

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-184-6
Relating to Exemptions Under Section 27156
of the Vehicle Code

MAREMONT CORPORATION
"NEW AFTERMARKET THREE-WAY CATALYTIC CONVERTER"

WHEREAS, Vehicle Code Section 27156 and Title 13 California Code of Regulations (hereafter "CCR") Section 2222(h), authorize the California Air Resources Board (ARB) and its Executive Officer to exempt new aftermarket catalytic converters from the prohibitions of Vehicle Code Section 27156.

WHEREAS, Maremont Corporation of 250 E. Kehoe Blvd, Carol Stream, Illinois 60188, has applied to the ARB for exemption from the prohibitions of Vehicle Code Section 27156 for their new aftermarket three-way (TWC) catalytic converter for the following application:

<u>Converter Type</u>	<u>Part No.</u>	<u>Max. Engine Size</u>	<u>Max. Veh. Weight</u>
TWC	28802, 28833, 28834	5.7L (350 CID)	6,000 lbs.

WHEREAS, pursuant to the authority vested in the Executive Officer by Health and Safety Code Section 39515 and in the Chief, Mobile Source Division by Health and Safety Code Section 39516 and Executive Order G-45-5, the Air Resources Board finds that the above aftermarket catalytic converter complies with the California Vehicle Code Section 27156 and Title 13, California Code of Regulations, Section 2222(h).

IT IS HEREBY RESOLVED that the above catalytic converter is exempt from the prohibitions of Vehicle Code Section 27156 for installation on the approved application vehicles subject to the following conditions:

1. No changes are permitted to the converter as described in the application for exemption. Any changes to the converter or any of its components, applicable model year, or other factors addressed in this order must be evaluated and approved by the Air Resources Board prior to marketing in California.
2. Marketing of the converter using identifications other than those shown in the exemption application or marketing of the converter for applications other than those listed in the application catalog shall be prohibited unless prior approval is obtained from the Air Resources Board. Exemption of this product shall not be construed as an exemption to sell, offer for sale, or advertise any components of the converter as individual devices.

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3. Any oral or written references to this Executive Order or its content by Maremont Corporation, its principals, agents, employees, distributors, dealers, or other representatives must include the disclaimer that the Executive Order or the exemption it provides is not an endorsement or approval of any emissions reduction claims for the catalytic converter and is only a finding that the converter is exempt from the prohibitions of Vehicle Code Section 27156.

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 it, during 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 is made, after the hearing, that grounds for revocation exist.

Executed at El Monte, California, this 7th day of November, 1990.


R.B. Summerfield
Assistant Division Chief
Mobile Source Division

State of California
AIR RESOURCES BOARD

EVALUATION OF MAREMONT CORPORATION NEW AFTERMARKET 3-WAY CATALYTIC CONVERTER
FOR EXEMPTION FROM THE PROHIBITIONS OF VEHICLE CODE SECTION 27156
AND TITLE 13, CALIFORNIA CODE OF REGULATIONS, SECTION 2222(h)

November, 1990

EVALUATION OF MAREMONT CORPORATION NEW AFTERMARKET 3-WAY CATALYTIC CONVERTER
FOR EXEMPTION FROM THE PROHIBITIONS OF VEHICLE CODE SECTION 27156
AND TITLE 13, CALIFORNIA CODE OF REGULATIONS, SECTION 2222(h)

by

Mobile Source Division

State of California
AIR RESOURCES BOARD
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

Maremont Corporation (Maremont) of 250 E. Kehoe Blvd, Carol Stream, Illinois 60188, has applied for an exemption for their new aftermarket three-way catalytic converter under the California regulations for new aftermarket catalytic converters. Maremont plans to use the catalytic converter on vehicles with up to 5.7 liter engine size and 6000 lbs. weight.

Emissions data submitted show that the catalytic converter meets the requirements of Vehicle Code Section 27156 and Title 13, California Code of Regulations, Section 2222(h) for the stated application. Based on the above, the staff recommends that the exemption be granted as requested.

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I. INTRODUCTION

Maremont Corporation (Maremont) of 250 E. Kehoe Blvd, Carol Stream, Illinois 60188, has applied for an exemption for their new aftermarket three-way (TWC) catalytic converter in accordance with the California regulations on new aftermarket catalytic converters. The intended converter application is shown below:

<u>Type</u>	<u>Part No.</u>	<u>Max. Engine Size</u>	<u>Max. Veh. Wt.</u>
TWC	28802,28833, 28834	5.7L (350 CID)	6000 lbs.

II. CONCLUSION

The applicant has submitted all the required information and based on the submitted exhaust emissions test data, the staff concludes that the catalytic converter meets the criteria set forth in Vehicle Code Section 27156 and Title 13, California Code of Regulations, Section 2222(h) for the stated application.

III. RECOMMENDATION

The staff recommends that the exemption be granted as requested and that Executive Order No. D-184-6 be issued, permitting the advertisement, sale and installation of the new aftermarket catalytic converter.

IV. DEVICE DESCRIPTION

The Maremont three-way substrates are coated with palladium and rhodium. Air injection is not incorporated between the reducing and oxidizing substrates. The substrates are enclosed in an outer shell or container of stainless steel. The converter shell is constructed of stainless steel 409. A heat shield of aluminum is welded to the converter shell to protect the vehicle underbody from heat. The catalytic converter is sold with installation instructions and kits as shown in the Maremont's application catalog. It is also sold with a warranty for 25,000 miles on the substrates and five years or 50,000 miles on the container or shell.

V. DEVICE EVALUATION

Maremont has submitted test data on the catalytic converter. The tests were conducted by Automotive Testing and Development Services, Inc. (ATDS), Huntington Beach, California. The two test catalysts were respectively aged on a 1988 Chevrolet Suburban, 5.7L with TBI (Throttle Body Injection), and a 1988 Chevrolet Silverado Pick-up, 5.7L with TBI. The conversion efficiency testing was conducted on a 1988 Chevrolet Cheyenne, 5.7L with TBI as a test vehicle. Two CVS-75 emission tests were conducted on the test vehicle with the converter installed and two CVS-75 tests were conducted with exhaust backpressure simulator. The vehicle test weight for all three vehicles was 6000 lbs. The exemption for the converter is limited to vehicles up to 5.7 liters and 6000 lbs. in order to conform to the "worst case" requirement of the California regulations. The test results and conversion efficiencies for the converter are shown below:

Three-way Catalytic Converter

	<u>Simulator 1</u>	<u>Converter 1</u>	<u>Converter 2</u>	<u>Conversion Efficiency</u>
HC (g/mi)	3.073	0.366	0.384	87.8%
CO (g/mi)	20.024	5.048	4.730	75.6%
NOx(g/mi)	1.532	0.454	0.530	67.9%

All of the conversion efficiencies meet the requirements of the California regulations. The staff based the evaluation of the new aftermarket catalytic converter on the information submitted by Maremont and on test data from Automotive Testing and Development Services, Inc.