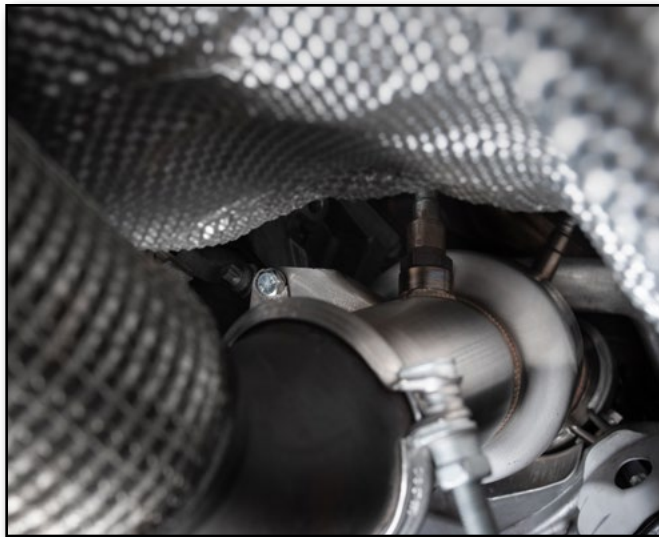




BMW F3x N55 Downpipe with High Flow Cat Installation Instructions



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



Downpipe w/High Flow Cat



Downpipe to Midpipe Clamp



Downpipe to Turbo Clamp



Gasket



Hardware

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.

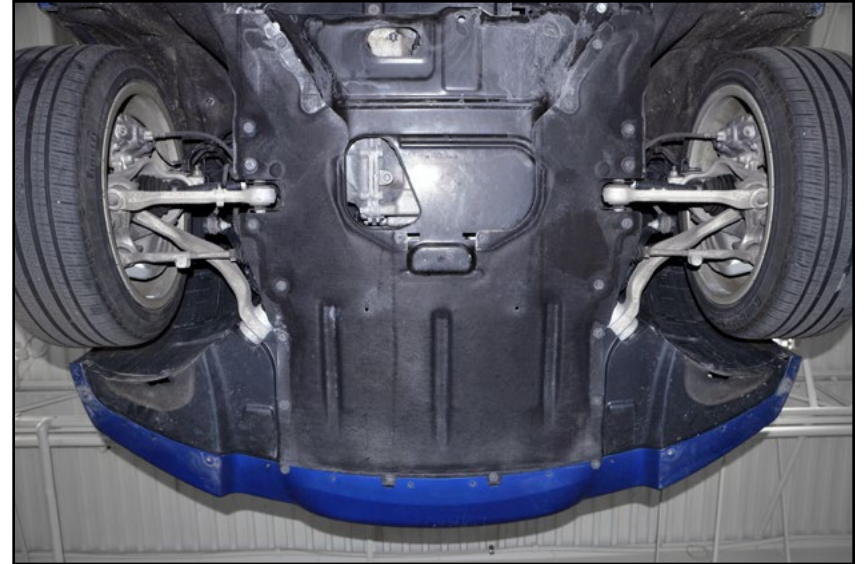


NEVER get underneath a vehicle that is supported only by a jack, and **ALWAYS** make sure that the vehicle is securely supported on jack stands.

REMOVING THE STOCK DOWNPIPE

Step 1: 8mm Socket, 10mm Socket, 13mm Socket & Ratchet

Remove all the underbody protection panels from beneath the vehicle to access the downpipe.

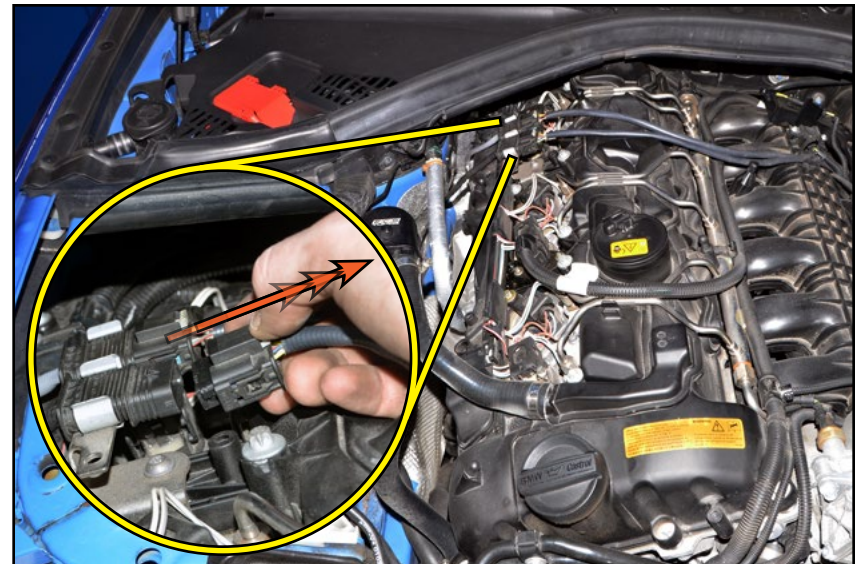


Step 2:

Remove the engine cover and pull back on the release tabs to disconnect the oxygen sensor connectors from the oxygen sensor wires as shown in the inset photo.



