

Exhaust System Installation for BMW M3 (E46)



These instructions have been written to help you with the installation of your Borla Performance Exhaust System. Please read this document completely before beginning the installation of your system.

Please compare the parts in the box with the bill of materials provided to assure that you have all the parts necessary for this installation.

To ensure this part number fits your specific model year, please visit our website for the latest model year listings at www.BORLA.com.

Thank you for purchasing a Borla Performance Cat-Back™ Exhaust System.

This Borla Performance Cat-Back™ Exhaust Systems (Part number 140394) is designed for the BMW M3 equipped with a 3.2L V6 engine, rear-wheel drive and automatic/manual transmissions.

Borla Performance Industries recommends that an exhaust shop or professional after market parts installer, who has all the necessary equipment, tools and experienced personnel needed for proper installation, should perform the installation of this system. However, if you decide to perform the installation, we recommend someone should help you. Ensure the installer uses all under car safety precautions including eye protection.

Please take time to read and understand the following...

By installing your Borla Performance Exhaust System, you indicate that you have read this document and you agree with the terms stated below.

It is the responsibility of the purchaser to follow all installation instruction guidelines and safety procedures supplied with your Borla Performance Exhaust System

Borla Performance Industries assumes no responsibility for damages occurring from misuse, abuse, improper installation, improper operation, lack of responsible care, or all previously stated reasons resulting from incompatibility with other manufacturer's products and/or systems.

Included with your Borla Performance Exhaust System is a warranty card. Please read it carefully before you begin any work on your vehicle. If you should have any questions regarding our warranty policy, installation, or any other matter pertaining to your new Borla Performance Exhaust System, please give us a call at the number provided on the warranty card.

Minimum Required Tool List:

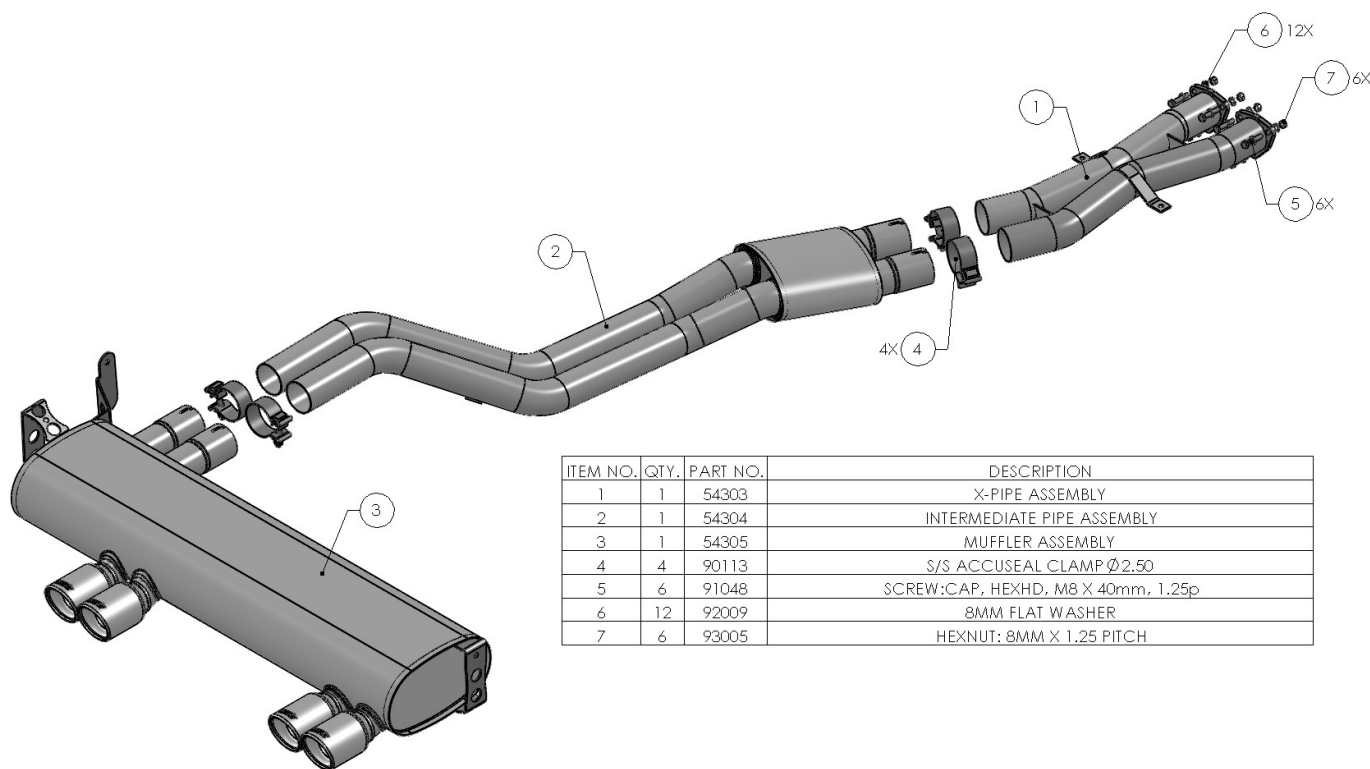
TOOLS:

