

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-174-1  
Relating to Exemptions Under Section 27156  
of the Vehicle Code

THE MAGNETIZER GROUP, INC.  
"FUEL-ENERGIZER" DEVICE

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, the Magnetizer Group, Inc. has applied to the ARB for exemption from the prohibitions of Vehicle Code Section 27156 for the "Fuel-Energizer" device.

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 "Fuel-Energizer" model AFE-1 is an add-on device that is attached to the fuel line in a motor vehicle.
2. The fuel line is part of the required motor vehicle pollution control system.
3. The "Fuel-Energizer" model AFE-1 is intended for use with a required pollution control system.
4. The "Fuel-Energizer" model AFE-1 by being installed in the fuel line alters the original design of a motor vehicle pollution control system.
5. The "Fuel-Energizer" model AFE-1 is a device subject to the prohibitions of Vehicle Code Section 27156 and an add-on part as defined by 13 CCR Section 1900(b)(1).
6. The "Fuel-Energizer" model AFE-1 does not reduce the effectiveness of any required motor vehicle pollution control device.
7. The Air Resources Board, in the exercise of technical judgement, is aware of no basis on which the "Fuel-Energizer" model AFE-1 will provide either a decrease in emission or an increase in fuel economy.
8. It has not been determined what effect use of the "Fuel-Energizer" model AFE-1 may have on any warranty, either expressed or implied, by the manufacturer of a motor vehicle on which the device is installed.

9. The "Fuel-Energizer" model AFE-1 is not a certified motor vehicle pollution control device pursuant to Health and Safety Code Section 43644.
10. The Air Resources Board by granting an exemption to the Magnetizer Group for the "Fuel-Energizer" model AFE-1 does not recommend or endorse in any way the "Fuel-Energizer" model AFE-1 for emissions reduction, fuel economy, or any other purpose.

IT IS HEREBY RESOLVED that the "Fuel-Energizer" model AFE-1 is exempt from the prohibitions of Vehicle Code Section 27156 for installation on 1991 and earlier model-year vehicles powered with gasoline or diesel internal combustion engines subject to the following conditions:

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 purchase.
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 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 the Magnetizer Group, Inc., 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 "Fuel-Energizer" 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 ground 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

THE MAGNETIZER GROUP, INC.  
"FUEL-ENERGIZER" DEVICE

EXECUTIVE ORDER D-174-1  
(Page 3 of 3)

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 19<sup>th</sup> day of September, 1990.



R. B. Summerfield  
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Mobile Source Division

State of California  
AIR RESOURCES BOARD

EVALUATION OF THE MAGNETIZER GROUP, INC.'S FUEL-ENERGIZER DEVICE  
MODEL AFE-1 FOR EXEMPTION FROM THE PROHIBITIONS OF VEHICLE CODE  
SECTION 27156 IN ACCORDANCE WITH SECTION 2222, TITLE 13, OF THE  
CALIFORNIA ADMINISTRATIVE CODE

August 1990

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CALIFORNIA ADMINISTRATIVE CODE

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

The Magnetizer Group, Inc. of P. O. Box 1000, Gardenville, PA 18926, has requested to update Executive order D-174 from the prohibitions in Section 21756 of the California Vehicle Code for their Fuel-Energizer model AFE-1. Executive Order D-174 currently exempts the Fuel-Energizer for 1987 and older model-year gasoline vehicles. The Magnetizer Group, Inc. would like to update the exemption to include 1991 and older model-year gasoline vehicles.

The Staff recommends adoption of Executive Order D-174-1 granting The Magnetizer Group, Inc. exemption from the Fuel-Energizer model AFE-1 for 1991 and older model-year vehicles.

TABLE OF CONTENTS

	Page Number
SUMMARY	i
CONTENTS	ii
I. INTRODUCTION	1
II. CONCLUSION	1
III. RECOMMENDATION	1
IV. DEVICE DESCRIPTION	2
V. DISCUSSION	2
VI. APPENDIX A: ENGINEERING DRAWING	4

EVALUATION OF THE MAGNETIZER GROUP, INC.'S FUEL-ENERGIZER DEVICE  
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I. INTRODUCTION

The Magnetizer Group, Inc., of P. O. Box 1000, Gardenville, PA 18926, previously received an exemption from the prohibitions of Vehicle Code Section (VC) 27156 for the Fuel-Energizer under Executive Order D-174. Under Executive Order D-174, the device can be used on 1987 and older model-year vehicles. The Magnetizer Group, Inc. has requested the exemption for the Fuel-Energizer be updated to include the 1991 and older model-year vehicles.

The applicant submitted a sample of the modified device, model AFE-1, and claimed that the change is essentially in mounting and not in power or size of the magnets.

