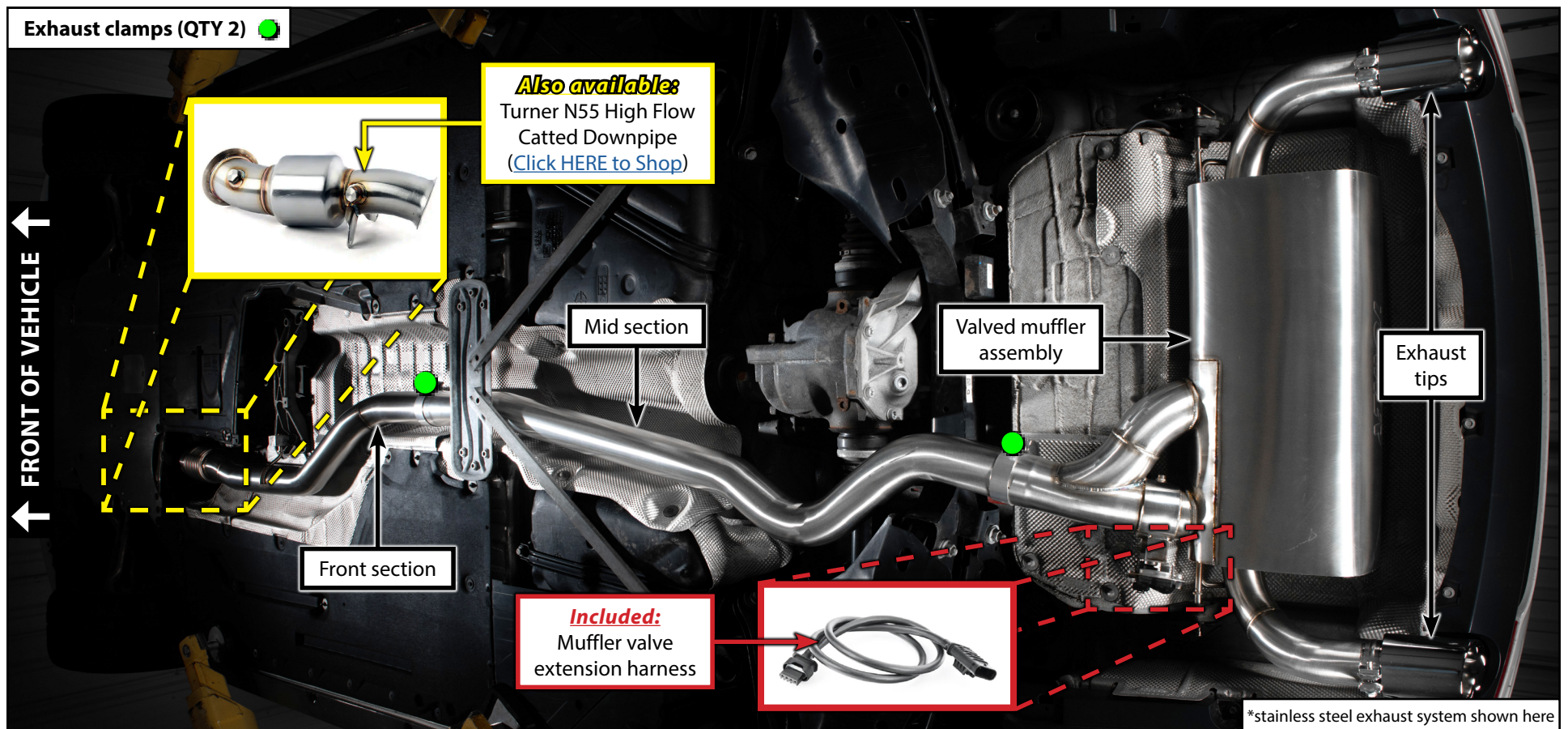


Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times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

TABLE OF CONTENTS

Installation and Safety Information	pg.3
Removing the Stock Exhaust System	pg.4
Installing the New Valved Exhaust System	pg.5

KIT CONTENTS



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.

