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› Borla 140727 Cat-Back System User Manual

Borla 140727

Borla 140727 Cat-Back System User Manual

Model: 140727

Brand: Borla

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Borla 140727 Cat-Back Exhaust System. Designed specifically for the 2017-2023 Chevrolet Camaro ZL1 6.2L V8 with automatic or manual transmission and NPP (dual mode exhaust), this system delivers the classic Borla sound and performance.

Key features of this system include:

- T-304 Stainless Steel construction for durability.
- Bolt-on installation (requires cutting of the Original Equipment system).
- All welded construction for robust performance.
- Manufactured in the USA.
- Engineered to produce the classic BORLA sound.

Note: This system is NOT recommended for convertibles.

2. SAFETY INFORMATION

Always prioritize safety when working on your vehicle. Failure to follow safety precautions can result in serious injury or damage to the vehicle.

- Ensure the vehicle is securely lifted and supported on a stable surface (e.g., a professional lift or jack stands) before beginning any work.
- Allow the exhaust system to cool completely before touching any components to prevent burns.
- Wear appropriate personal protective equipment, including safety glasses, gloves, and hearing protection.
- Work in a well-ventilated area.
- Be aware that installation REQUIRES cutting the Original Equipment (O.E.) exhaust system. Use

appropriate cutting tools and follow manufacturer guidelines for their safe operation.

- Keep all tools and equipment in good working condition.
- If you are unsure about any step of the installation process, consult a qualified automotive technician.

3. COMPONENTS OVERVIEW

The Borla 140727 Cat-Back System includes all necessary pipes, mufflers, and hardware for a complete installation. Below is an illustration of the system components.



Figure 3.1: Exploded view of the Borla 140727 Cat-Back Exhaust System, showing all pipes, mufflers, and connection clamps. This image illustrates how the various sections of the exhaust system fit together before installation on the vehicle.

4. SETUP AND INSTALLATION

Installation of the Borla 140727 Cat-Back System requires mechanical aptitude and specific tools. Professional installation is recommended.

4.1. Pre-Installation Steps

1. Park the vehicle on a level surface and engage the parking brake.
2. Allow the exhaust system to cool completely.
3. Lift the vehicle safely using a hoist or jack stands, ensuring it is stable.
4. Locate the factory exhaust system.

4.2. Removing the Original Equipment (O.E.) System

1. Identify the cutting points on the O.E. exhaust system as per the detailed instructions provided with your Borla system packaging. This step is crucial and requires precise measurement and cutting.
2. Carefully cut the O.E. exhaust system at the marked locations.
3. Unbolt and remove the remaining sections of the O.E. exhaust system from the vehicle, including hangers and connections to the catalytic converters.

4.3. Installing the Borla Cat-Back System

1. Begin by loosely fitting the front sections of the Borla system to the catalytic converters, using the provided clamps or hardware.
2. Connect the mid-pipes and X-pipe assembly, ensuring proper alignment.
3. Attach the muffler assemblies and tailpipes, guiding them through the factory hangers.
4. Ensure all components are properly seated and aligned, paying close attention to clearances around the driveshaft, suspension, and body.
5. Once the entire system is loosely assembled and aligned, begin tightening all clamps and bolts, working from front to back. Ensure all connections are secure but do not overtighten.
6. Double-check all connections and clearances.



Figure 4.1: Rear view of a Chevrolet Camaro ZL1 showcasing the Borla Cat-Back Exhaust System installed, highlighting the exhaust tips and overall fitment under the vehicle's rear bumper.

5. OPERATING CHARACTERISTICS

The Borla 140727 Cat-Back System is designed to enhance the exhaust note of your Chevrolet Camaro ZL1. This system is compatible with the factory NPP (dual mode exhaust) functionality, allowing for dynamic sound control.

When the NPP system is active, the exhaust valves will open and close based on driving mode and engine RPM, providing a versatile sound experience ranging from a more subdued tone to the aggressive, classic Borla sound.

Expect a deeper, more aggressive exhaust note compared to the stock system, particularly under acceleration. The T-304 stainless steel construction ensures optimal exhaust flow and durability.

6. MAINTENANCE

Your Borla Cat-Back System is constructed from high-quality T-304 stainless steel, requiring minimal maintenance.

- **Cleaning:** To maintain the appearance of the polished stainless steel, clean the exhaust tips and visible sections with a mild automotive cleaner and a soft cloth. Avoid abrasive cleaners or harsh chemicals.
- **Periodic Inspection:** Regularly inspect the entire exhaust system for any signs of damage, loose connections, or leaks. Check all clamps, hangers, and welds. Address any issues promptly to ensure optimal performance and longevity.
- **Corrosion:** While T-304 stainless steel is highly resistant to corrosion, exposure to road salt and harsh chemicals can affect its appearance over time. Regular cleaning, especially in winter months, is recommended.

7. TROUBLESHOOTING

If you encounter any issues with your Borla Cat-Back System, refer to the following common troubleshooting tips:

Problem	Possible Cause	Solution
Rattling or Vibration	Exhaust system touching chassis/components; loose hangers or clamps.	Check for proper clearances. Adjust hangers or tighten clamps. Ensure all bolts are secure.
Exhaust Leak	Loose clamps; improperly seated pipes; damaged gasket (if applicable).	Inspect all connections. Tighten clamps. Re-seat pipes. Replace any damaged gaskets.
Unusual Noise (other than expected exhaust note)	Foreign object in system; internal muffler damage; improper installation.	Inspect the system for debris. If noise persists, consult a professional. Verify all components are installed correctly.

If the problem persists after attempting these solutions, please contact Borla customer support or a certified automotive technician.

8. SPECIFICATIONS

Property	Value
Brand	Borla
Model Number	140727
Item Weight	82 pounds
Product Dimensions	49 x 30 x 16 inches
Material	T-304 Stainless Steel
Compatibility	2017-2023 Chevrolet Camaro ZL1 6.2L V8 Auto./Manual Trans. With NPP (dual mode exhaust). Not Recommended For Convertibles.
Installation Type	Bolt-on (requires cutting O.E. system)
Manufacturing Location	USA

9. WARRANTY AND SUPPORT

Borla Performance Industries stands behind the quality and craftsmanship of its products. Your Borla Cat-Back System is covered by a manufacturer's warranty against defects in materials and workmanship.

For detailed warranty terms and conditions, or for technical support and inquiries, please refer to the official Borla website or contact Borla customer service directly. Keep your proof of purchase for warranty claims.

Borla Performance Industries Contact: Please visit www.borla.com for the most current support information.