

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-211  
Relating to Exemptions Under Section 27156  
of the Vehicle Code

MEGATRON PRODUCTS  
MEGATRON MODEL NUMBER 100, 200, AND 300 CERAMIC ENGINE DESCALER

WHEREAS, Vehicle Code Section 27156 and Title 13, California Code of Regulations (hereafter "CCR") Section 2222(e), authorize the California Air Resources Board (ARB) and its Executive Officer to exempt add-on and modified parts from the prohibitions of Vehicle Code Section 27156.

WHEREAS, Megatron Products has applied to the ARB for exemption from the prohibitions of Vehicle Code Section 27156 for the Megatron number 100, 200, and 300 ceramic engine descaler.

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:

1. The Megatron number 100, 200, and 300 ceramic engine descaler is an add-on device attached to the fuel line in a motor vehicle.
2. The Megatron number 100, 200, and 300 ceramic engine descaler is intended for use with a required motor vehicle pollution control system.
3. The Megatron number 100, 200, and 300 ceramic engine descaler by being installed in the fuel line alters the original design of a motor vehicle pollution control system.
4. The Megatron number 100, 200, and 300 ceramic engine descaler is a device subject to the prohibitions of Vehicle Code Section 27156 and add-on part as defined by 13 CCR Section 1900(b)(1).
5. The Megatron number 100, 200, and 300 ceramic engine descaler does not reduce the effectiveness of any required motor vehicle pollution control device.
6. The Air Resources Board, in the exercise of technical judgement, is aware of no basis on which the Megatron number 100, 200, and 300 ceramic engine descaler will provide an increase in fuel economy.

7. It has not been determined what effect use of the Megatron number 100, 200, and 300 ceramic engine descaler may have on any warranty, either expressed or implied, by the manufacturer of a motor vehicle on which the device is installed.
8. The Megatron Products 100, 200, and 300 ceramic engine descaler is not a certified motor vehicle pollution control device pursuant to Health and Safety Code Section 43644.
9. The Air Resources Board by granting an exemption to Megatron Products for the Megatron number 100, 200, and 300 ceramic engine descaler does not recommend or endorse in any way the Megatron number 100, 200, and 300 ceramic engine descaler for emissions reduction, fuel economy, or any other purpose.

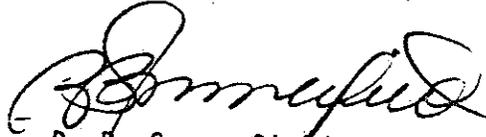
IT IS HEREBY RESOLVED that the Megatron number 100, 200, and 300 ceramic engine descaler is exempt from the prohibitions of Vehicle Code Section 27156 for installation as specified. Model number 100 for all engines up to 450 C.I.D., model number 200 for all engines over 450 C.I.D., and number 300 for diesel twin engines and jet engines.

1. This exemption shall not apply to any device, apparatus, or mechanism advertised, offered for sale or sold with, or installed on, a motor vehicle prior to or concurrent with transfer to an ultimate purchaser.
2. No changes are permitted to the device as described in the application for exemption. Any changes to the device, 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.
3. Marketing of this device using an identification other than that shown in this Executive Order or marketing of this device for an application other than those listed in the Executive Order 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 component of the product as an individual device.
4. Any oral or written references to this Executive Order or its content by Megatron Products, 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 fuel economy or emissions reduction claims for the Megatron Products number 100, 200, and 300 ceramic engine descaler and is only a finding that the device is exempt from the prohibitions of Vehicle Code Section 27156.

5. 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 20<sup>th</sup> day of November, 1990.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

State of California  
AIR RESOURCES BOARD

EVALUATION OF MEGATRON PRODUCTS MODEL NUMBER 100, 200, AND 300  
CERAMIC ENGINE DESCALER FOR EXEMPTION FROM THE PROHIBITIONS OF VEHICLE  
CODE SECTION 27156 IN ACCORDANCE WITH SECTION 2222, TITLE 13, OF THE  
CALIFORNIA CODE OF REGULATIONS

November 1990

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AIR RESOURCES BOARD

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by

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(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

Megatron Products, of 2015 N. Dobson #4-B63, Chandler, Arizona 85224, has applied for an exemption from the prohibitions in Section 27156 of the California Vehicle Code for the Megatron number 100, 200, and 300 ceramic engine descaler. The Ceramic Engine Descaler is designed for installation on 1991 and older model year vehicles, which includes model number 100 for all engines up to 450 C.I.D., model number 200 for all engines over 450 C.I.D., and model number 300 for diesel twin engines and jet engines.