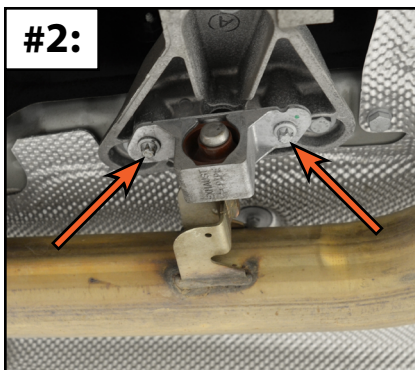
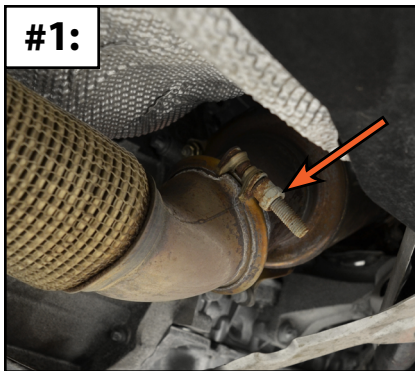
REMOVING THE STOCK EXHAUST SYSTEM

Step 1:

Safely lift and support the vehicle, remove the belly pans and the body cross brace located underneath the tunnel. Soak the V-band clamp nut with penetrating oil (**Photo #1**), then remove it.

Safely support the exhaust system from below. Disconnect the electrical connector from the valve on the LH side of the muffler (arrow in **Photo #3**). Remove the two E10 Torx bolts which secure the front exhaust hanger to the transmission crossmember (arrows in **Photo #2**). Remove the 13mm nut which secures each of the rear muffler hangers into place (circled in **YELLOW** in **Photo #3**).

Carefully lower the entire system to the ground.



