

## Ford Ranger PNs 140788, 140788BC



**\*\*\*\*\* 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.

**Thank you for purchasing a Borla Performance Cat-Back™ exhaust system.**

**This Borla Performance Cat-Back™ exhaust system (PNs 140788, 140788BC) is designed for the Ford Ranger, equipped with a 2.3L I4 turbocharged engine and 2WD or 4WD 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:**

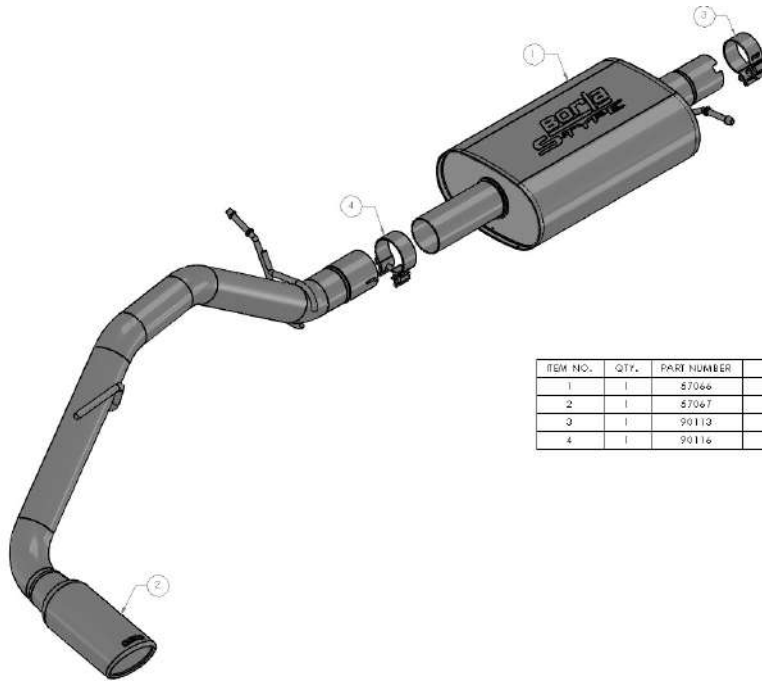
**TOOLS:**

1. 3/8" drive ratchet
2. 15mm deep well socket
3. Pry bar

**SHOP SUPPLIES:**

1. Spray lubricant

**Borla Performance - Bill of Materials**



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	87066	MUFFLER ASSEMBLY
2	1	87067	TAILPIPE ASSEMBLY
3	1	90113	3/8" ACOUSEAL CLAMP Ø2.80
4	1	90116	5/8" ACOUSEAL CLAMP Ø2.75

**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.*

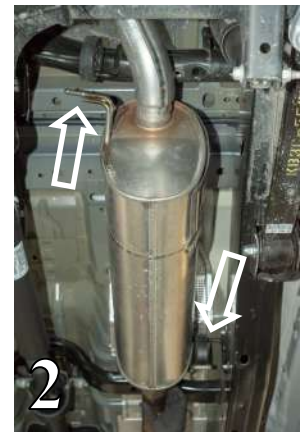
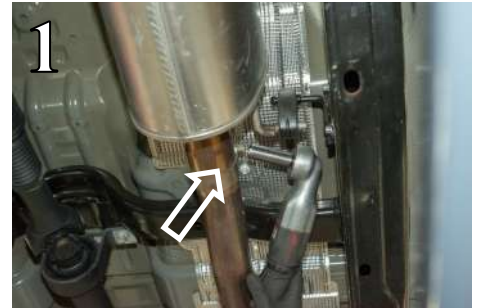
**Taking all under car safety precautions, lift the vehicle using a hoist or hydraulic lift. Once this has been done, you may begin the removal of your old exhaust system from your vehicle.**

**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.*

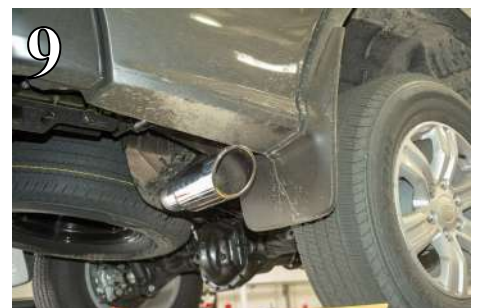
## Original Exhaust System Removal

1. Lubricate all hangers, rubber isolators, bolts and nuts.
2. Loosen the clamp on the muffler assembly (fig. 1).
3. Remove the muffler assembly hangers from their rubber isolators (fig. 2).
4. Slide the entire exhaust assembly forward to remove it from the front pipe, then bring it back over the axle (fig. 3). Use a muffler stand or an additional person if necessary.
5. Support the front pipe with a muffler stand or lift.
6. Original exhaust system removed.



## Borla Performance Cat-Back™ Exhaust System Installation

1. Orient components on shop floor according to page-2 drawing.
2. Place a clamp on the inlet of the **muffler assembly** and place the inlet over the outlet of the front pipe (fig. 5). Do not tighten the clamp.
3. Insert the **muffler assembly hanger** into its rubber isolator (fig. 6).
4. Place a clamp on the outlet of the **rear muffler assembly**.
5. Insert the **tailpipe assembly rear hanger** into its rubber isolator (fig. 7).
6. Place the inlet of the **tailpipe assembly** over the outlet of the **muffler assembly** (fig. 8).
7. Insert the **tailpipe assembly front hanger** into its rubber isolator (fig. 8).
8. Check your exhaust system for proper clearance under the vehicle and also for tip alignment. Starting at front flanges and moving to rear of vehicle, tighten flange hardware bolts. Orient position of bolt (on supplied clamps) between (not over) pipe notches and tighten to 35 ft. lbs. torque (fig. 9).
9. Align tips and tighten hardware. Loosen clamps to rotate or slide pipe for better alignment.
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 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.