These connectors are specific to each oxygen sensor wire, so it may be helpful to mark them with a piece of masking tape to avoid accidentally mixing them up during reassembly.

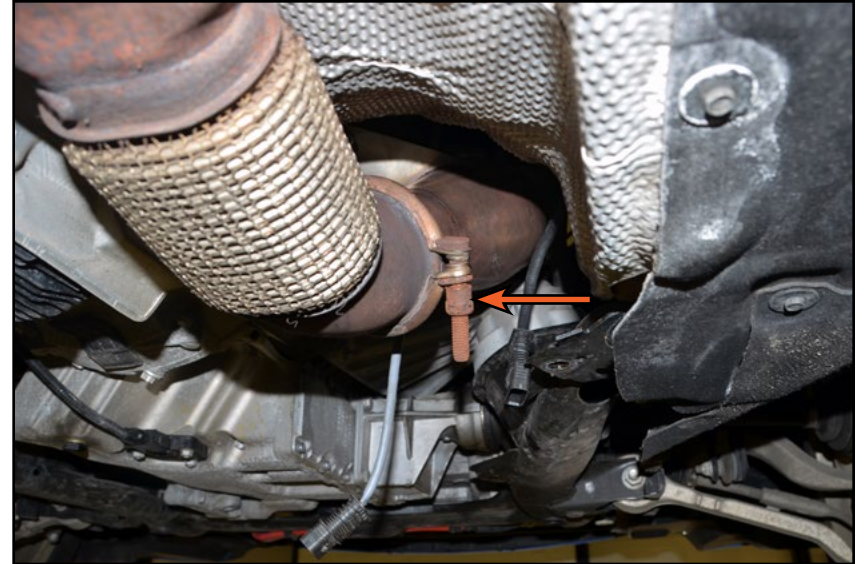


REMOVING THE STOCK DOWNPIPE

Step 3: 16mm Socket & Ratchet

Feed the oxygen sensor wires down to the underside of the vehicle, disconnecting it from its mounting clips as you go.

Loosen the nut (arrow) on the clamp which secures the downpipe to the midpipe.



Step 4: 13mm Socket & Ratchet

On the upper end of the downpipe, loosen the bolt on the clamp which secures the downpipe to the turbo.



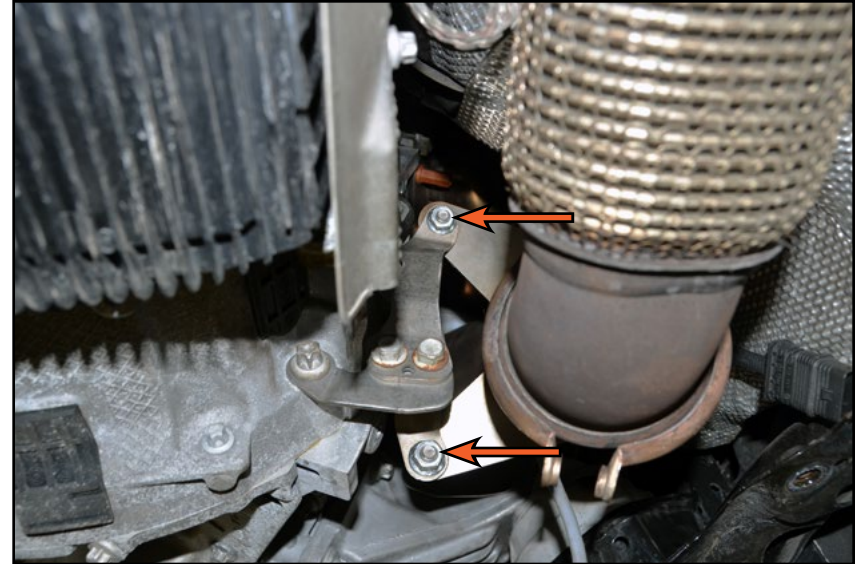
REMOVING THE STOCK DOWNPIPE

Step 5: 13mm Wrench, 13mm Socket & Ratchet

Loosen and remove the two nuts (arrows) which secure the downpipe to the mounting bracket.



