

## Header Installation for Ford Mustang GT, PN-17290\* Adaptor Pipe PN-60566\*\*



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](http://www.BORLA.com).

Thank you for purchasing a Borla Performance Header System.

Borla Performance Header System (PN-17290) is designed for the Mustang GT equipped with a 5.0L V8 engine with an automatic or manual transmissions. Borla Performance Header System (PN-17290) is designed to compliment Borla 3-inch exhaust systems (PNs-140629 & 140630).

**\*NOT LEGAL FOR STREET USE. FOR OFF-ROAD-USE-ONLY**

**\*\* Borla Adapter Pipes (PN-60566) are required when installing Borla 17290 to the OEM, Borla, or other 2.5" exhausts that utilize the factory mounting points.**

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 Long Tube Headers, 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 Long Tube Headers

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 Long Tube Headers 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:**

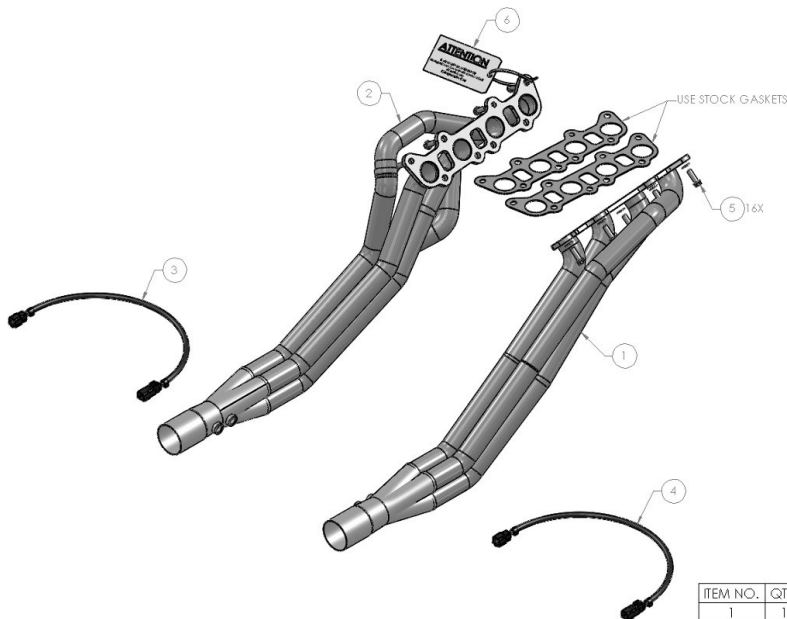
**TOOLS:**

- 1 3/8" Drive Ratchet
- 2 3/8" Drive Extension 3"
- 3 6mm Socket
- 4 10mm Socket
- 5 13mm Socket
- 6 7/8" Combination Wrench

**SHOP SUPPLIES:**

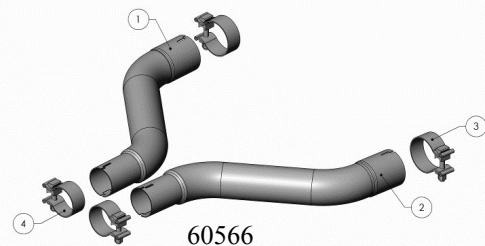
- 1 Spray Lubricant

**Borla Performance - Bill of Materials**



17290

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	54332	R/H HEADER ASSEMBLY
2	1	54333	L/H HEADER ASSEMBLY
3	1	22181	OXYGEN SENSOR EXTENSION (30")
4	1	22182	OXYGEN SENSOR EXTENSION (37")
5	16	91153	SCREW: M10 X 1.25 X 30mm
6	1	96240	OFF HIGHWAY USE ONLY DISCLAIMER



60566

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	69007	LH HEADER ADAPTOR: Ø2.75 X 22.29"	1
2	69008	RH HEADER ADAPTOR: Ø2.75 X 21.48"	1
3	90116	S/S ACCUSEAL CLAMP: Ø2.75	2
4	90112	2.25 ACCUSEAL CLAMP	2

**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 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 Header System Removal

1. Disconnect negative lead from battery terminal prior to installation. (See Fig.1)
2. Remove the air box assembly and intake tube by disconnecting the sensor wiring, acoustic tube, and mounting bolt (10mm head). (See Fig. 2)
3. Unbolt the fastener (13mm head) retaining the steering shaft to the universal joint and separate the joint. (See Fig. 3)
4. Loosen and remove the eight nuts (13mm head) securing the drivers side manifold to the engine. Disconnect two oxygen sensor harness connections and remove the drivers side manifold. (See Fig. 4)
5. Remove all eight mounting studs from the engine using a 5mm socket or appropriate size star socket. Clean threads using a M10 x 1.25 tap. (See Fig. 5)

