

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-276-3
Relating to Exemptions Under Section 27156
of the Vehicle Code

BORLA PERFORMANCE INDUSTRIES
CHRYSLER CORPORATION EXHAUST HEADER SYSTEMS

Pursuant to the authority vested in the Air Resources Board by Section 27156 of the Vehicle Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-5;

IT IS ORDERED AND RESOLVED: That the installation of the Chrysler Corporation Exhaust Header systems, manufactured by Borla Performance Industries of 5901 Edison Drive, Oxnard, California 93033, has been found not to reduce the effectiveness of the applicable vehicle pollution control system and, therefore, is exempt from the prohibitions of Section 27156 of the Vehicle Code for the installation on the following Chrysler Corporation motor vehicles:

<u>Part Number</u>	<u>Model Year</u>	<u>Vehicle Model</u>	<u>Engine Size</u>
17010	1987-90	Cherokee\Comanche\Wrangler	4.0 liter
17019	1991-92	Wrangler	4.0 liter
17020	1991-92	Cherokee\Comanche	4.0 liter
17026	1993-94	Grand Cherokee	4.0 liter
17033	1993-94	Grand Cherokee	5.2 liter
17034	1993-94	Wrangler	4.0 liter
17039	1993-94	Cherokee	4.0 liter
17040	1994	Ram T300	5.2 liter
17041	1994	Ram T300	5.9 liter
17042	1993-94	Dakota	5.2 liter
17049	1994-95	Ram T300	8.0 liter

This Executive Order is valid provided that installation instructions for the Borla Chrysler Corporation Exhaust Header systems will not recommend tuning the vehicle to specifications different from those of the vehicle manufacturer.

Changes made to the design or operating conditions of the device, as exempt by the Air Resources Board, which adversely affect the performance of a vehicle's pollution control system shall invalidate this Executive Order.

Marketing of this device using any identification other than that shown in this Executive Order or marketing of the device for an application other than those listed in this Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board.

This Executive Order does not constitute any opinion as to the effect that the use of this device may have on any warranty either expressed or implied by the vehicle manufacturer.

THIS EXECUTIVE ORDER DOES NOT CONSTITUTE A CERTIFICATION, ACCREDITATION, APPROVAL, OR ANY OTHER TYPE OF ENDORSEMENT BY THE AIR RESOURCES BOARD OF CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF BORLA PERFORMANCE INDUSTRIES' CHRYSLER CORPORATION EXHAUST HEADER SYSTEMS.

No claim of any kind, such as "Approved by the Air Resources Board" may be made with respect to the action taken herein in any advertising or other oral or written communication.

Violation of any of the above conditions shall be grounds for revocation of this order. The order may be revoked only after ten day written notice of intention to revoke the order, in which period the holder of the order may request in writing a hearing to contest the proposed revocation. If a hearing is requested, it shall be held within ten days of receipt of the request and the order may not be revoked until a determination after hearing that grounds for revocation exist.

Executed at El Monte, California, this 19th day of December, 1994.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

Original

State of California
AIR RESOURCES BOARD

EVALUATION OF THE BORLA PERFORMANCE INDUSTRIES
CHRYSLER CORPORATION EXHAUST HEADER SYSTEMS
FOR EXEMPTION FROM THE PROHIBITIONS OF VEHICLE CODE
SECTION 27156 IN ACCORDANCE WITH SECTION 2222,
TITLE 13, OF THE CALIFORNIA CODE OF REGULATIONS

December 1994

State of California
AIR RESOURCES BOARD

EVALUATION OF THE BORLA PERFORMANCE INDUSTRIES
CHRYSLER CORPORATION EXHAUST HEADER SYSTEMS
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SECTION 27156 IN ACCORDANCE WITH SECTION 2222,
TITLE 13, OF THE CALIFORNIA CODE OF REGULATIONS

by

Mobile Source Division
9528 Telstar Avenue
El Monte, CA 91731-2990

(This report has been reviewed by the staff of the California Air Resources Board and approved for publication. Approval does not signify that the contents necessarily reflect the views and policies of the Air Resources Board, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.)