1. 3/8" Drive Ratchet
2. 3/8" Drive Extension 3"
3. 15mm Deep Well Socket
4. Pry Bar

SHOP SUPPLIES:

- 1 Spray Lubricant

Borla Performance Cat-back™ Bill of Materials



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	54303	X-PIPE ASSEMBLY
2	1	54304	INTERMEDIATE PIPE ASSEMBLY
3	1	54305	MUFFLER ASSEMBLY
4	4	90113	S/S ACCUSEAL CLAMP Ø2.50
5	6	91048	SCREW:CAP, HEXHD, M8 X 40mm, 1.25p
6	12	92009	8MM FLAT WASHER
7	6	93005	HEXNUT: 8MM X 1.25 PITCH

Caution!!! Never work on a hot exhaust system. Serious injury in the form of burns can result. If the vehicle has been in use and the exhaust system is hot, allow vehicle to cool for at least 1 hour. Always wear eye protection when working under any vehicle.

Note: It is our recommendation that you use a hoist or hydraulic lift to facilitate the installation of your new Borla Performance Rear Section Exhaust System.

Taking all under car safety precautions, lift the vehicle using a hoist or hydraulic lift. Once this has been done, you may begin the removal of your old exhaust system from your vehicle.

Note: Before removing the original exhaust system from your vehicle, please compare the parts you have received with the bill of materials provided on the previous page to assure that you have all the parts necessary for the installation of your new Borla Performance Rear Section Exhaust System.

Original Exhaust System Removal

Note: With a used vehicle, we suggest a penetrating spray lubricant to be applied liberally to all exhaust fasteners and allowing a significant period of time for the chemical to lubricate the threads before attempting to dis-assemble.

1. Lubricate all hangers and rubber isolators.
2. Temporary remove (2) OE cross-braces and left-side diagonal-bracing. Keep hardware for reinstallation later. (See Fig.1)
3. Using a muffler stand or an additional person to support the factory mid-pipe, unbolt the front/rear flange hardware. (See Fig. 2) Carefully remove mid-section muffler from vehicle.
4. Use a muffler-stand to support muffler assembly. Remove (2) left-side and (2) right-side bolts from the muffler assembly brackets attached to the chassis. Carefully remove muffler assembly from vehicle. (See Fig. 3)
5. Loosen bolts and remove OE muffler brackets from muffler for re-installation. (See Fig. 4)

Warning: Use extreme caution during installation. Torque all fasteners according to manufacturer's torque values and tightening sequence. DO NOT use air impact tools to tighten fasteners on Borla Performance Exhaust Systems. Use of such tools may result in bent flanges or gasket contact areas leading to exhaust leaks.

