

Installation for Subaru WRX PN-17294



******* 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 Header System.

Borla Performance Header System (PN-17294) is designed for the Subaru Impreza WRX equipped with a 2.0L Turbo engine, automatic or manual transmissions.

LEGAL ONLY FOR RACING VEHICLES THAT MAY NEVER BE USED, OR REGISTERED, OR LICENSED FOR USE, UPON A HIGHWAY.

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 Header 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 Header System.

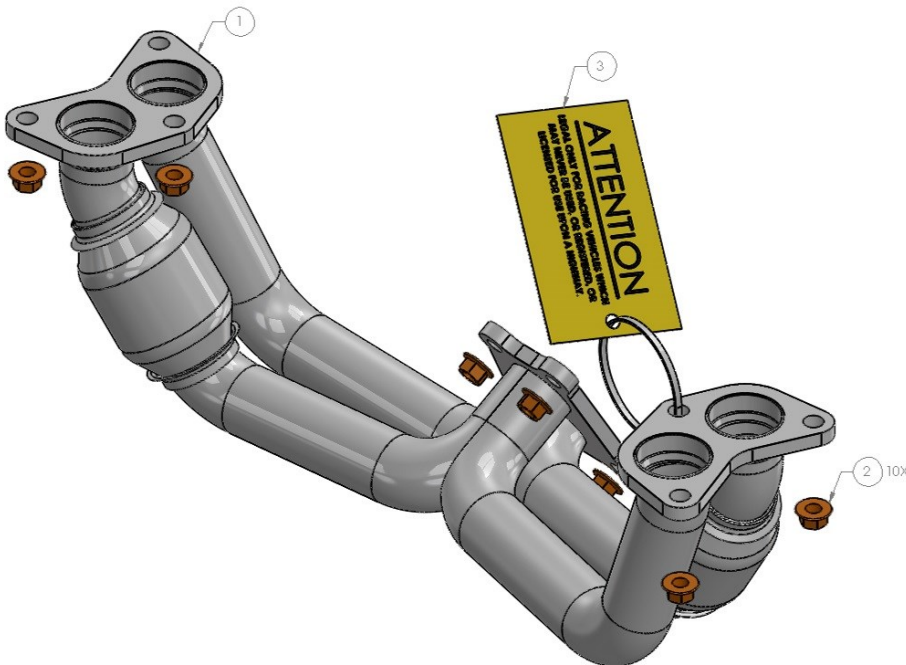
Borla Performance Industries assumes no responsibility for damages occurring from misuse, abuse, improper installation, improper operation, lack of responsible care, or all previously stated reasons resulting from incompatibility with other manufacturer's products and/or systems.

Minimum Required Tool List:

TOOLS:

1. 3/8" Drive Ratchet
2. 3/8" Drive Extension 3"
3. 18mm Socket
4. 17mm end Wrenches
5. 15mm Deep Well Socket
6. 13mm Socket
7. 10mm Socket
8. Pry Bar
9. 15mm Crowfoot Wrench

SHOP SUPPLIES:



17294

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	56618	HEADER ASSEMBLY
2	10	93034	COPPER NUT: LOCK, FLANGE, HXHD, M10 X 1.25P
3	1	96240	OFF HIGHWAY USE ONLY DISCLAIMER

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

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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 the negative battery terminal. (See Fig. 1)
2. Remove upper turbo mounting bolt while vehicle is still on the ground. (See Figs 2&3)
3. With the vehicle in the air, remove all of the plastic fasteners that secure the lower drivetrain cover to the bottom of the car, and remove the cover. (See Fig. 4 &5)