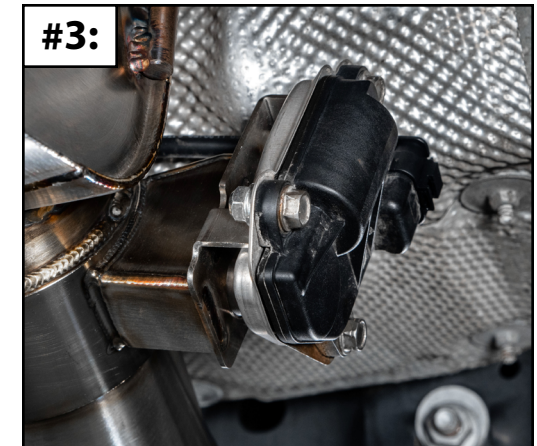
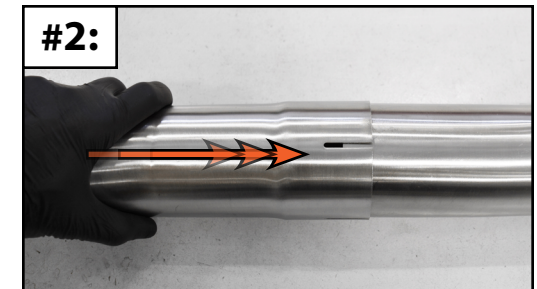
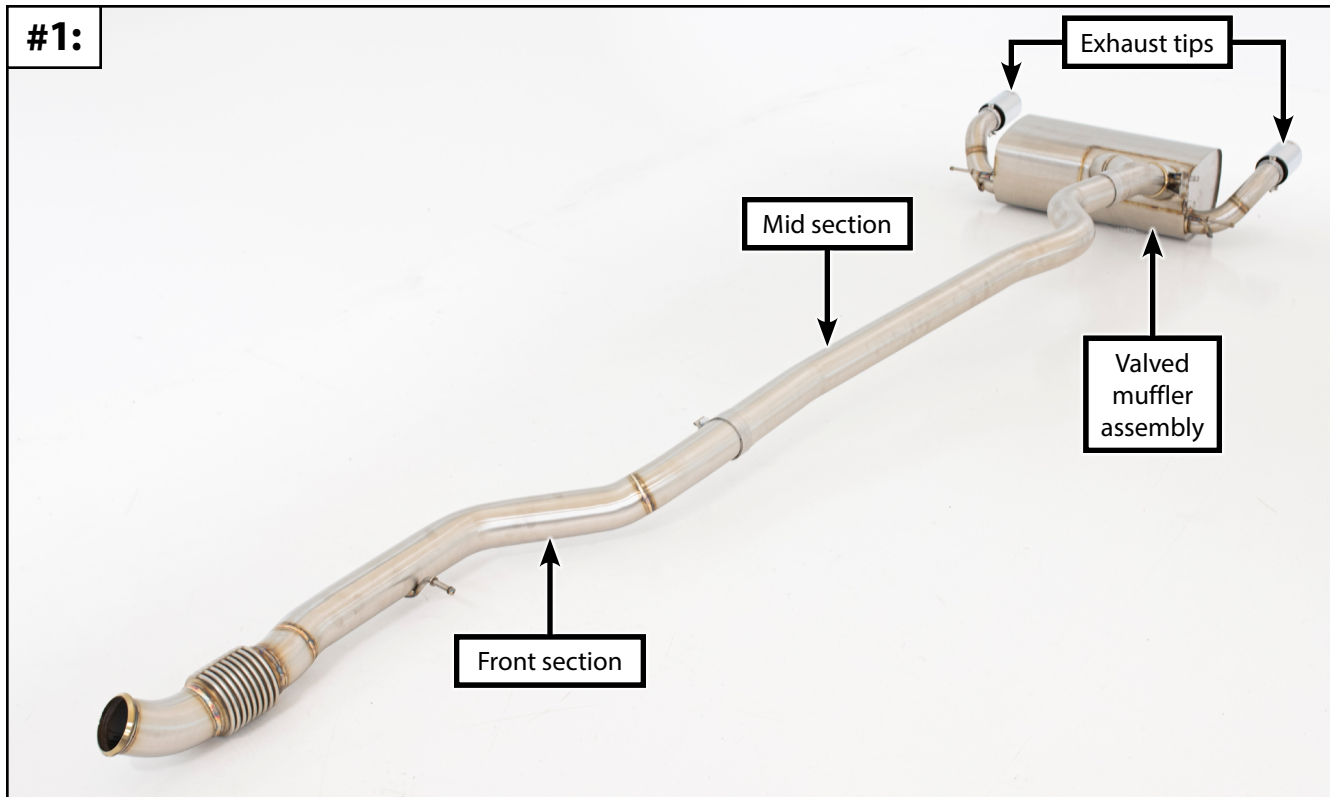
INSTALLING THE NEW VALVED EXHAUST SYSTEM

Step 1: Ball Pein Hammer, 10mm Socket & Ratchet

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, gently tap on the ends of the pipes with a ball pein hammer to straighten them, then recheck fitment.

Transfer the exhaust valve over to the new muffler (**Photo #3**).

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.