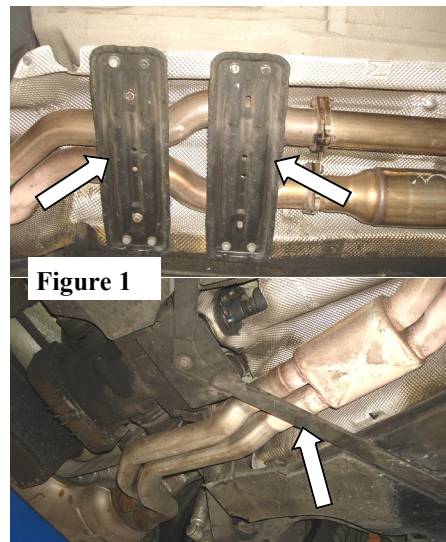


Figure 1

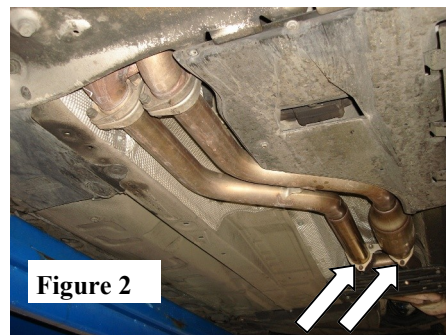


Figure 2

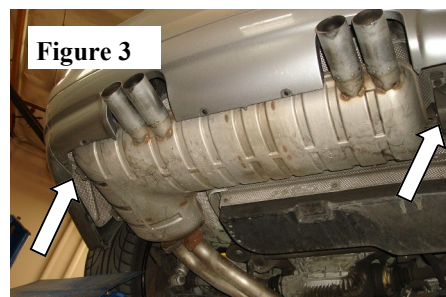


Figure 3

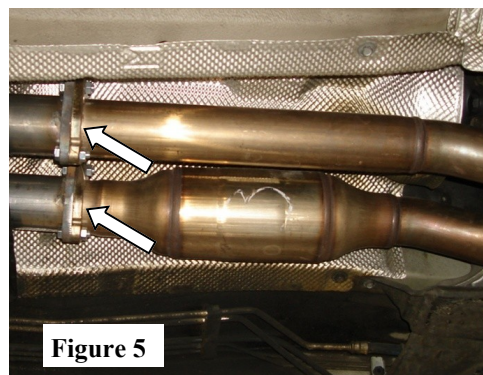
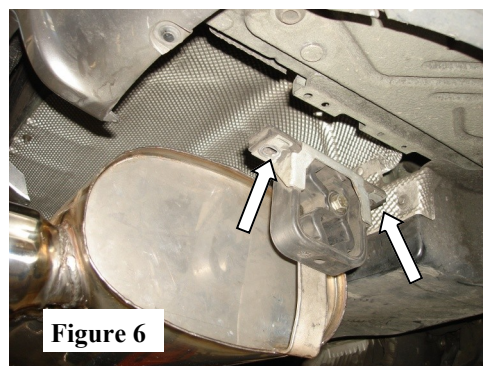
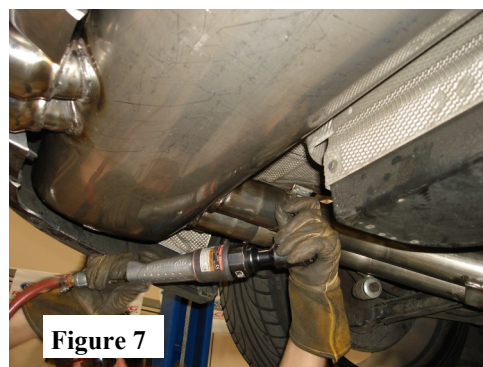
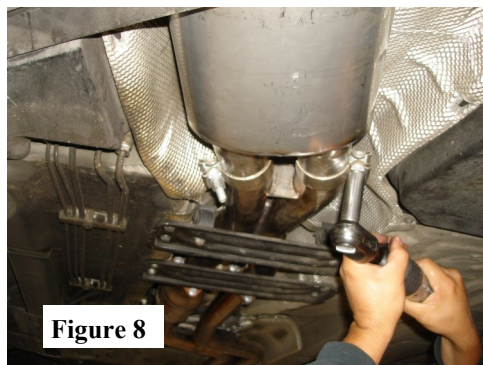


Figure 4

Borla Performance Cat-Back™ Exhaust System Installation

1. Connect X-Pipe Assembly to front flanges using supplied hardware. (See Fig. 5) Carefully insert hangers into OE rubber isolators.
2. Place a clamp over the expanded ends of the Intermediate Pipe Assembly and insert inlet into X-Pipe Assembly, carefully inserting hangers into factory rubber isolators. Do not tighten clamps
3. Install OE muffler brackets to left-side and right-side of Borla Rear Muffler Assembly using original hardware.
4. Place a clamp on each outlet pipe of the Intermediate Pipe Assembly. With assistance from a helper and a muffler stand, carefully position the Muffler Assembly inlet pipes into Intermediate Pipe Assembly. Align brackets bracket holes and reinstalling original bolts to left and right sides.
5. Reinstall (2) OE cross-braces and diagonal bracing using original hardware.
6. Check your exhaust system for proper clearance under the vehicle and also for tip alignment.
7. Once position has been determined to be correct, tighten the Accuseal clamps to 32-35 ft. lbs. Tighten OE hardware to cross bracing and diagonal bracing. (See Figs. 7 & 8)
8. Before starting your vehicle, make sure to check all wires, hoses, brake lines, body parts and tires for safe clearance from the exhaust system.
9. Start vehicle and check for any leaks. If any leaks are found, determine cause (such as loose or incorrectly positioned clamp) and repair as necessary.

Note: When you first start your vehicle after the installation of your new Borla Performance Exhaust System, there may be some smoke and fumes coming from the system. This is a protective oil based coating used in the manufacturing of mandrel bent performance exhaust tubing. This is not a problem and will disappear within a very short period of time after the exhaust has reached normal operating temperatures.

**Figure 5****Figure 6****Figure 7****Figure 8**