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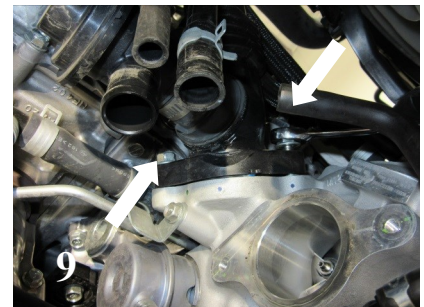
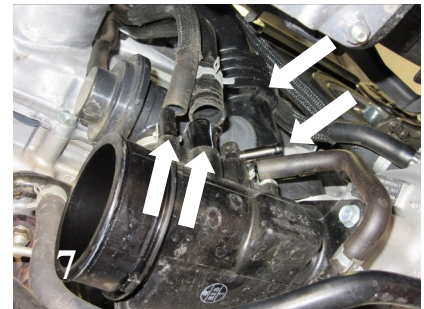
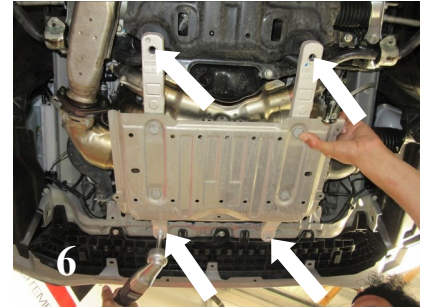
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Original Exhaust System Removal

4. Remove the 4 bolts that secure the aluminum skid-plate to the bottom of the car, and place the skid-plate aside. (See Fig.6)
5. Disconnect the inlet air pipe, boost bypass pipe, hoses, and electrical connectors on the plastic inlet manifold assembly (See Fig. 7)
6. Remove the inlet manifold assembly by loosening the (2) 10mm bolts that secure it to the turbo housing. (See Fig. 8)
7. Remove the charge air tube flange nuts. (2) 12mm nuts. (See Fig. 9)
8. Disconnect the oil supply line using two 17mm wrenches. Have a pan ready to catch oil! (See Fig 10)



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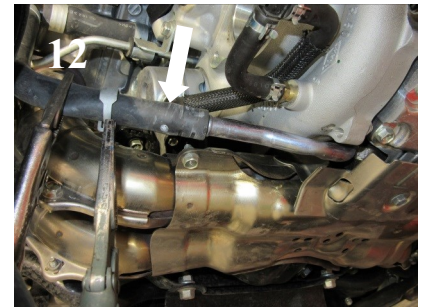
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Original Exhaust System Removal

9. Disconnect the lower coolant and oil lines. It is not necessary to pinch them off as shown, but will prevent residuals form draining. (See Fig 11 & 12))
10. Disconnect the two upper hoses from the turbo and pinch them off. Those lines will continuously drain and must be blocked. (See Fig. 13)
11. Disconnect the ground wire from the turbo bracket and exhaust using a 10mm wrench (See Fig. 14)
12. Disconnect the upstream (black) and downstream (green) oxygen sensor connectors. (See Fig. 15)



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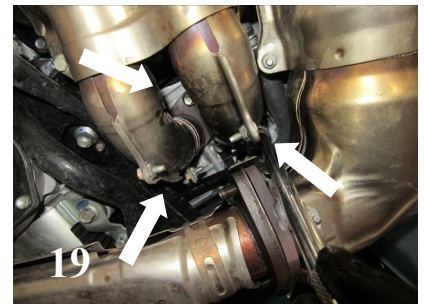
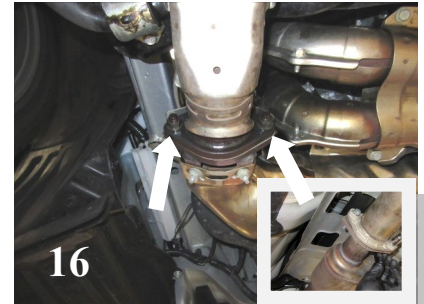
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Original Exhaust System Removal

13. Remove the exhaust mid section by unbolting the 14mm bolts on the flanges at both ends and the hanger bolt located mid way. (See Figs. 16 & 17)
14. Remove 14mm support bracket bolt. (See Fig. 18)
15. Remove (6) 14mm cylinder head mounting nuts. Remove header and turbo together as an assembly. (See Figs. 19 & 20)