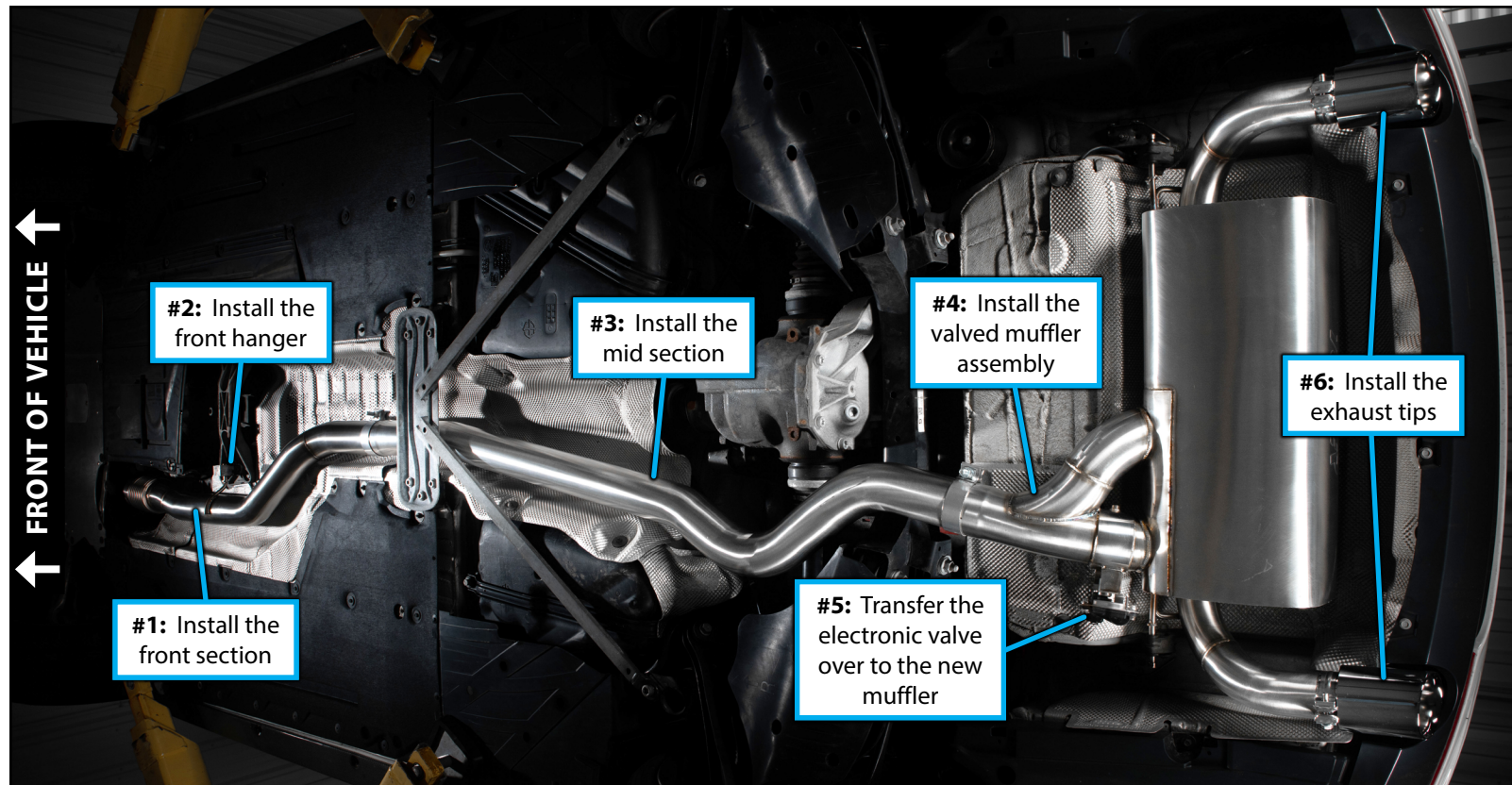


INSTALLING THE NEW VALVED EXHAUST SYSTEM

Step 2: 13mm Socket & Ratchet

Loosely install the exhaust system from front to back.

Tighten all of the exhaust clamps to snug, but leave them loose enough to allow you to adjust the system for proper fitment. The key to proper adjustment is patience, so take your time and **DO NOT** fully tighten any of the clamps until you reach the steps on Page 8.



INSTALLING THE NEW VALVED EXHAUST SYSTEM

Step 3: 13mm & 15mm Sockets, Ratchet

Check the hanger rod on the front exhaust section to ensure that it is sitting level side-to-side (**Photo #1 & Photo #2 below**). This only applies to the front hanger, the hanger rods on the muffler are not adjustable in this way.