Earlier models will feature a downpipe which is secured to the mounting bracket by only one nut.



Step 6:

Rotate the downpipe free from the clamps and carefully lower it from the vehicle, making sure that the oxygen sensor wires don't get snagged on their way out.



INSTALLING THE NEW DOWNPIPE

Step 1: Oxygen Sensor Wrench

Transfer the oxygen sensors from the stock downpipe over to the new downpipe and tighten them to 50 Nm (37 Ft-lbs).



Step 2: Angled Pick

Remove the old gasket ring from the groove in the turbo as shown and replace it with the new gasket provided in the kit.



INSTALLING THE NEW DOWNPIPE

Step 3:

Remove the bolt from the provided clamp and slide it over the turbo flange as shown.



The engine mount bracket has been removed in these photos for clarity. It is NOT necessary to remove this bracket for installation.



Step 4: 13mm Socket & Ratchet

Lift the new downpipe into place and slide the clamp over the downpipe and turbo flanges, sandwiching them together. Loosely install the bolt (arrow) through the clamp to hold the downpipe in place.



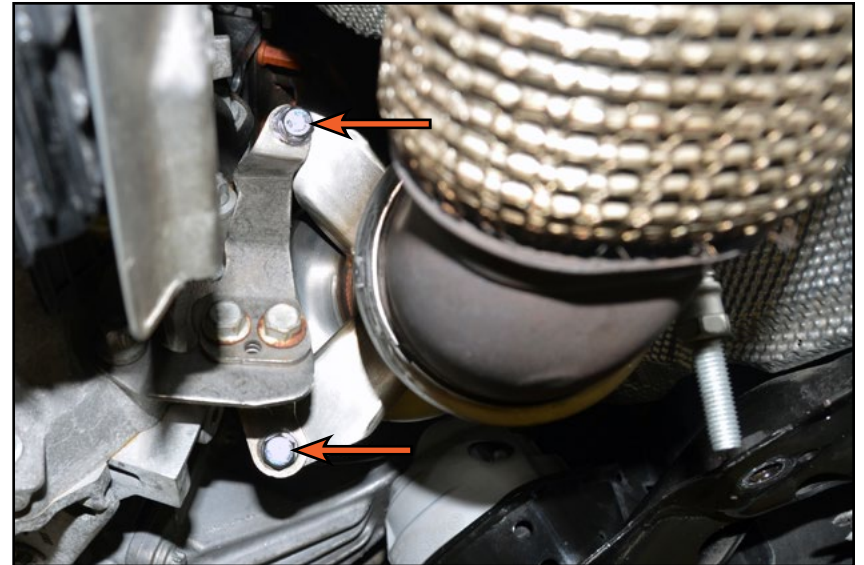
INSTALLING THE NEW DOWNPIPE

Step 5: 13mm Wrench, 13mm Socket & Ratchet

Install the provided bolts, nuts and washers through the mounting tab and into the downpipe as shown (arrows), then tighten the nuts to 28 Nm (21 Ft-lbs). Go back and tighten the clamp on the turbo to 13 Nm (10 Ft-lbs).

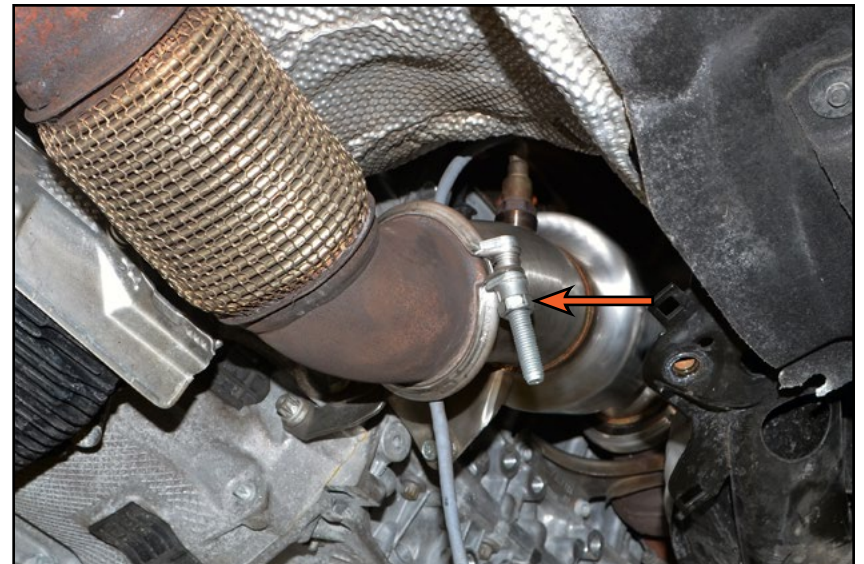


Earlier models will feature a downpipe which is secured to the mounting bracket by only one bolt.