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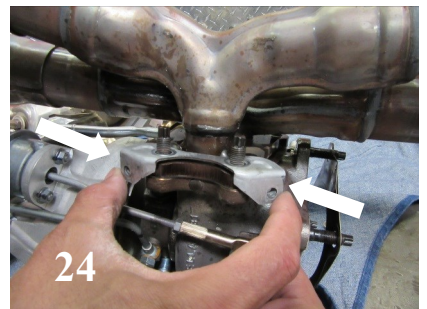
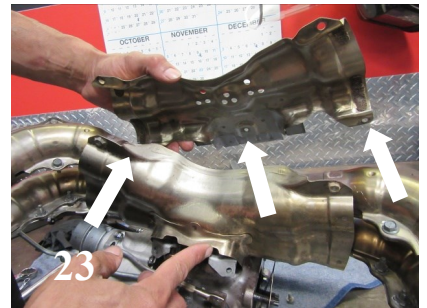
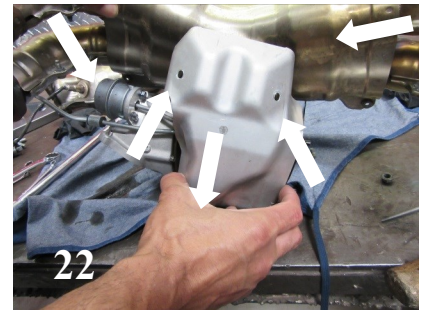
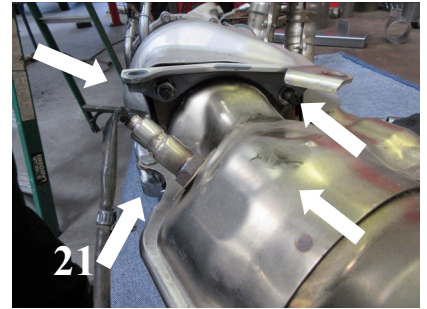
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Original Exhaust System Removal

16. Disconnect the catalytic converter and turbo mounting bracket by removing four 14mm nuts as shown. (See Fig. 21)
17. Remove three 10mm fasteners that retain the heat shield to the top side of the turbocharger then place the shield aside. (See Fig. 22)
18. Remove five 10mm fasteners that retain the heat shields to exhaust manifold then remove the two shield halves. (See Fig. 23)
19. Remove the four 14mm nuts that secure the manifold to the turbocharger. Note the correct orientation of the shield mounting bracket upon removal, failure to do so will require disassembly later. (See Fig. 24)
20. The manifold and turbocharger are now separated and you are ready to install the Borla header. (See Fig. 25)



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Borla Performance Header System Installation

21. Bolt Borla header to turbo making sure that gasket is installed between the mating surfaces. (See Figs. 26 & 27)
22. Reinstall heat shield using the fasteners and bracketry removed in step 17. Pay close attention to the orientation of the mounting bracket.
23. Reinstall the catalytic converter using the mounting bracket and nuts removed in step 16.
24. Install header + turbo assembly to vehicle. Reconnect all hoses and brackets on turbo. Torque to factory specs. (See Figs. 28-34).

NOTE: Tighten the both left and right middle header nut using 15mm Crowfoot wrench before front and rear nuts. (See Fig. 30)



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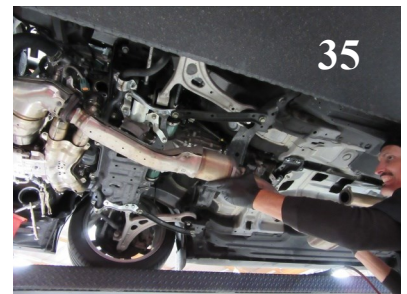
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Borla Performance Header System Installation

25. Reinstall mid-pipe on to vehicle using the same fasteners removed in step 13. (See Fig. 35)



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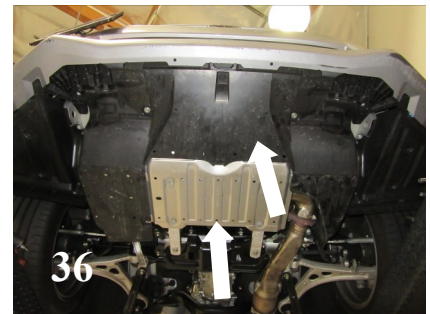
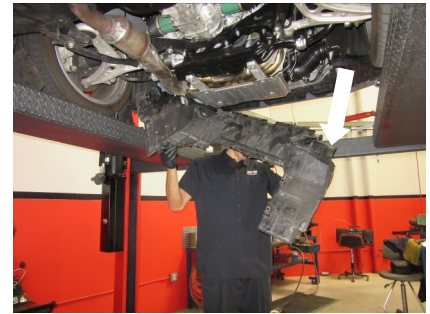
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26. Reinstall lower cover and skid plate. (See Fig. 36)

27. Reconnect Battery. (See Fig. 37)

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