

Installation Guide for RAM 1500 S/O 3.0L

PNs: 141030 & 141031



******* 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 PNs 141030 and 141031 are designed for the RAM 1500 equipped with a Standard Output 3.0L inline-6 twin turbo-charged engine and automatic 2+4WD transmission.

NOTE: These Cat-Back™ systems will work with both the original tips and Borla Optional Tip PNs 60754, 60754BC, & 60754BRCB.

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. 13mm deep well socket
4. 15mm deep well socket

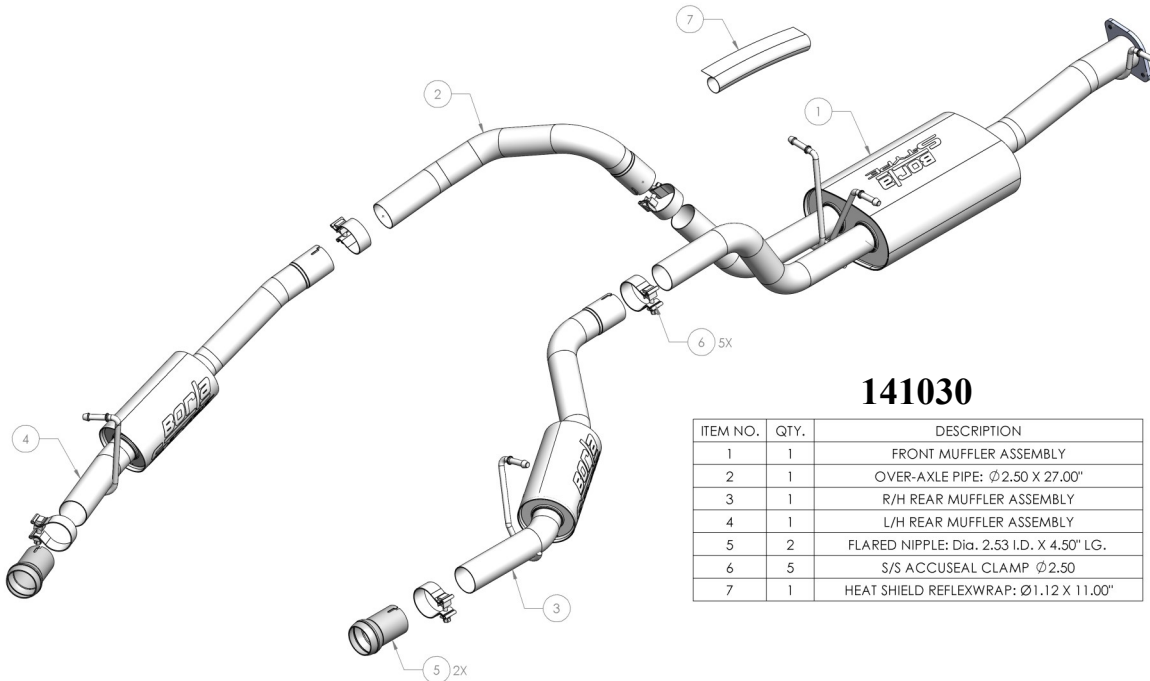
5. 16mm deep well socket

6. Pry bar

SHOP SUPPLIES:

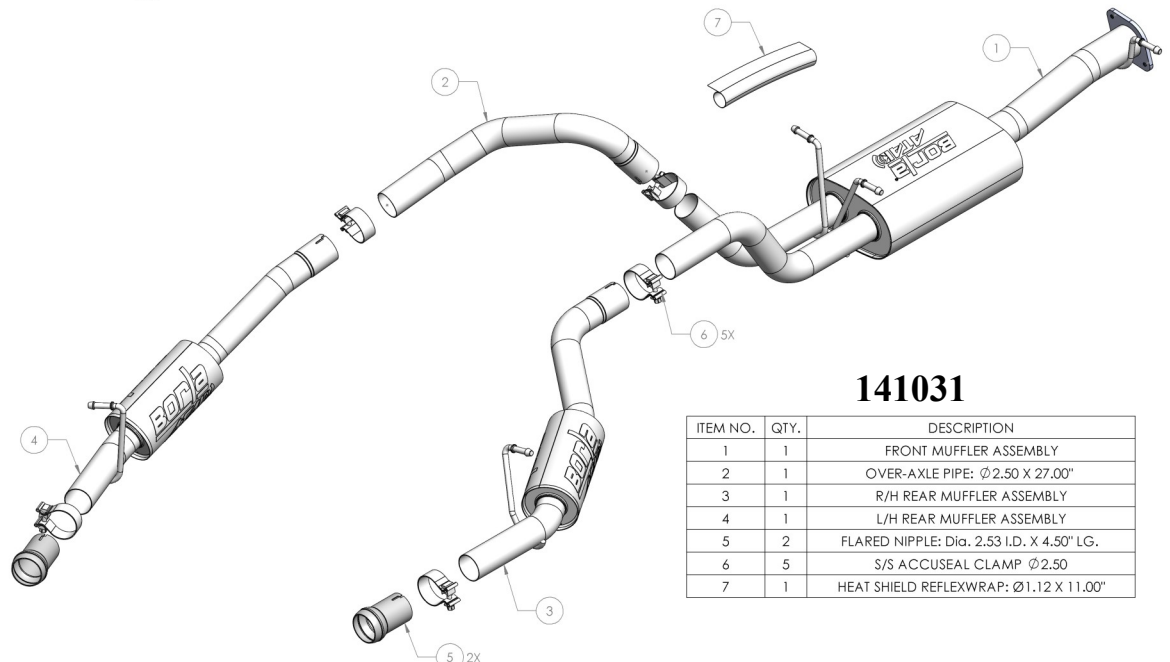
1. Spray lubricant

Borla Performance - Bill of Materials



141030

ITEM NO.	QTY.	DESCRIPTION
1	1	FRONT MUFFLER ASSEMBLY
2	1	OVER-AXLE PIPE: Ø2.50 X 27.00"
3	1	R/H REAR MUFFLER ASSEMBLY
4	1	L/H REAR MUFFLER ASSEMBLY
5	2	FLARED NIPPLE: Dia. 2.53 I.D. X 4.50" LG.
6	5	S/S ACCUSEAL CLAMP Ø2.50
7	1	HEAT SHIELD REFLEXWRAP: Ø1.12 X 11.00"



141031

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1	1	FRONT MUFFLER ASSEMBLY
2	1	OVER-AXLE PIPE: Ø2.50 X 27.00"
3	1	R/H REAR MUFFLER ASSEMBLY
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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.*

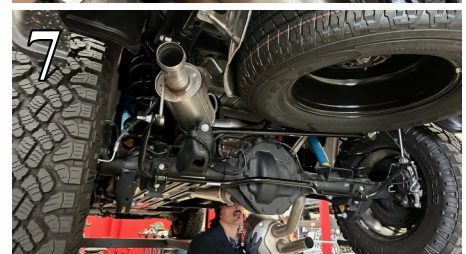
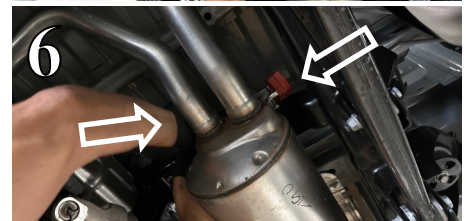
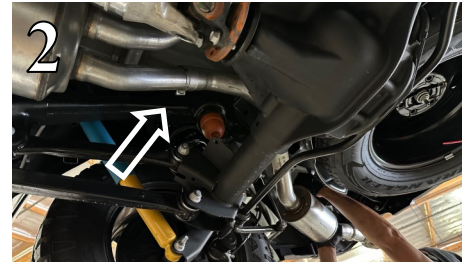
Taking all under car safety precautions, lift the vehicle using a hoist or hydraulic lift. Once this has been done, you may begin the removal of your old exhaust system from your vehicle.

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. Loosen the clamp that attaches the driver side tip assembly to the tailpipe and remove the tip assembly from the vehicle (Fig. 1).
3. Loosen the clamp that attaches the passenger side tailpipe assembly to the muffler assembly. Using a flathead screwdriver or a prybar, remove the hanger from the rubber isolator and remove the tailpipe from the vehicle (Figs. 2-3).
4. Not Shown: Remove the tip assembly from the passenger side tailpipe.
5. Loosen and remove the hardware that attaches the muffler assembly to the vehicle and unclip grounding strap from hanger. Using a flathead screwdriver or a prybar, remove the hanger from the rubber isolator (Fig.4). Save hardware for installation of your Borla system.
6. Use a muffler stand or an additional person to support the exhaust assembly. Then, using a flathead screwdriver or a prybar, remove the tailpipe assembly and muffler assembly hangers from their rubber isolators and remove the entire assembly from the vehicle (Figs. 5-7). Note: without the vehicle on a lift, you may find it easier to cut the exhaust on the driver's side close to the exit of the muffler assembly.
7. 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. Install the **Front Muffler Assembly** by mating the flange to the vehicle and loosely tighten the original hardware on the flange. Insert the hangers into their original rubber isolators and install the grounding strap onto the hanger closest to the flange (Figs. 8-9).
3. Not Shown: Install the **Heat Shield Reflexwrap** over brake lines located directly over the rear differential, closest to the **Over-Axle Pipe** (Fig. 10 Arrow).
4. Place a clamp over the expanded end of the **Over-Axle Pipe** and insert the inlet to the **Front Muffler Assembly** (Fig. 10). Do not tighten the clamp.
5. Place a clamp over the expanded end of the **L/H Rear Muffler Assembly** and insert the inlet to the **Over-Axle Pipe**. Insert the hanger into the original rubber isolator (Figs. 11-12). Do not tighten the clamp.
6. Place a clamp over the expanded end of the **Flared Nipple** and insert the inlet to the **L/H Rear Muffler Assembly** (Fig. 12). Do not tighten the clamp.
7. Place the original half moon clamp onto the inlet of the tip assembly and mate the inlet to the **Flared Nipple**. Check for alignment before tightening the clamp (Figs. 13-14).
8. Repeat Steps 4-6 for installation of the **R/H Rear Muffler Assembly**.
9. Once position has been determined to be correct, start at the front of the vehicle and tighten the original hardware on the **Front Muffler Assembly** then tighten the Accuseal clamps to 32-35 ft. lbs.
10. Before starting your vehicle, make sure to check all wires, hoses, brake lines, body parts and tires for safe clearance from the exhaust system.
11. 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.