**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.*

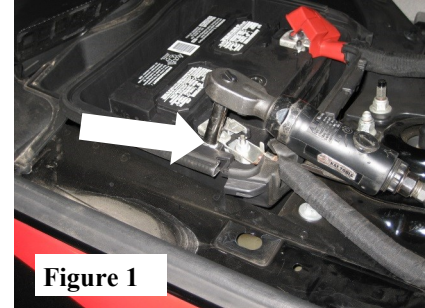


Figure 1

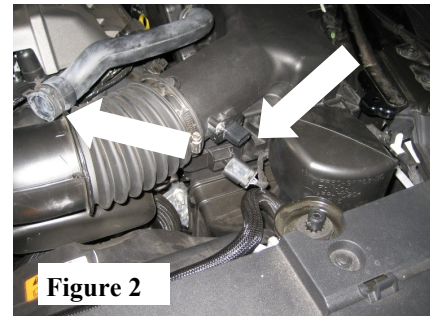


Figure 2

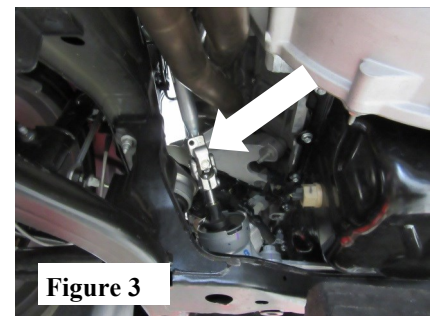


Figure 3

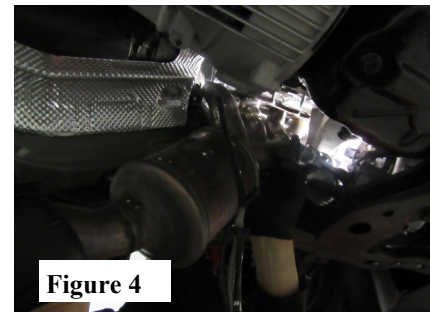


Figure 4

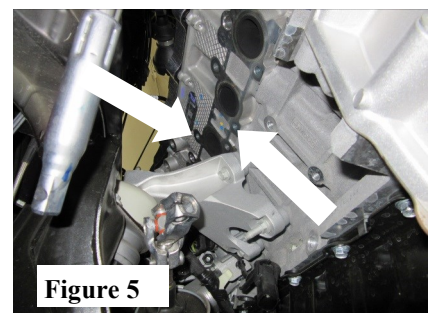


Figure 5

**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.**

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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.

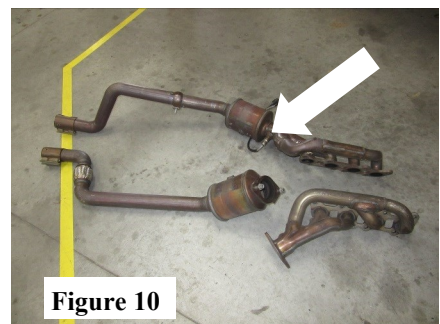
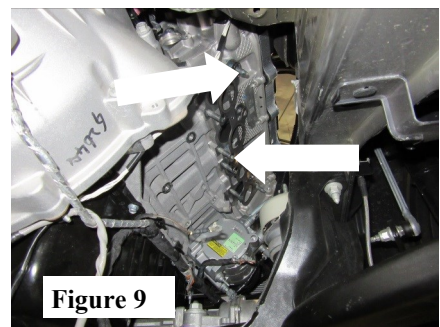
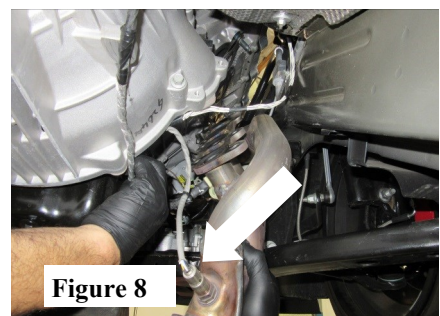
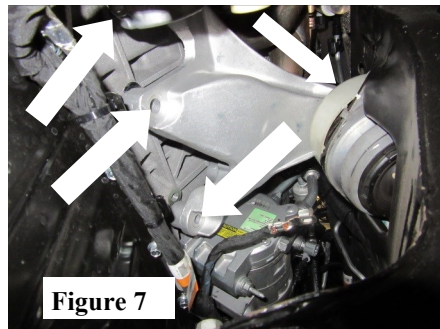
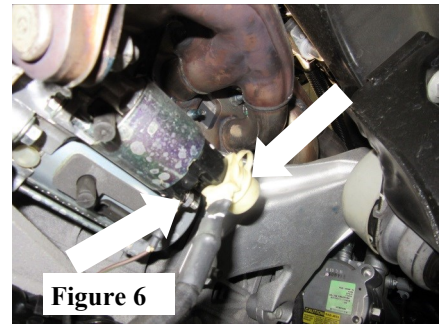
*Note: Before removing the original exhaust system from your vehicle, please compare the parts you have received with the bill of materials provided on the previous page to assure that you have all the parts necessary for the installation of your new Borla Performance Exhaust System.*

