

Installation for BMW F10 M5 PN-140511, 140566



Thank you for purchasing a Borla [Performance Exhaust System](#).

Borla Performance Cat-Back™ Exhaust Systems (140511, 140566) are designed for the BMW M5 (F10), 4.4L V8 twin-turbocharged engine, automatic transmission.

Borla Performance Industries recommends that an exhaust shop or professional after market parts installer perform the installation of this system. However, if you decide to perform the installation on your own it is recommended that two people are used. This installation should not be performed by one person due to the risk of injury. Ensure the installers use 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:

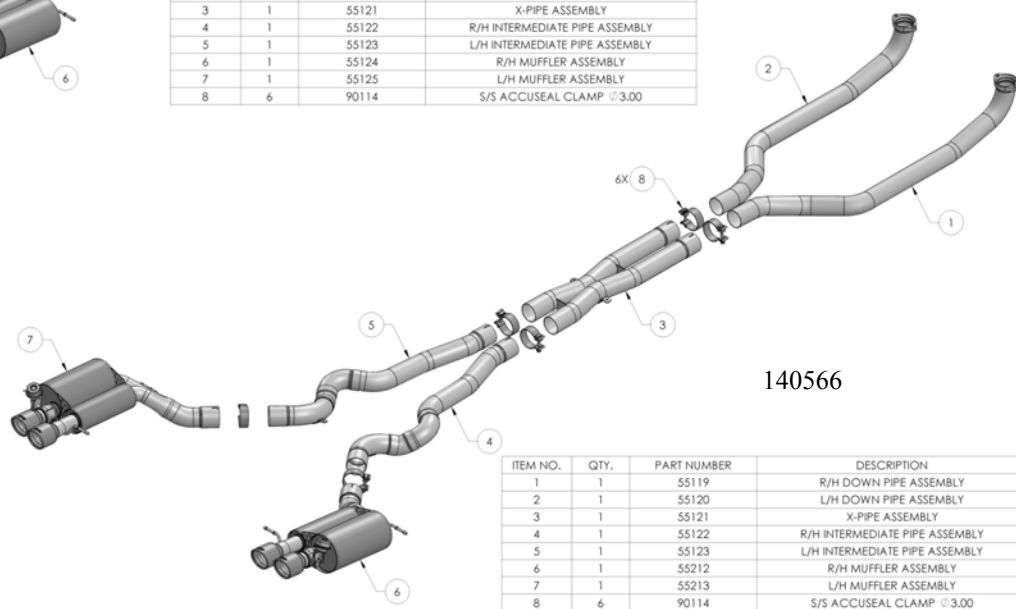
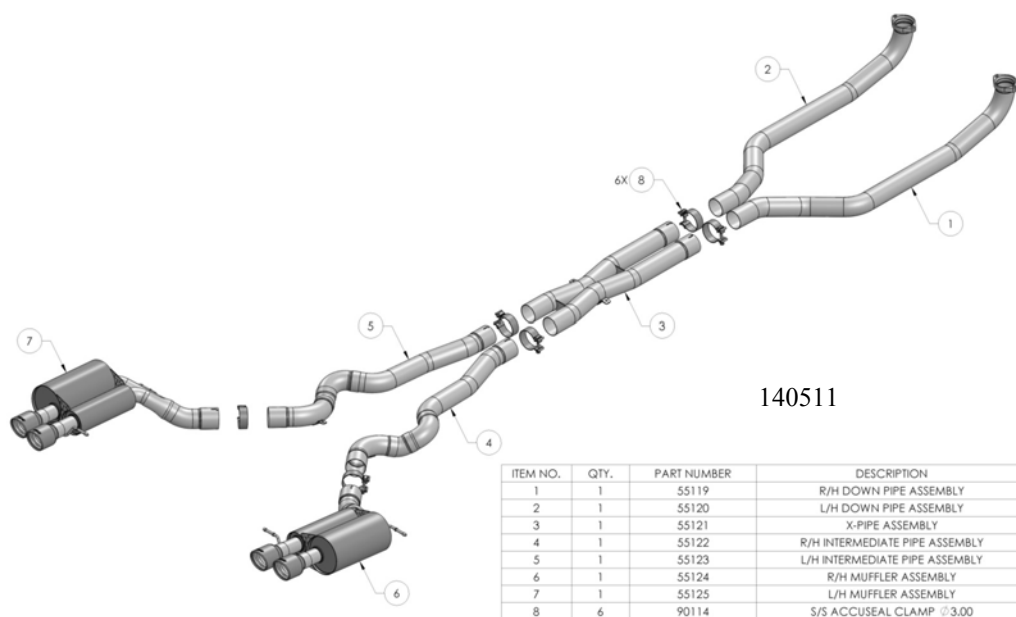
TOOLS:

1. 3/8" Drive Ratchet
2. 3/8" Drive Extension 3"
3. 13mm, 14mm sockets
4. 15mm Deep Well Socket
5. Pry Bar

SHOP SUPPLIES:

- 1 Spray Lubricant

Borla Performance - Bill of Materials



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 Cat-Back™ Exhaust System.