II. CONCLUSIONS

The Air Resources Board's staff previously determined through an engineering evaluation that the Fuel-Energizer would not adversely affect the vehicle's exhaust emissions. Since the device has not been changed in size or power of the magnets, the staff has no basis upon which to deny the request of the applicant and concurs that the device will have no adverse impact on emissions of 1991 or older model-year gasoline vehicles.

III. RECOMMENDATION

The staff recommends The Magnetizer Group, Inc. be granted an exemption from the prohibitions in California Vehicle Code Section 27156 for their Fuel-Energizer model AFE-1 and that Executive Order D-174-1 be issued.



#### IV. DEVICE DESCRIPTION

The Fuel-Energizer model AFE-1 is a magnetic device designed for installation on fuel lines. It is oblong shaped, with extended edges on the sides and consists of two parts each named as Magnetizer 1/2 unit. It is designed to fit around small diameter fuel lines (less than 1/2 inch) and is held in place by two locking ties. There are two cube magnets of sizes 1/2 inch X 5/8 inch X 2-3/8 inch in each half device. The pieces are encased in a plastic coating in order to hold the magnets in place and prevent the steel plate from corroding. Appendix A contains an engineering drawing of the device. No adjustments such as timing, EGR, fuel metering or any other engine adjustments are included in the installation instructions.

#### V. DISCUSSION

The Magnetizer Group, Inc. claims that when the Fuel-Energizer model AFE-1 is installed on a vehicle's fuel line, it will alter the ion polarities of the fuel resulting in improved vaporization, air/fuel mixture, combustion rate, engine performance and fuel economy.

The Air Resources Board (ARB) did not perform any emission or fuel economy tests to substantiate the claims made by the manufacturer. It is, however, the staff's opinion that the technical principles underlying the stated functions of the device are not capable of producing any effects on emissions and fuel economy. The ARB exempted two similar devices; "Polarion-X" by AZ Industries, Inc. and "Petro-Mizer MKI" by P and M Research and Development Laboratory. These exemptions were granted based on back-to-back CVS-testing, fuel economy testing and engineering evaluation. Because of the

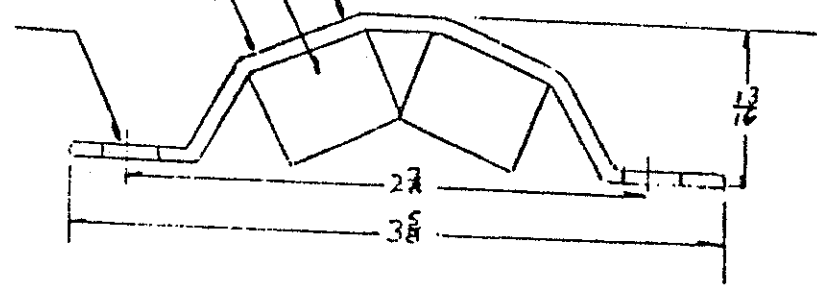
previous exemptions issued to similar devices with the same operating principle and the fact that qualifying for an exemption is based on not adversely affecting exhaust emissions, the staff recommends that the Magnetizer Group, Inc. be granted an exemption as requested.

POLYMER COATING

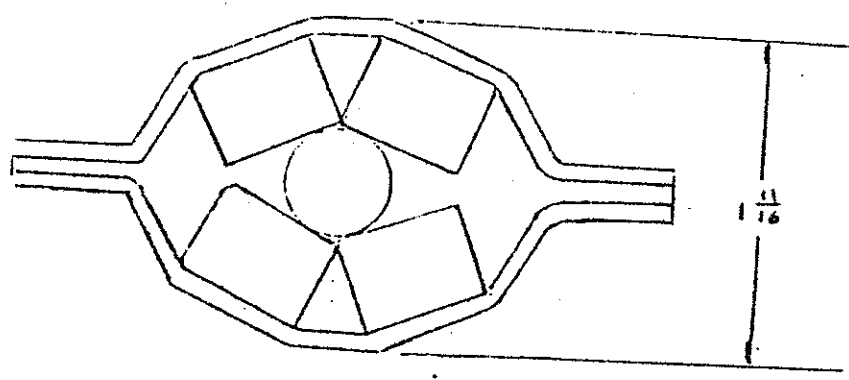
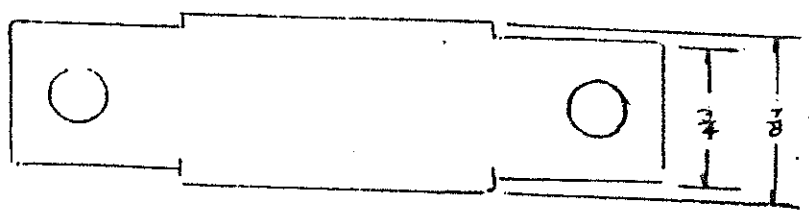
MAGNET(S)

FERROUS PLATE

BORE



4-1



Engineering Drawing  
"Fuel Energizer"