*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 Header System Removal

6. Disconnect wiring to the starter and remove the starter by removing three (10mm head) bolts. (See Fig. 6)
7. Support engine in a manner that will not damage the oil pan as the engine must be lifted slightly to remove the passenger side engine mount bracket. Once supported, remove four bolts (13mm head) securing the passenger side engine mount bracket to the engine and rubber isolator. (See Fig. 7)
8. Remove eight nuts (13mm head) securing the passenger side manifold to the engine. Unthread the upstream oxygen sensor from the manifold and disconnect the downstream sensor from the wire harness. Remove passenger side manifold from the vehicle. (See Fig. 8)
9. Remove all eight mounting studs from the engine using a 5mm socket or appropriate size star socket. Clean threads using a M10 x 1.25 tap. (See Fig. 9)
10. Remove all remaining oxygen sensors. Note the positions of the sensors so they can be reinstalled in their original positions. (See Fig. 10)

**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.**



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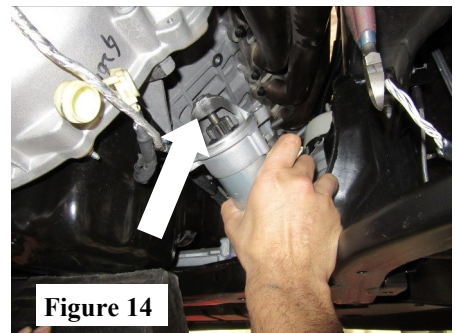
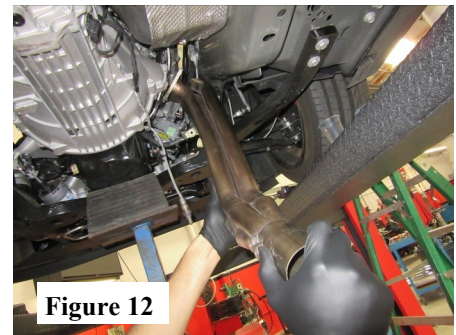
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## Header System Installation

11. Inspect headers for signs of damage during transit. (See Fig. 11)
12. Position passenger side header in place and start all eight bolts. Tighten header bolts down to 18ft.lbs. Then tighten them all to 26ft.lbs. (See Fig. 12)
13. Place engine mount bracket back into position and replace fasteners. Tighten all four fasteners to 41ft.lbs (See Fig. 13)
14. Install starter and replace fasteners. Tighten all three fasteners to 17ft.lbs (See Fig. 14)
15. Position driver side header in place and start all eight bolts.
16. Preliminary tighten header bolts to 18ft.lbs., then apply final torque to 26ft.lbs. (See Fig. 15)



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## Header System Installation

17. Replace steering shaft to universal joint and reinstall fastener. Torque to 25 ft.lbs. (See Fig. 16)
18. Inspect oxygen sensor cables and note that there are two different lengths. (See Fig. 17)
19. Install the shorter length wire extension on the drivers side front sensor and the longer wire on the passenger side front sensor. The two rear oxygen sensors do not require extensions. Reconnect all oxygen sensors to the factory wire harness. (See Fig. 18)
20. These headers are designed to work with Borla part #140629 or 140630 cat-backs. There are optional adapter tubes available that will allow the headers to work with the OEM, Borla 2.5", or other aftermarket 2.5" exhausts (Part #60566 shown in Fig. 19)
21. The adapter tubes are installed using the supplied clamps. (See Fig. 20)