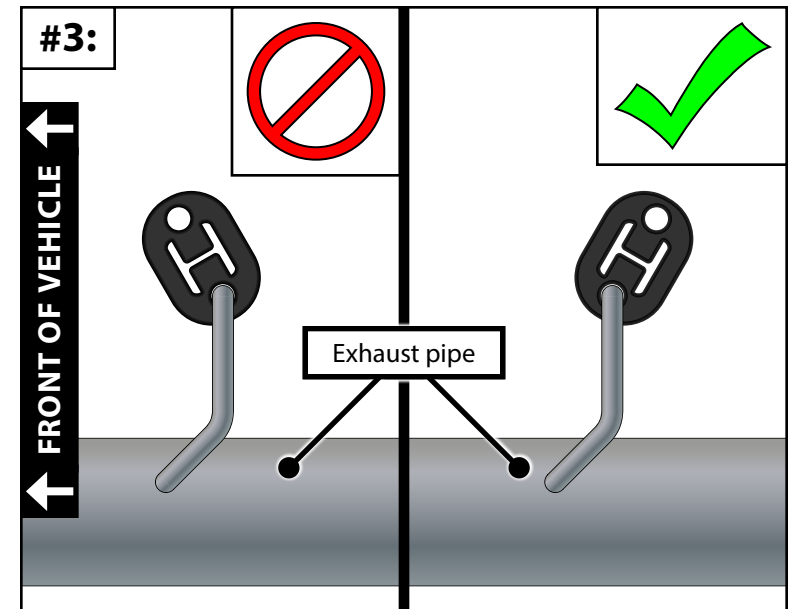
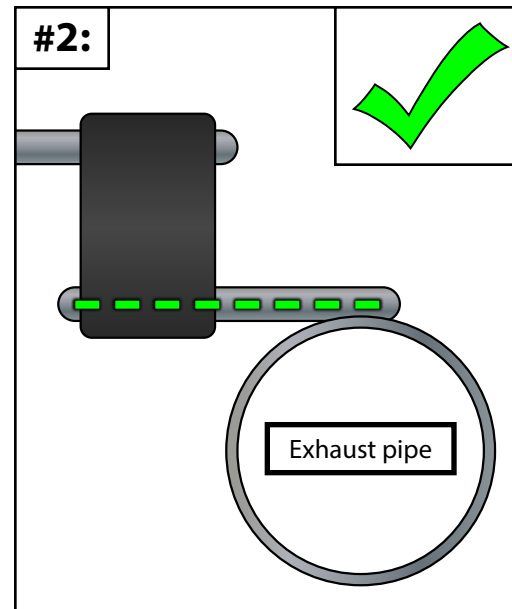
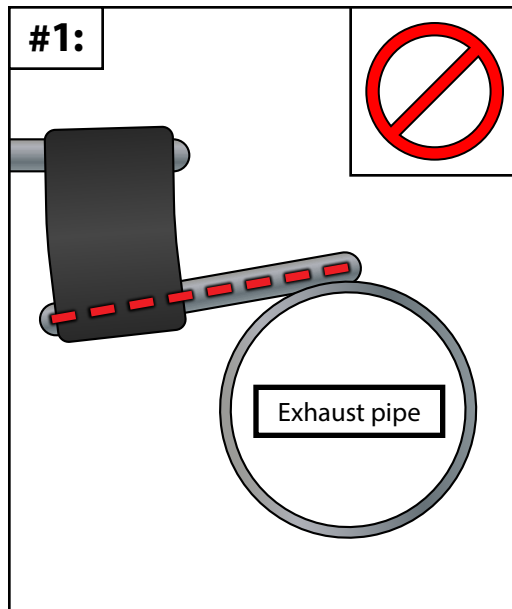
Next, we want to ensure that all of the exhaust hangers are rotated at least slightly toward the front of the vehicle (**Photo #3 below**). The exhaust hangers should be inclined toward the front of the vehicle so that lower hole is approximately 10-15mm forward of the upper hole, this will allow the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

Step 4: 13mm & 15mm Sockets, Ratchet

Closely inspect the entire exhaust system. Check for clearance between the pipes and nearby chassis and drivetrain components.

Center and level the exhaust tips inside the bumper cut outs.

Fully tighten down all exhaust clamps.