SUMMARY

Borla Performance Industries of 5901 Edison Drive, Oxnard, California, 93033, has applied for an exemption from the prohibitions in Section 27156 of the California Vehicle Code (VC) for their Chrysler Corporation Exhaust Header systems. The Exhaust Header systems are designed for installation on the following Chrysler Corporation motor vehicles:

<u>Part Number</u>	<u>Model Year</u>	<u>Vehicle Model</u>	<u>Engine Size</u>
17010	1987-90	Cherokee\Comanche\Wrangler	4.0 liter
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17042	1993-94	Dakota	5.2 liter
17049	1994-95	Ram T300	8.0 liter

Based on the results from emission tests performed at an independent laboratory on a 1994 Dodge Ram T300 light duty truck, the staff concludes that Borla Performance Industries' Chrysler Corporation Exhaust Header systems will not adversely affect exhaust emissions from vehicles for which an exemption is requested.

The staff recommends that Borla Performance Industries be granted an exemption as requested and that Executive Order D-276-3 be issued.

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I. INTRODUCTION

Borla Performance Industries of 5901 Edison Drive, Oxnard, California 93033, has applied for an exemption from the prohibitions in Section 27156 of the California Vehicle Code (VC) for their Chrysler Corporation Exhaust Header systems. The Exhaust Header systems are designed for installation on the following Chrysler Corporation motor vehicles:

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Borla Performance Industries has submitted test data from a 1994 Dodge Ram T300 light duty truck equipped with a 5.2L engine tested at Environmental Testing Corporation, Orange, California.

II. CONCLUSION

Based on the results from emission testing performed at Environmental Testing Corporation on a 1994 Dodge Ram T300 light duty truck, the staff concludes that Borla Performance Industries' Chrysler Corporation Exhaust Header systems will not adversely affect exhaust emissions from vehicles for which an exemption is requested.

III. RECOMMENDATION

The staff recommends that Borla Performance Industries be granted an exemption for their Chrysler Corporation Exhaust Header systems for installation on those vehicles listed above. The staff also recommends that Executive Order D-276-3 be issued.

IV. DESCRIPTION OF THE BORLA EXHAUST HEADER SYSTEMS

The Borla Chrysler Corporation Exhaust Header systems are designed for installation on Chrysler Corporation vehicles listed above. The exhaust manifold system operates in conjunction with the original equipment manufacturer's (OEM) computer controlled fuel injection system and emission control systems.

The purpose of modifying the exhaust system of the engine is to increase horsepower and torque throughout the R.P.M. range. As with the original equipment manufacturer's (OEM) exhaust system, Borla Performance Industries' Chrysler Corporation Exhaust Header system, routes exhaust gases from the engine into the catalytic converter.

The Chrysler Corporation Exhaust Header systems are manufactured using T-304 stainless steel tubing. The Exhaust Header systems utilize Borla's proprietary V-8 engine header design, except the Exhaust Header system designed for 4.0 liter equipped Jeep/Chrysler Corporation light duty trucks which utilizes a tri-y design (6 into 2 into 1). Systems include all installation hardware and pre-catalyst tubing.

Installation of Borla Performance Industries's Chrysler Corporation Exhaust Header system does not alter the OEM location of the oxygen sensor and the catalyst. The tune-up specifications also unaltered from OEM specifications.

V. DISCUSSION OF THE BORLA CHRYSLER CORPORATION EXHAUST HEADER SYSTEM

A 1994 Dodge Ram T300 light duty truck with a 5.2L fuel injected engine was used for the evaluation of the Chrysler Corporation Exhaust Header system. According to Borla Performance Industries' expected sales information, this test vehicle represents the most popular vehicle/engine application. The dynamometer inertia weight and horsepower setting, determined as the worst case vehicle loading, were 5500-lbs and 19.8-hp respectively. The emission test conducted by Environmental Testing Corporation for Borla Performance Industries consisted of one Cold CVS-75 Federal Test Procedure (FTP) in the modified (Exhaust Header system installed) configuration. The ARB did not perform any test to confirm the test results submitted by the applicant. A summary of the test results is shown below:

Exhaust Emission Test Results			
On A 1994 Dodge Ram T300 Light Duty Truck			
Exhaust Emissions (gm/mi)			
	<u>NMHC</u>	<u>CO</u>	<u>NOx</u>
Device	0.16	2.2	0.41
Standard	0.50	9.0	1.0
Difference	-0.34	-6.8	-0.59

Results from the emission test show the vehicle emissions with the Borla Chrysler Corporation Exhaust Header system installed did not exceed the test vehicle's "New Vehicle Emission Standard." Therefore, based on the test results, the staff concludes that the installation of the Borla Performance Industries's Chrysler Corporation Exhaust Header system will not have an adverse effect on exhaust emissions on the vehicles which exemption is requested.

Borla Performance Industries has submitted all the required information and fulfilled the requirements for an exemption.