

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-184-2
Relating to Exemptions Under Section 27156
of the Vehicle Code

MAREMONT CORPORATION
"NEW AFTERMARKET CATALYTIC CONVERTERS"

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 has applied to the ARB for exemption from the prohibitions of Vehicle Code Section 27156 for their new aftermarket catalytic converters series 28701 to 28905 for the following applications:

| <u>Converter Type</u> | <u>Use</u> | <u>Max. Engine Size</u> | <u>Maximum Veh. Weight</u> |
|-----------------------|------------|-------------------------|----------------------------|
| 2-Way (OC) | 2-Way | 5.7L (350 CID) | 4,500 lbs |
| 3-Way | 2-Way | 5.7L (350 CID) | 4,000 lbs |
| 3-Way | 2-Way | 3.8L (231 CID) | 4,000 lbs |
| 3-Way | 3-Way | 3.8L (231 CID) | 4,000 lbs |
| 3-Way + OC | 3-Way + OC | 5.0L (305 CID) | 4,500 lbs |
| 3-Way + OC | 3-Way | 3.8L (231 CID) | 4,500 lbs |
| 3-Way + OC | 2-Way | 3.8L (231 CID) | 4,500 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 converters comply 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 converters are exempt from the prohibitions of Vehicle Code Section 27156 for installation on the approved application vehicles subject to the following conditions:

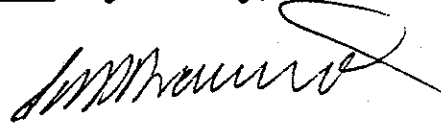
1. No changes are permitted to the converters as described in the application for exemption. Any changes to the converters, applicable model year, or other factors addressed in this order must be evaluated and approved by the Air Resources Board prior to marketing in California.
2. Marketing of the converters using identifications other than those shown in the exemption application or marketing of the converters 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 these products shall not be construed as an exemption to sell, offer for sale, or advertise any components of the converters as individual devices.

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 converters and is only a finding that the converters are 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.

This Executive Order supersedes the Executive Order No. D-184 dated November 4, 1988.

Executed at El Monte, California, this 19th day of July, 1989.



K. D. Drachand, Chief
Mobile Source Division

State of California
AIR RESOURCES BOARD

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

July, 1989

EVALUATION OF MAREMONT NEW AFTERMARKET
CATALYTIC CONVERTERS 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 Carol Stream, Illinois, has applied for exemption on their new aftermarket catalytic converters under the California regulations for new aftermarket catalytic converters. In addition, they have applied for an exemption allowing the use of their three-way and three-way plus converters in two-way applications.

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

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

I. INTRODUCTION

Maremont Corporation of Carol Stream, Illinois, has applied for an exemption for their new aftermarket catalytic converters, which are shown in Table 1 of the Appendix, in accordance with the California regulations on new aftermarket catalytic converters. In addition, they have applied for an exemption to allow the use of their three-way plus and three-way converters in two-way applications.

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 converters meet the criteria set forth in Vehicle Code Section 27156 and Title 13, California Code of Regulations, Section 2222(h).

III. RECOMMENDATION

The staff recommends that the exemption be granted as requested and that Executive Order No. D-184-2 permitting the advertisement, sales and installation of the new aftermarket catalytic converters be issued.

IV. DEVICE DESCRIPTION

The Maremont catalytic converter consists of honeycomb type substrates coated with platinum and palladium plus rhodium and enclosed in an outer shell or container of stainless steel. The three-way plus oxidation catalytic converter incorporates an air injection tube between two substrates.

The Maremont Corporation catalytic converters use materials and construction similar to the original equipment manufacturers. The catalytic converters are sold with installation instructions and kits as shown in the application catalog. They are also sold with a two year or 25,000 mile warranty on the substrates and five years or 50,000 miles on the container or shell.

V. DEVICE EVALUATION

Maremont Corporation provided test data for the catalytic converters. The tests were conducted by Automotive Testing and Development Services, Inc. (formerly Olson Engineering, Inc.), Huntington Beach, California. 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 tests were conducted following the 25,000 miles mileage accumulation on each of the two test converters. The mileage accumulation vehicles had test weights and engine displacements equal or higher than the test vehicle. The conversion efficiencies of the converters, maximum vehicle weight and maximum engine displacement are shown in Table 1 of the Appendix. All of the conversion efficiencies meet the requirements of the California regulation.

The staff based the evaluation of the new aftermarket catalytic converters on the data from Automotive Testing and Development Services, Inc. tests.

APPENDIX

Table 1. Maremont Catalytic Converters

| Converter Type | Use | Conversion Efficiency | | | Engine Size | Test Weight | Part No. Series | Mfg. No. |
|----------------|------------|-----------------------|------|------|---------------|-------------|-------------------|----------|
| | | HC | CO | NOx | | | | |
| OC | OC | 76.3 | 93.6 | - | 5.7L(350 CID) | 4500 lbs | 28701-28703,28705 | 7-9225 |
| 3-Way | OC | 84.7 | 97.0 | - | 5.7L(350 CID) | 4000 lbs | 28801 | 7-9224 |
| 3-Way | OC | 89.6 | 89.4 | - | 3.8L(231 CID) | 4000 lbs | 28811-28813 | 7-9226 |
| 3-Way | 3-Way | 86.6 | 83.1 | 68.9 | 3.8L(231 CID) | 4000 lbs | 28811-28813 | 7-9226 |
| 3-Way + OC | 3-Way + OC | 80.0 | 82.8 | 52.4 | 5.0L(305 CID) | 4500 lbs | 28901-28903,28905 | 7-9227 |
| 3-Way + OC | 3-Way | 82.2 | 73.2 | 63.7 | 3.8L(231 CID) | 4500 lbs | 28901-28903,28905 | 7-9227 |
| 3-Way + OC | OC | 78.1 | 89.7 | - | 3.8L(231 CID) | 4500 lbs | 28901-28903,28905 | 7-9227 |