

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-439
Relating to Exemptions Under Section 27156
of the Vehicle Code

PACESETTER MARKETING, INC.
SHORTY HEADERS

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-45-9;

IT IS ORDERED AND RESOLVED: That the installation of the Shorty Headers, manufactured by Pacesetter Marketing, Inc. of 4433 West Van Buren #3, Phoenix, Arizona 85043, 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 1988-97 5.7L and 1996/97 4.3L General Motors trucks as listed below.

<u>Part #</u>	<u>Year</u>
851118	88-95 5.7L w/o air inj.
851119	88-95 5.7L w/ air inj.
851120	96/97 5.7L w/ air inj.
851121	96/97 4.3L

The Shorty Headers are direct replacement exhaust headers manufactured out of 16 gage mild steel. The installation of the header utilizes the use of the stock connecting pipes and does not require the relocation of any sensor.

This Executive Order is valid provided that installation instructions for this kit will not recommend tuning the vehicles to specifications different from those of the vehicle manufacturer.

Changes made to the design or operating conditions of the devices, 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 this 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.

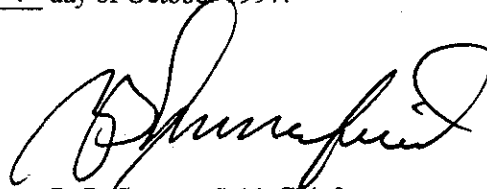
This Executive Order does not constitute any opinion as to the effect the use of the device may have on any warranty either expressed or implied by the vehicles manufacturer.

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 PACESETTER MARKETING, INC.'S SHORTY HEADERS .

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 27th day of October 1997.



R. B. Summerfield, Chief
Mobile Source Operations Division

State of California
AIR RESOURCES BOARD

EVALUATION OF PACESETTER MARKETING, INC.'S SHORTY HEADERS
FOR EXEMPTION FROM THE PROHIBITIONS OF VEHICLE CODE
SECTION 27156 IN ACCORDANCE WITH SECTION 2222, TITLE 13, OF THE
CALIFORNIA CODE OF REGULATIONS

October 1997

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AIR RESOURCES BOARD

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by

Mobile Source Operations Division
9528 Telstar Avenue
El Monte, CA 91731

(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

Pacesetter Marketing, Inc. of 4433 West Van Buren #3, Phoenix, Arizona 85043 has applied for an exemption from the prohibitions in Section 27156 of the California Vehicle Code (VC) for their Shorty Headers designed for 1988-97 5.7L and 1996/97 4.3L General Motors trucks.

Based on submitted emissions test data of the Shorty Headers, the staff concludes that Pacesetter Marketing, Inc.'s Shorty Headers will not adversely affect exhaust emissions from the vehicles for which the exemption is requested.

The staff recommends that Pacesetter Marketing, Inc. be granted an exemption as requested and that Executive Order D-439 be issued.

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I. INTRODUCTION

Pacesetter Marketing, Inc. of 4433 West Van Buren #3, Phoenix, Arizona 85043 has applied for an exemption from the prohibitions in Section 27156 of the California Vehicle Code (VC) for their Shorty Headers designed for 1988-97 5.7L and 1996/97 4.3L General Motors trucks.

II. CONCLUSIONS

Based on submitted emissions test data of the Shorty Headers, the staff concludes that Pacesetter Marketing, Inc.'s Shorty Headers will not adversely affect exhaust emissions from the vehicles for which the exemption is requested.

III. RECOMMENDATION

The staff recommends that Pacesetter Marketing, Inc. be granted an exemption for their Shorty Headers for installation on those applicable vehicles. The staff also recommends that Executive Order D-439 be issued.

IV. SHORTY HEADERS DESCRIPTION

The Shorty Headers are designed for installation on 1988-97 5.7L and 1996/97 4.3L General Motors trucks. The purpose of the device is to increase the vehicle's performance and power output by allowing more air to flow out of the engine's combustion chamber with less restrictions.

The original exhaust manifold is a one piece cast iron manifold with variable port and chamber diameters. The manufacturer claims the tube diameter of the header is constant with no bottlenecks to create back pressure; thereby enhancing exhaust flow. All other characteristics of the OEM manifold are similar including the mounting to the stock connecting pipes. The header operates in conjunction with the OEM emission control systems already certified with the stock engine. The Shorty Headers do not defeat any emission control devices required by the manufacturer nor does it alter or circumvent the vehicle's On-Board Diagnostic II system or tune-up specifications.

V. DISCUSSION OF THE SHORTY HEADERS

A 1996 Chevrolet C1500 truck with a 5.7 liter engine was used for the evaluation of the header. The dynamometer inertia weight and loading were 5500 lbs. and 14.2 hp. respectively. Emissions testing was conducted by Northern California Diagnostic Laboratory (NCDL), Napa, California.

Emissions testing conducted by NCDL consisted of one Cold-Start CVS-75 Federal Test Procedure in the modified (Shorty Headers installed) configuration. The Air Resources Board did not perform tests to confirm the test results submitted by the applicant. A summary of the test results is shown below:

Exhaust Emissions Test Results
~~On a 1997 Chevrolet Camaro~~

<u>Test Mode</u>	<u>NMHC</u>	<u>CO</u>	<u>NOx</u>
Standard	0.32	4.4	0.7
Device w/ dfs	0.20	3.0	0.4

Results from the emission tests conducted at NCDL show the vehicle emissions with the Shorty Headers installed with deterioration factors applied to be within the vehicle's emission standards. Based on the test results, the staff concludes that the installation of the Pacesetter Marketing, Inc.'s Shorty Headers will not have an adverse effect on exhaust emissions of the affected vehicles.

The evaluation of the Shorty Headers on the vehicle's OBD II system was conducted by NCDL. NCDL indicated that a scan test displayed the vehicle's readiness monitors as complete and that no diagnostic trouble code were present. An ARB staff from In-use Compliance witnessed the OBD II test at NCDL.

Pacesetter Marketing, Inc. has submitted all the required information and fulfilled the requirements for an exemption.