

Installation Guide for Jeep Grand Wagoneer L PN: 140976



******* 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 Cat-Back™ exhaust system.

Borla Performance Cat-Back™ exhaust system PN 140976 is designed for the Jeep Grand Wagoneer L, equipped with a 3.0L inline-6 turbo-charged engine and AWD automatic transmission.

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:

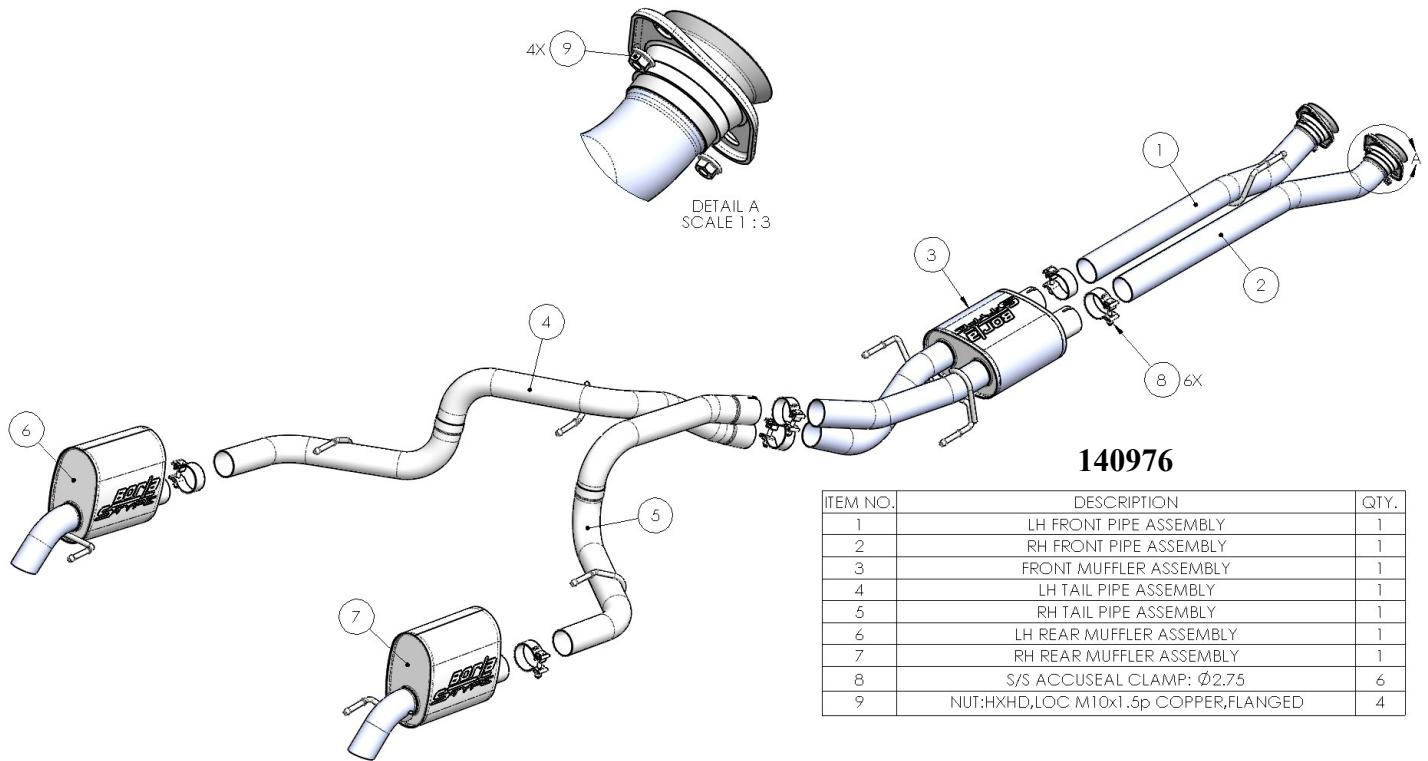
TOOLS:

1. 3/8" drive ratchet
2. 3/8" drive extension 6"
3. 10mm deep well socket
4. 13mm deep well socket
5. 15mm deep well socket
6. Pry bar

SHOP SUPPLIES:

1. Spray lubricant

Borla Performance - Bill of Materials



140976

ITEM NO.	DESCRIPTION	QTY.
1	LH FRONT PIPE ASSEMBLY	1
2	RH FRONT PIPE ASSEMBLY	1
3	FRONT MUFFLER ASSEMBLY	1
4	LH TAIL PIPE ASSEMBLY	1
5	RH TAIL PIPE ASSEMBLY	1
6	LH REAR MUFFLER ASSEMBLY	1
7	RH REAR MUFFLER ASSEMBLY	1
8	S/S ACCUSEAL CLAMP: Ø2.75	6
9	NUT:HXHD,LOC M10X1.5p COPPER,FLANGED	4