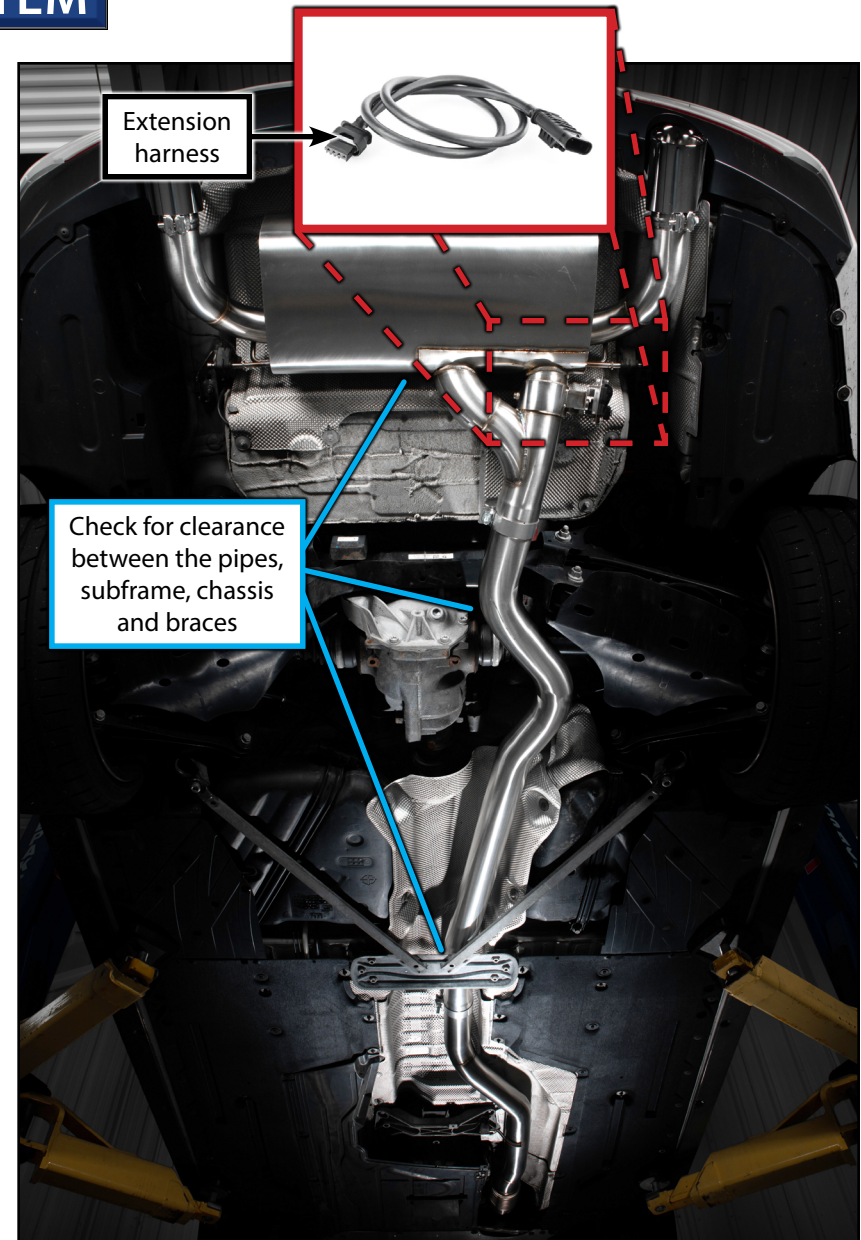
Install the extension harness between the factory connector and the relocated valve on the new muffler.

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

- Any fingerprints or visible dirt on the surface will contaminate the finish surface once heat cycled.
- Brake cleaner works fine for cleaning the system, apply WD-40 to a microfiber towel and wipe the system down after cleaning it to bring out the color and make it pop.

Reinstall the belly pans (if removed).

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



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.

Although this material has been prepared with the intent to provide reliable information, no warranty (express or implied) is made as to its accuracy or completeness. Neither is any liability assumed for loss or damage resulting from reliance on this material. SPECIFICALLY, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER WARRANTY IS MADE OR TO BE IMPLIED WITH RESPECT TO THIS MATERIAL. In no event will Turner Motorsport, Incorporated or its affiliates be liable for any damages, direct or indirect, consequential or compensatory, arising out of the use of this material.