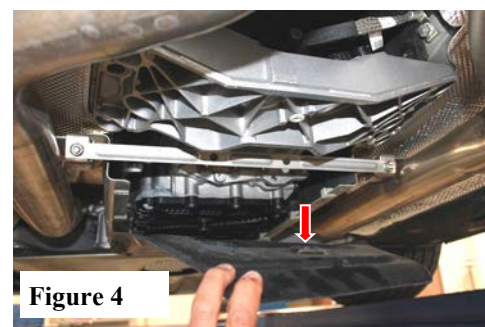
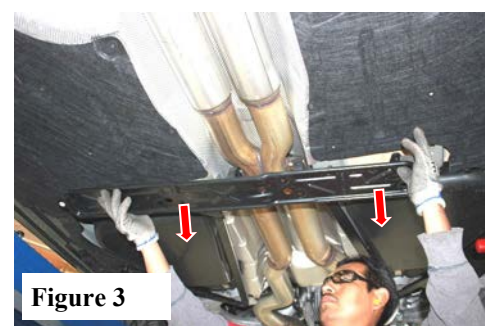
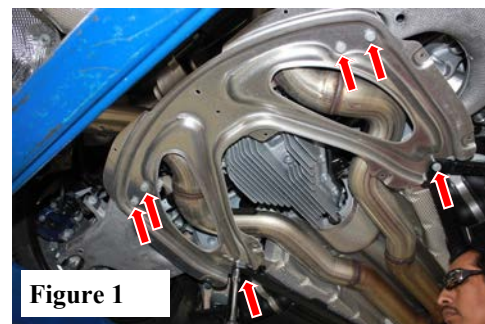
Taking all under car safety precautions, lift the vehicle using a hoist or hydraulic lift. Once this has been done, you may begin the removal of your old exhaust system from your vehicle.

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 Cat-Back™ 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 disassemble.

1. Lubricate all the hangers and rubber isolators.
2. Loosen and remove (6) bolts and remove rear bracket as shown. **Keep factory hardware for reinstallation.** (See Figs.1 & 2)
3. Loosen and remove center support as shown. **Keep factory hardware for reinstallation.** (See Fig. 3)
4. Loosen and remove single bolt of panel as shown. This allows cross-bracket to remain on exhaust for removal. **Keep factory hardware for reinstallation.** (See Fig. 4)
5. Remove left-side exhaust from vehicle. Remove band-clamp and tip assembly. Remove right-side exhaust from vehicle.



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6. Remove exhaust flange bolts on front exhaust system. (See Fig. 5)
7. Support exhaust system with muffler stands before disconnecting exhaust from vehicle. (See Fig. 6)
8. Loosen and remove ground wire nut. **Keep factory hardware for reinstallation.** (See Fig. 7)

140566 only: Disconnect Leftside & Rightside vacuum hoses to rear valves.

9. Remove rear cross-brace. **Keep factory hardware for reinstallation.** (See Fig. 8)

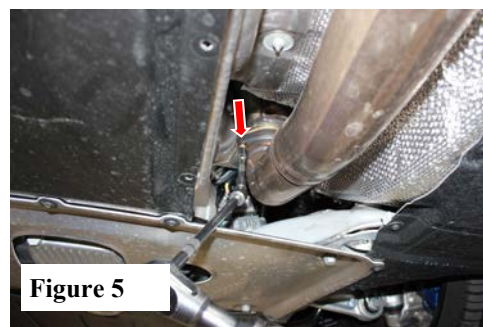


Figure 5



Figure 6

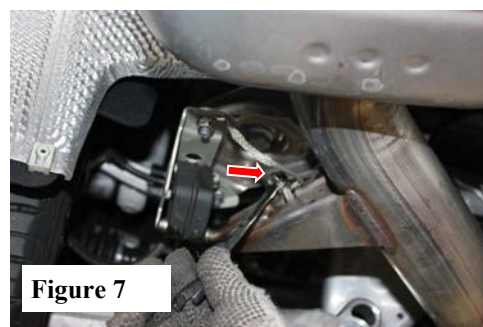


Figure 7

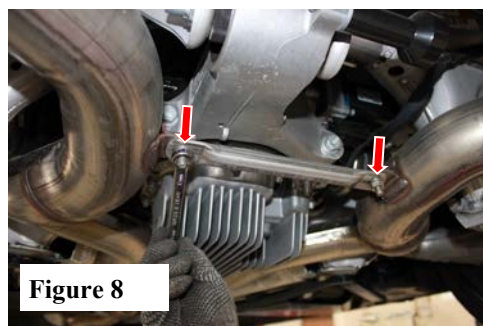


Figure 8

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9. Remove all hangers from rubber isolators. (See Fig. 9)
10. 2-people are needed to remove exhaust from vehicle. Carefully drop and slide exhaust system as shown. (See Figs 10 & 11)
11. Factory exhaust removed from vehicle. (See Fig. 12)
12. Loosen and remove factory X-pipe mounting hardware. This will be re-used in your new Borla cat-back.