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.*

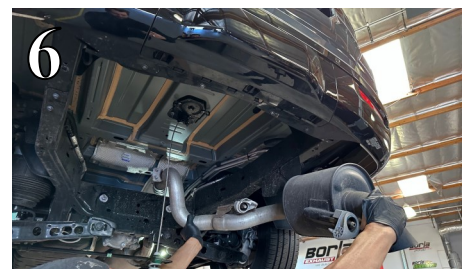
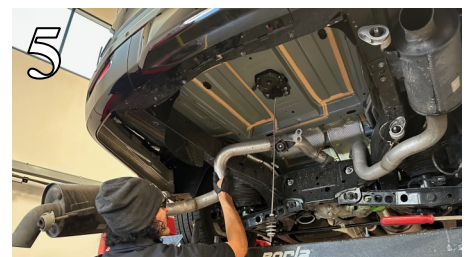
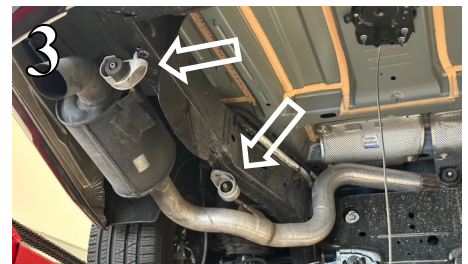
Taking all under car safety precautions, lift the vehicle using a hoist or hydraulic lift. Once this has been done, you may begin the removal of your old exhaust system from your vehicle.

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.*

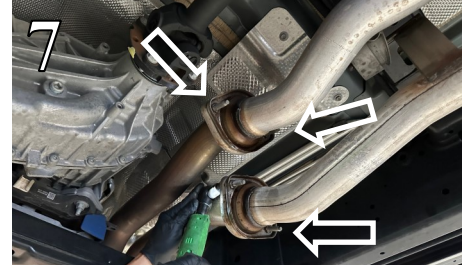
Original Exhaust System Removal

1. Lubricate all hangers, rubber isolators, bolts and nuts.
2. Lower and remove the spare tire and remove the hardware connecting the heatshield to the vehicle and remove the heatshield (Fig. 1). Save hardware for reinstallation.
3. Loosen and remove the hardware attaching the tailpipe assembly rubber isolator assembly to the vehicle and remove the isolator assembly from the vehicle (Fig. 2). Save hardware and isolator assembly for installation of your Borla system.
4. Loosen and remove the hardware attaching the driver side tailpipe assembly isolators to the vehicle (Fig. 3). Save hardware and isolator assemblies for installation of your Borla system.
5. Move forward on the vehicle and loosen the clamps connecting the tailpipe assemblies to the muffler assembly (Fig. 4).
6. Remove the driver side tailpipe assembly from the vehicle (Fig 5).
7. Loosen and remove the hardware attaching the passenger side tailpipe assembly isolators to the vehicle and remove the tailpipe assembly from the vehicle (Fig. 6). Save hardware and isolator assemblies for installation of your Borla system.



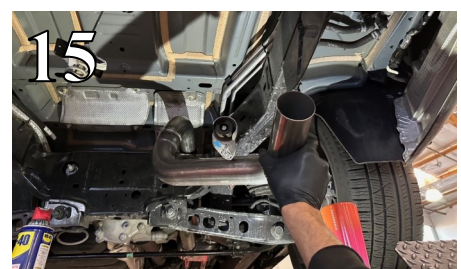
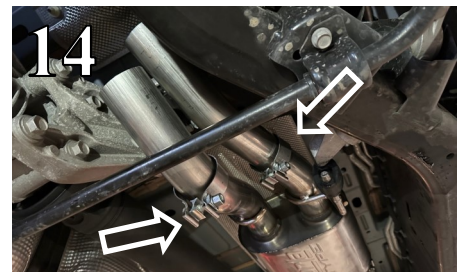
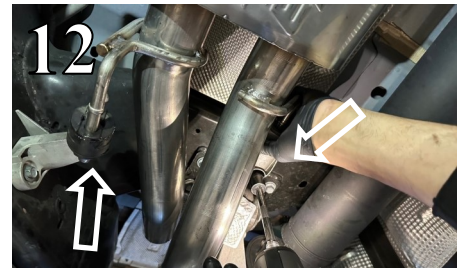
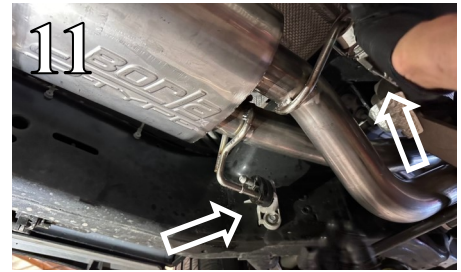
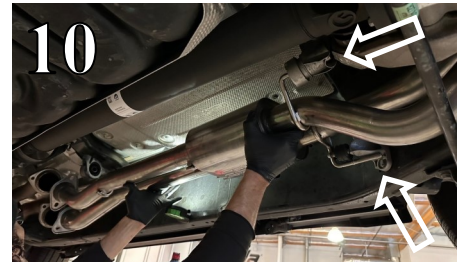
Original Exhaust System Removal Cont'd

8. Loosen and remove the hardware attaching the muffler assembly to the vehicle (Fig. 7). Save hardware for installation of your Borla system.
9. Loosen and remove the hardware attaching the muffler assembly rubber isolator assembly to the vehicle and remove the isolator assembly from the vehicle (Fig. 8). Save hardware and isolator assembly for installation of your Borla system.
10. Using a flathead screwdriver or a prybar, remove the muffler assembly hanger from the rubber isolator and remove the muffler assembly from the vehicle (Fig. 9).
11. Original exhaust system removed.



