

2005-2007 Porsche Cayman S Race Exhaust System Installation



Precision manufactured using aircraft quality T-304 stainless steel; this system is designed to endure years of heavy use. Installing a Borla Performance Exhaust System on your vehicle will eliminate the restrictive design of the stock exhaust, allowing your engine to discharge exhaust gas easier. The result is more horsepower and torque, longer engine life, and a distinctive throaty growl- all this, with easy bolt-on installation. These installation instructions have been written to help you in the installation of your Borla Performance Exhaust System. Please read it completely before installing your system.

THESE SYSTEMS HAVE BEEN DEVELOPED FOR RACING USE ONLY. NOT LEGAL FOR USE ON PUBLIC ROADS OR HIGHWAYS.

Thank you for purchasing a Borla Performance Cat-Back™ Race Exhaust System.

These Borla Performance Race Exhaust Systems (Part numbers 12653 & 12654 have been designed for the 2005-2007 Porsche Cayman S equipped with a 3.8L 6 cylinder engine, rear-wheel drive and a manual 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.

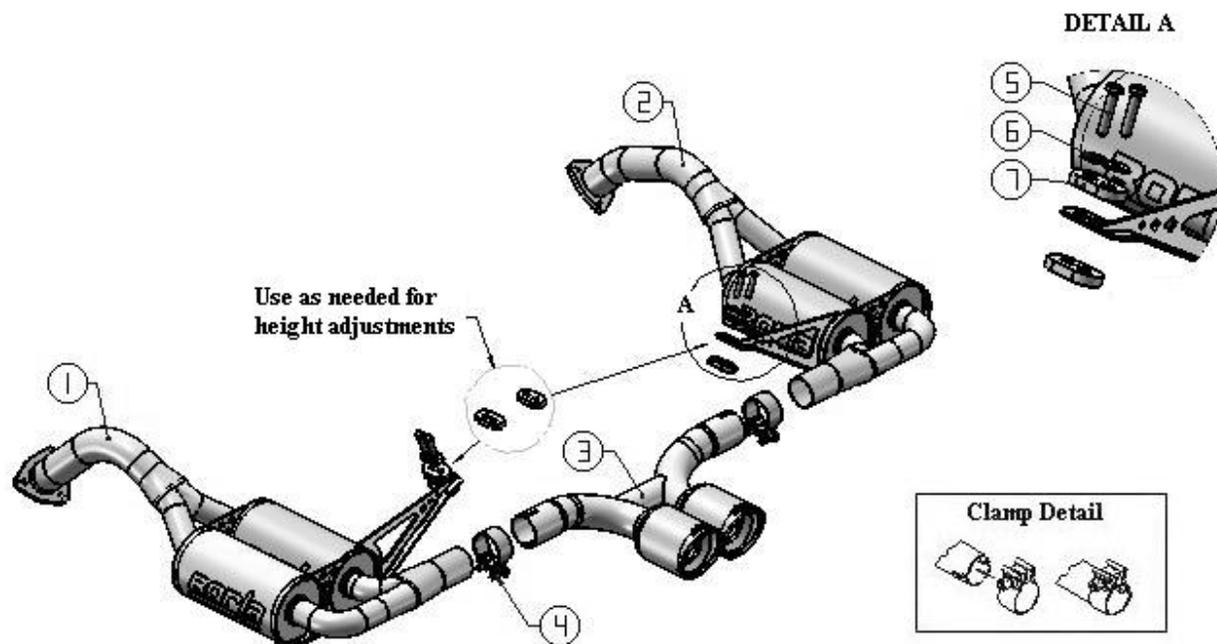
Included with your Borla Performance Exhaust System is a warranty card. Please read it carefully before you begin any work on your vehicle. If you should have any questions regarding our warranty policy, installation, or any other matter pertaining to your new Borla Performance Exhaust System, please 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 3"
- 3 13mm Socket
- 4 15mm Socket

SHOP SUPPLIES:

- 1 Spray Lubricant

Borla Performance Race Exhaust Bill of Materials**Part numbers 12653 & 12654**

1. Left muffler assembly
2. Right muffler assembly
3. Tip assembly
4. 2.25" clamp (qty 2)
5. Screw (qty 4)
6. Flat washer (qty 4)
7. Rubber Isolator (qty 6)

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 Race 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 Race Exhaust System.

Original Exhaust System Removal

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.

1. Loosen the flanges as the one shown in figure 1 located just in front of each rear catalytic converter.
2. Using a muffler stand or an additional person to hold the exhaust up into position, unbolt the exhaust system from the bracket and carefully remove the exhaust from the vehicle as shown in figure 2. Place the original hardware from the flanges and gaskets to the side for use during the installation of your new exhaust system.
3. Unbolt and remove the original bracket as shown in figure 3.
4. Remove the trim piece around the tip opening.

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

Borla Performance Race Exhaust System Installation

1. Place a clamp over the expanded ends of the tip assembly and slide the tip assembly over the left and right muffler assembly. Do not tighten the clamps.
2. Install the original gaskets into the flanges.
3. Using an additional person to help, place the exhaust system into position as shown in figure 4.
4. Install the isolators supplied placing one below and one above each bracket and the hardware as shown in figure 5. Use the two additional isolators provided for any height adjustments you feel are necessary to level the muffler assemblies
5. Using the original hardware tighten the flanges as the one shown in figure 6 to 18-22 ft. lbs. of torque.
6. Check your exhaust system for proper clearance under the vehicle and also for tip alignment.
7. Once position has been determined to be correct, tighten the clamps to 32-35 ft. lbs. making sure the clamp openings are not over any of the notches in the pipes.
7. Before starting your vehicle, make sure to check all wires, hoses, brake lines, body parts and tires for safe clearance from the exhaust system.
8. 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.
9. Re install the trim piece for the tip opening as shown in figure 7.

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.



Figure 4



Figure 5



Figure 6



Figure 7