Step 6: 16mm Socket & Ratchet

Install the provided clamp between the downpipe and the midpipe and tighten the nut (arrow) to 25 Nm (17 Ft-lbs).



INSTALLING THE NEW DOWNPIPE

Step 7:

Route the oxygen sensor wires back up to the engine bay and reconnect them to the connectors as shown.



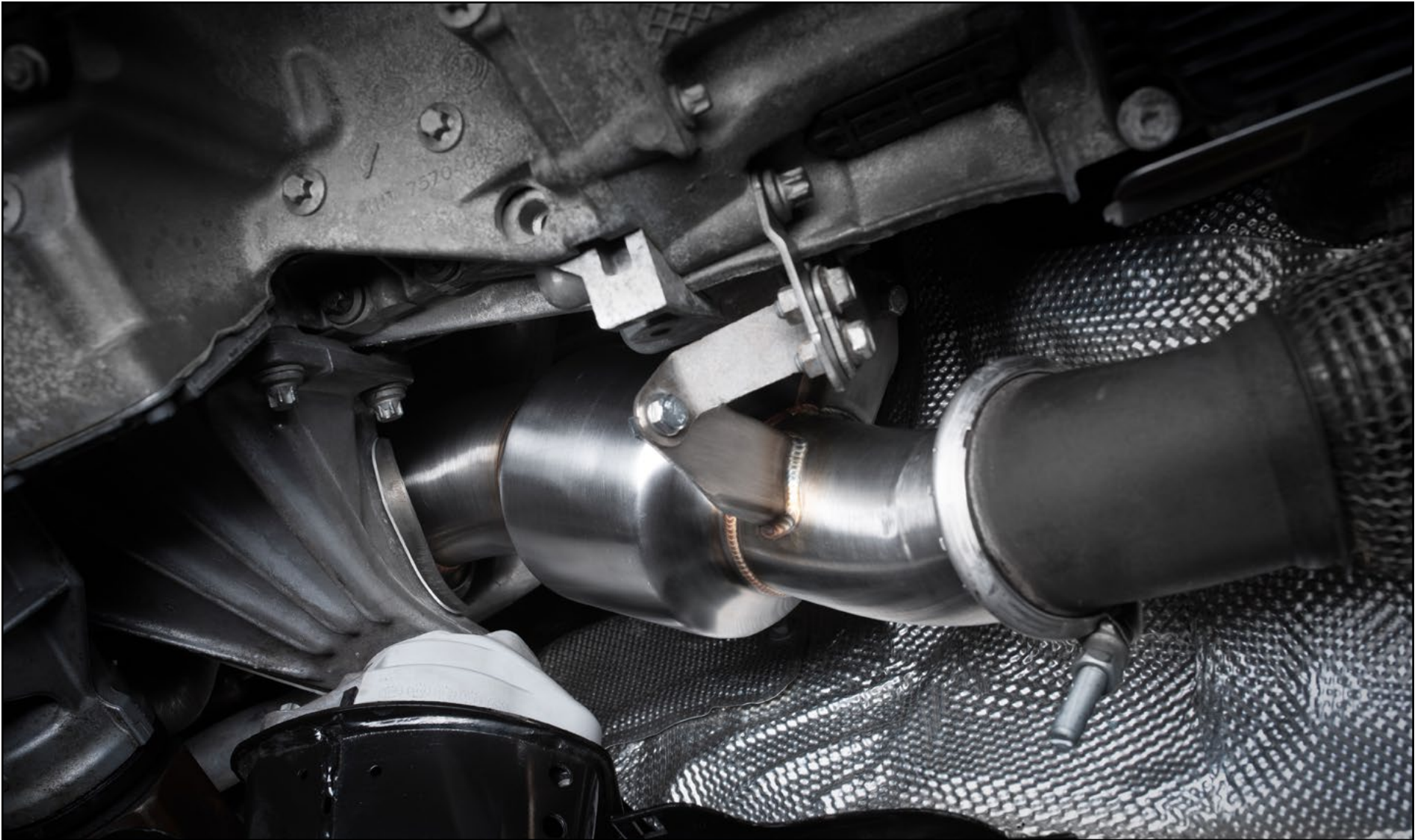
Step 8: 8mm Socket, 10mm Socket, 13mm Socket & Ratchet

Start the vehicle and check for leaks, then reinstall the underbody protection panels.



Congratulations, your installation is complete!

Your Downpipe installation is complete!



These instructions are provided as a courtesy by Turner Motorsport

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