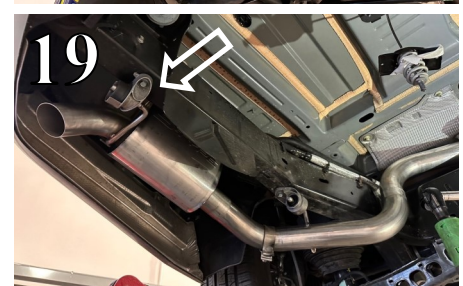
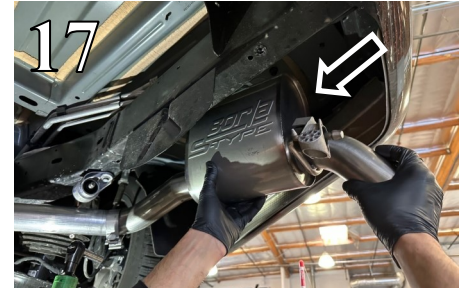
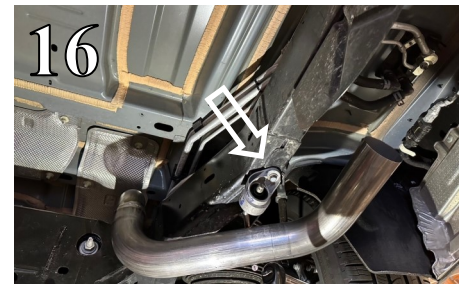
Borla Performance Cat-Back™ Exhaust System Installation

1. Orient components on shop floor according to Borla bill of materials drawing on page 2.
2. Place clamps over the expanded ends of the **Front Muffler Assembly** and insert the inlets to the corresponding **L/H** and **R/H Front Pipe Assemblies** (Fig. 10). Do not tighten the clamps.
3. Place the original isolator assembly onto the corresponding hanger on the **Front Muffler Assembly**. Then install the entire **Front Muffler Assembly** by mating the flanges to the vehicle. Loosely tighten the original hardware to the provided hardware on the flange and insert the hanger into the original rubber isolator. Reattach the isolator assembly to the vehicle using the original hardware (Figs. 11-13).
4. Place a clamp over each of the outlets of the **Front Muffler Assembly** (Fig. 14).
5. Place the original isolator assembly onto the corresponding hanger on the **R/H Tail Pipe Assembly** and feed the expanded end over the suspension and insert the inlet to the **Front Muffler Assembly** (Fig. 15). Do not tighten the clamp.



Borla Performance Cat-Back™ Exhaust System Installation Cont'd

6. Reattach the original isolator assembly on the **R/H Tail Pipe Assembly** to the vehicle using the original hardware (Fig. 16).
7. Place the original isolator assembly onto the corresponding hanger on the **R/H Rear Muffler Assembly**. Place a clamp over the expanded end of the **R/H Tail Pipe Assembly** and insert the inlet to the **R/H Tail Pipe Assembly**. Reattach the original isolator assembly to the vehicle using the original hardware (Fig. 17). Do not tighten the clamp.
8. Place the original isolator assemblies onto the corresponding hangers on the **L/H Tail Pipe Assembly** and feed the expanded end over the suspension and insert the inlet to the **Front Muffler Assembly**. Reattach the original isolator assemblies to the vehicle using the original hardware (Fig. 18). Do not tighten the clamp.
9. Place the original isolator assembly onto the corresponding hanger on the **L/H Rear Muffler Assembly**. Place a clamp over the expanded end of the **L/H Tail Pipe Assembly** and insert the inlet to the **L/H Tail Pipe Assembly**. Reattach the original isolator assembly to the vehicle using the original hardware (Fig. 17). Do not tighten the clamp.
10. Reinstall the original grounding strap onto the **R/H Tail Pipe Assembly** (Fig. 20).
11. Once position has been determined to be correct, tighten the hardware on the **L/H and R/H Front Pipe Assemblies** and then tighten the Accuseal clamps to 32-35 ft. lbs.
12. Before starting your vehicle, make sure to check all wires, hoses, brake lines, body parts and tires for safe clearance from the exhaust system.
13. Start the vehicle and check for any leaks. If any leaks are found, determine cause (such as loose or incorrectly positioned clamp) and repair as necessary.



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.

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.