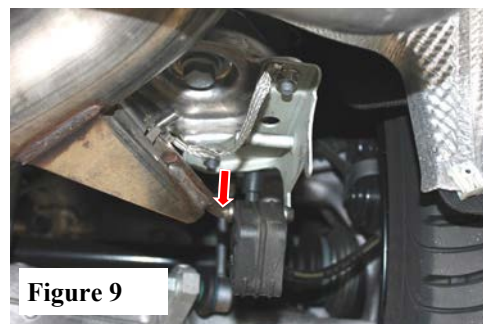


Figure 9

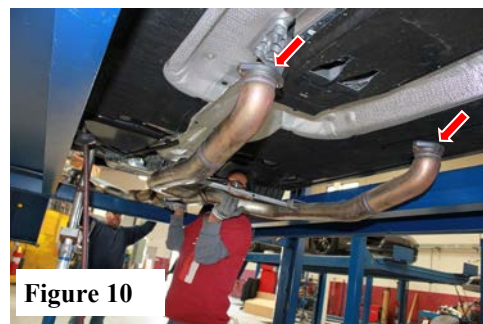


Figure 10



Figure 11



Figure 12

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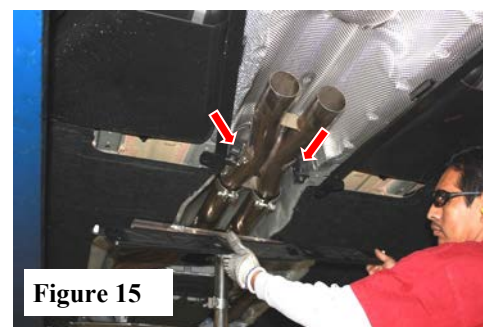
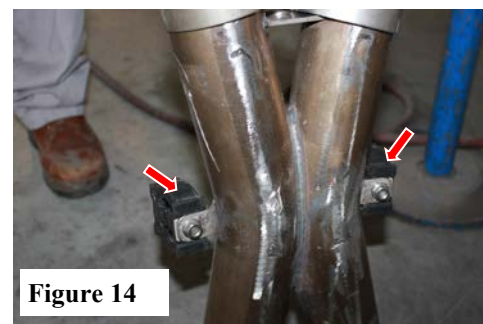
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Borla Performance Exhaust System Installation

1. Refer to page 2 drawing for orientation of components.
2. Position LH Downpipe Assembly and insert flange into bolts. Replace hardware on flanges. (See Fig. 13)
3. Repeat step 13 to RH Downpipe Assembly.
4. Insert removed OE hardware to X-Pipe Assembly as shown (reference page 5, step 12).
5. Place X-Pipe Assembly over installed DP Assemblies as shown. **DO NOT TIGHTEN.** (See Figs. 14 & 15)
6. Reinstall center support using factory hardware. (See Fig. 16)



***** Please refer to factory-recommended bolt torque specifications when tightening original hardware *****

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.

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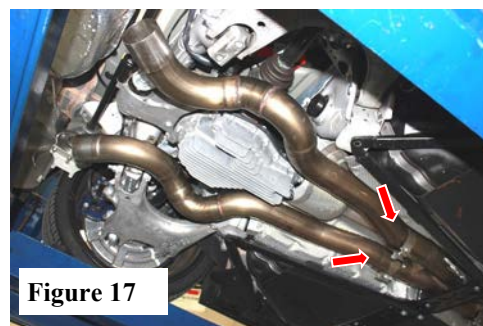
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Borla Performance Exhaust System Installation

6. Place a clamp on front of L/H Intermediate Pipe Assembly and insert pipe into X-Pipe Assembly. Repeat for R/H Intermediate Pipe. (See Fig. 17)
7. Install factory rear cross-brace using factory hardware. (See Fig. 18)
8. Place a clamp on front of L/H Muffler Assembly. Carefully insert hangers into rubber isolators. DO NOT TIGHTEN CLAMP. (See Fig. 19 & 20)



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Borla Performance Exhaust System Installation

9. Place a clamp on front of R/H Muffler Assembly. Carefully insert hangars into rubber isolators. DO NOT TIGHTEN CLAMP. (See Fig. 21 & 22)
10. Install rear bracket using factory hardware. (See Fig. 23)
11. Re-connect ground wire to exhaust (reference page 4, step 7).
12. **PN-140566 only: Re-connect vacuum hose to L & R valves.**
13. Start tightening exhaust hardware at the front flanges to X-Pipe clamps to Intermediate Pipe clamps to Rear Muffler clamps. Check alignment of tips and tighten clamp hardware 35 ft. lbs. torque.



Figure 21



Figure 22



Figure 23

***** Please refer to factory-recommended bolt torque specifications when tightening original hardware *****

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Figure 24