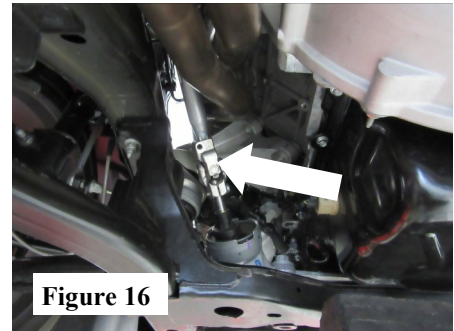


Figure 16

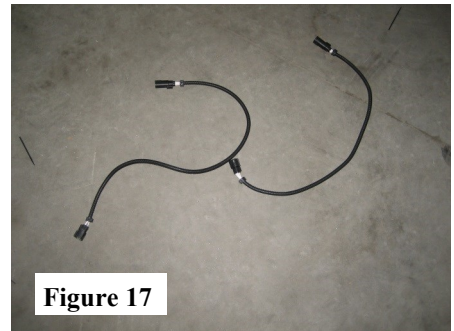


Figure 17

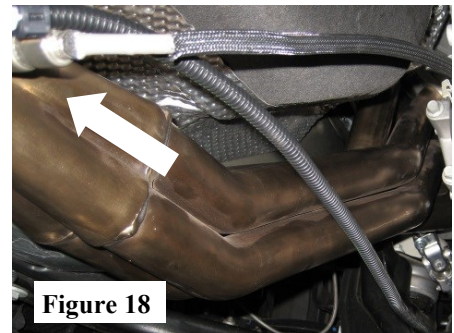


Figure 18



Figure 19

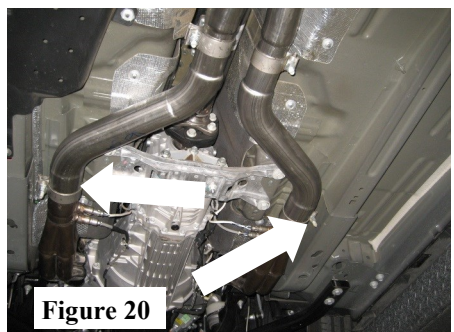


Figure 20

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## Header System Installation

22. Place lower portion of the air cleaner assembly back in the vehicle and install retaining bolt (10mm head). Torque to 8ft.lbs. (See Fig. 21)
23. Place upper portion of air cleaner assembly back in vehicle. Seat intake tube and tighten hose clamp. Install sensor harness connector and re-connect acoustic tube. (See Fig. 22)
24. Connect ground cable to battery. (See Fig. 23)

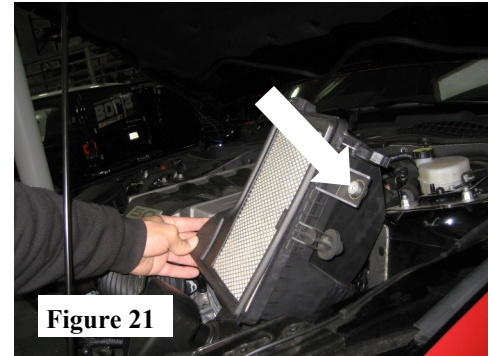


Figure 21

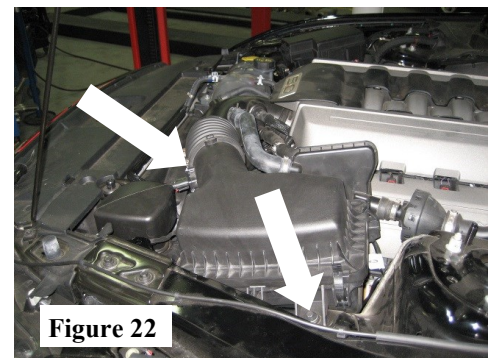


Figure 22

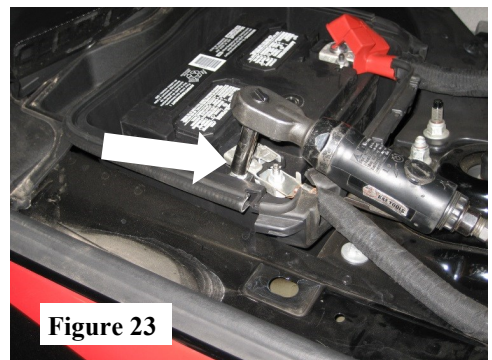


Figure 23



Figure 24