Previously, the Air Resources Board exempted three similar devices; "Polarion-X" by AZ Industries, Inc., "Petro-Mizer MKI" by P and M Research and Development Laboratory, and "Fuel Energizer" by Magnetizer Group, Inc., with the same basic operating principles. Based on the engineering evaluation of the device and exemption of similar devices, the staff believes the Megatron number 100, 200, and 300 ceramic engine descaler does not have any adverse effect on exhaust emissions. The staff recommends the Megatron number 100, 200, and 300 ceramic engine descaler be exempted from the prohibitions in Vehicle Code Section 27156 and that Executive Order D-211 be issued.

TABLE OF CONTENTS

	Page Number
SUMMARY	i
CONTENTS	ii
I. INTRODUCTION	1
II. CONCLUSION	1
III. RECOMMENDATION	1
IV. DESCRIPTION	2
V. DISCUSSION	2
APPENDIX	4
APPENDIX A: INSTALLATION INSTRUCTIONS	5

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I. INTRODUCTION

Megatron Products, of 2015 N. Dobson #4-B63, Chandler, Arizona 85224, has applied for an exemption from the prohibitions in Section 27156 of the California Vehicle Code for the Megatron number 100, 200, and 300 ceramic engine descaler. The Ceramic Engine Descaler is designed for installation on 1991 and older model year vehicles, which includes model number 100 for all engines up to 450 C.I.D., model number 200 for all engines over 450 C.I.D., and model number 300 for diesel twin engines and jet engines.

II. CONCLUSIONS

Previously, the Air Resources Board exempted three similar devices; "Polarion-X" by AZ Industries, Inc., "Petro-Mizer MKI" by P and M Research and Development Laboratory, and "Fuel Energizer" by Magnetizer Group, Inc., with the same basic operating principles. Based on the engineering evaluation of the device and exemption of similar devices, the staff believes the Megatron number 100, 200, and 300 ceramic engine descaler does not have any adverse effect on exhaust emissions.

III. RECOMMENDATION

The staff recommends the Megatron number 100, 200, and 300 ceramic engine descaler be exempted from the prohibitions in Vehicle Code Section 27156 and that Executive Order D-211 be issued.

IV. DEVICE DESCRIPTION

Megatron number 100, 200, and 300 ceramic engine descaler is a magnetic device designed for installation on the fuel line. The device is mounted between the fuel tank and the engine and is attached to any straight section of the fuel line that is at least six inches long. The device is attached to the line in a clamping mode type operation. The magnet housing is square in shape and contains two parts. The two parts slide into each other allowing the fuel line to be trapped in the middle of the device. The device is now held together in this position by four set screws, a pair on opposite sides of the housing.

V. DISCUSSION

Megatron Products claims when the device is installed on a vehicle's fuel line, the molecules are polarized causing the particles to be attracted to the center and share a common magnetic field. This arrangement establishes an electrostatic colloidal matrix which attracts and suspends stray particles that come within the molecules magnetic field. These stray particles are represented as contamination in the fuel system and is flushed out via the engine.

The ARB did not perform any emission or fuel economy tests to substantiate the claims made by the manufacturer. No adjustments such as timing, EGR, fuel metering or any other engine adjustments are included in the installation instructions. Previously, the ARB exempted three similar devices: "Polarion-X" by AZ Industries, Inc., "Petro-Mizer MKI" by P and M Research and Development Laboratory, and "Fuel Energizer" by The Magnetizer Group, Inc. The exemptions were granted based on back-to-back CVS-testing, fuel economy testing

and engineering evaluation. Because of the previous exemptions issued to similar devices with the same operating principle and the fact that qualifying for an exemption is based on not adversely affecting exhaust emissions, the staff recommends that Megatron Products be granted an exemption as requested.

APPENDIX