

# Installation for BMW M5 & M6 4-Door Sedans PN's-140511, 140566, 140582





\*\*\*\*\* 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.

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.

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 Exhaust System.

Borla Performance Cat-Back<sup>TM</sup> Exhaust Systems (PN-140511, 140566, 140582) are designed for the BMW M5 & M6 4-Door Sedans, 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:**

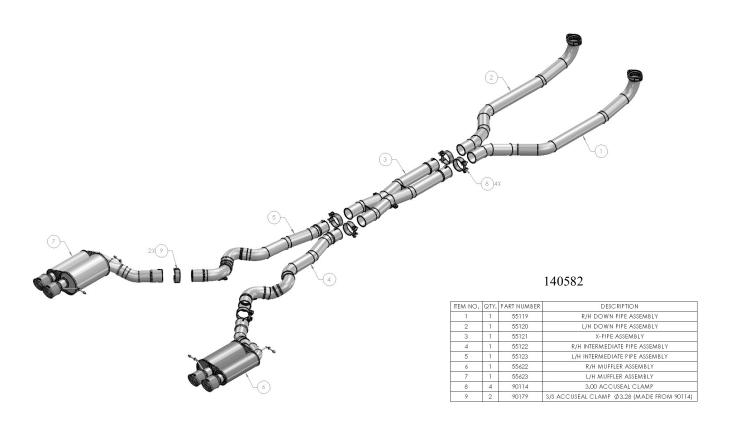
#### **TOOLS:**

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

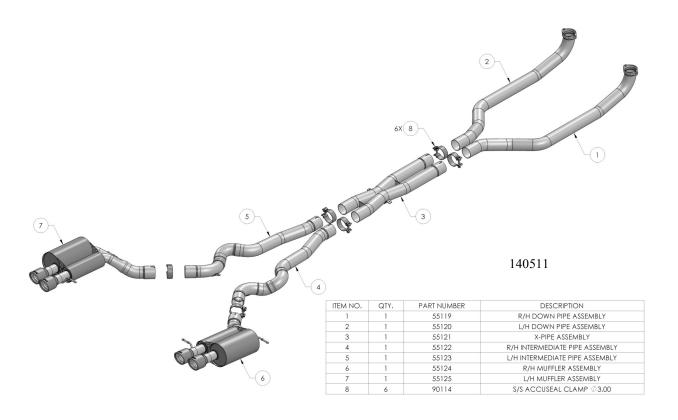
#### **SHOP SUPPLIES:**

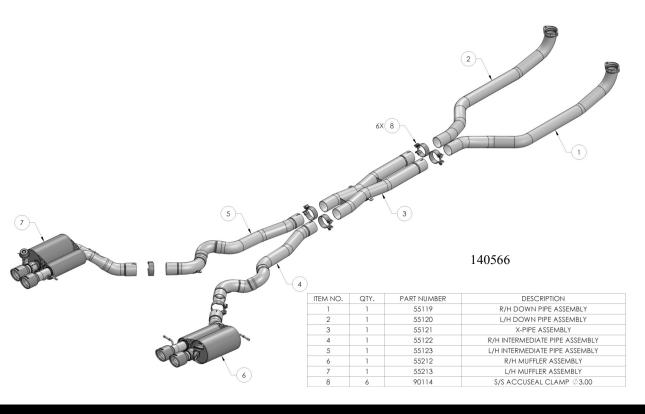
1 Spray Lubricant

#### **Borla Performance - Bill of Materials**











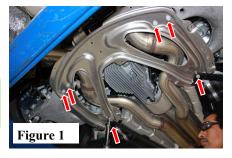
Caution!!! <u>Never</u> work on a hot exhaust system. Serious injury in the form of burns can result If the vehicle has been in use and the exhaust system is hot, allow vehicle to cool for at least 1 hour. Always wear eye protection when working under any vehicle.

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

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.



## **Original Exhaust System Removal**

- 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.







WARNING: Use extreme caution during installation. Torque all fasteners according to manufacturer's torque values and tightening sequence. <u>DO NOT</u> 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.





300 Boria Drive Johnson City TN, 37604-7523 805-986-8600

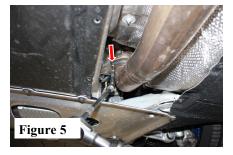
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### **Original Exhaust System Removal**

- 6. Remove exhaust flange bolts on front exhaust system. (See Fig. 5)
- 7. <u>Support exhaust system with muffler stands before disconnecting exhaust from vehicle.</u> (See Fig. 6)
- 8. Loosen and remove ground wire nut. *Keep factory hardware for reinstallation*. (See Fig. 7) <u>140566 only: Disconnect Left-side & Right-side</u> vacuum hoses to rear valves.
- 9. Remove rear cross-brace. *Keep factory hardware for reinstallation.* (See Fig. 8)







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### **Original Exhaust System Removal**

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









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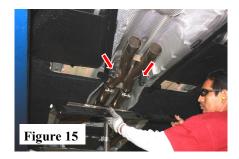


## **Borla Performance Exhaust System Installation**

- 1. Refer to page 2 drawing for orientation of components.
- Position LH Downpipe Assembly and insert flange into bolts. Replace hardware on flanges. (See Fig. 13)
- Repeat step 13 to RH Downpipe Assembly.
- Insert removed OE hardware to X-Pipe Assembly as shown (reference page 5, step 12).
- 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)









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## **Borla Performance Exhaust System Installation**

- 7. 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)
- 8. Install factory rear cross-brace using factory hardware. (See Fig. 18)
- 9. Place a clamp on front of L/H Muffler Assembly. Carefully insert hangars into rubber isolators. DO NOT TIGHTEN CLAMP. (See Fig. 19 & 20)









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## **Borla Performance Exhaust System Installation**

- 10. Place a clamp on front of R/H Muffler Assembly. Carefully insert hangars into rubber isolators. DO NOT TIGHTEN CLAMP. (See Fig. 21 & 22)
- 11. Install rear bracket using factory hardware. (See Fig. 23)
- 12. Reinstall remaining under-body panels.
- 13. Re-connect ground wire to exhaust (reference page 4, step 7).
- 14. PN-140566 only: Re-connect vacuum hose to L & R valves.
- 15. 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.









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