

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-192  
Relating to Exemptions under Section 27156  
of the Vehicle Code

H. K. RESEARCH AND DEVELOPMENT, INC.  
"KYNETIK-5HD"

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, H. K. Research and Development, Inc. has applied to the ARB for exemption from the prohibitions of Vehicle Code Section 27156 for the Kynetik-5HD Heavy Duty Fuel Conditioning Device, hereafter referred to as Kynetik-5HD.

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:

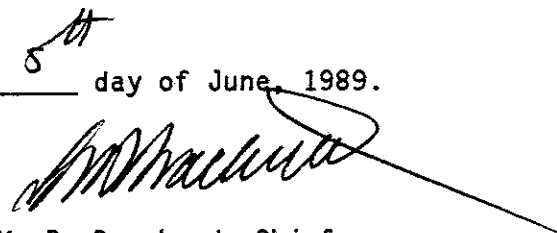
1. Kynetik-5HD is an add-on magnet that is strapped to the fuel supply line.
2. Kynetik-5HD is intended for use with a required motor vehicle pollution control system.
3. Kynetik-5HD by being installed in the engine does not alter the original design of a motor vehicle pollution control system.
4. Kynetik-5HD 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).
5. Kynetik-5HD does not reduce the effectiveness of any required motor vehicle pollution control device.
6. The ARB in the exercise of technical judgement, is aware of no basis on which the Kynetik-5HD will provide either a decrease in exhaust emissions or an increase in fuel economy.
7. It has not been determined what effect the use of Kynetik-5HD may have on any warranty, either expressed or implied, by the manufacturer of a motor vehicle on which the device is installed.
8. Kynetik-5HD is not a certified motor vehicle pollution control device pursuant to Health and Safety Code Section 43644.
9. The ARB by granting an exemption to H. K. Research and Development, Inc. for the Kynetik-5HD device does not recommend or endorse in any way the Kynetik-5HD device for emissions reduction, fuel economy, or any other purpose.

IT IS HEREBY RESOLVED that Kynetik-5HD is exempt from the prohibitions of Vehicle Code Section 27156 for installation on 1989 and earlier model-year gasoline and diesel-powered vehicles 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 purchaser.
2. No changes are permitted to the device as described in the staff report. Any changes to the device applicable model-year, or other factors addressed in this Executive Order must be evaluated and approved by the ARB 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 this 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 H. K. Research and Development, 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 Kynetik-5HD and is only a finding that the device 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 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 5<sup>th</sup> day of June, 1989.

  
K. D. Drachand, Chief  
Mobile Source Division

State of California  
AIR RESOURCES BOARD

EVALUATION OF H. K. RESEARCH AND DEVELOPMENT, INC.'S KYNETIK-5HD DEVICE  
FROM THE PROHIBITIONS IN VEHICLE CODE SECTION 27156  
IN ACCORDANCE WITH SECTION 2222, TITLE 13, OF THE  
CALIFORNIA CODE OF REGULATIONS

June, 1989

Issue Date: June, 1989

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by

Mobile Source Division

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Air Resources Board  
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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

H. K. Research and Development, Inc., of 177 Riverside Drive, Newport Beach, CA 92663-4018, applied for exemption from the prohibitions in Section 27156 of the California Vehicle Code for their Kynetik-5HD device. The device is designed for installation on 1989 and older model-year gasoline and diesel-powered vehicles.

Previously, the Air Resources Board exempted similar devices; "Fuel-Energizer" by Magnetizer Group, Inc., "Polarion-X" by AZ Industries, Inc. and "Petro-Mizer MKI" by P and M Research and Development Laboratory with the same basic operating principles. Based on the engineering evaluation of the device and exemption of similar devices, the staff believes the Kynetik-5HD device does not adversely effect exhaust emissions. The staff recommends that the Kynetik-5HD device be exempted from the prohibitions in Vehicle Code Section 27156 and that Executive Order D-192 be issued.

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I. INTRODUCTION

H. K. Research and Development, Inc., of 177 Riverside Drive, Newport Beach, CA 92663-4018, has applied for exemption from the prohibitions of Section 27156 of the California Vehicle Code for their Kynetik-5HD device. The device is designed for installation on 1989 and older model-year gasoline and diesel-powered vehicles.

The applicant submitted one sample for our inspection and evaluation. The applicant also submitted a test report and detailed drawings for our evaluation.

II. CONCLUSIONS

Based on the engineering evaluation of the device and previous exemption of similar devices with the same operating principles, the staff's engineering judgement is that the Kynetik-5HD device has no adverse effect on exhaust emissions.

III. RECOMMENDATIONS

The staff recommends that H. K. Research and Development, Inc., be granted an exemption from the prohibitions in California Vehicle Code Section 27156 for their Kynetik-5HD device and that Executive Order (E.O.) D-192 be issued.

IV. DEVICE DESCRIPTION

The Kynetik-5HD is a 2-7/16" x 5" rectangularly shaped device containing four 3/8"x7/8" ceramic magnets. The device has one groove formed along the bottom 5" length. The purpose of the groove is for secure mounting of the device to the fuel line. Two nylon cable ties are supplied

to hold the device to the fuel line. The device is made of plastic. See the attached drawing Fig. #1 for additional physical dimensions and construction information.

The device is designed to be strapped to the fuel line at or near the the combustion chamber. According to the applicant, as fuel flows through the line it is influenced by a high intensity magnetic field which ionizes the fuel. This ionization process causes fuel hydrocarbons to exhibit a net positive molecular charge resulting in a hydrocarbon molecule that more readily bonds to the net negative charged oxygen molecule. The resultant conditioned fuel burns more completely giving a higher BTU output and better fuel efficiency.

The Air Resources Board (ARB) did not perform any testing to substantiate the claims made by the manufacturer. It is the staff's opinion that the technical principles underlying the stated function of the device are not capable of producing any effects on emissions and fuel economy.

#### V. DISCUSSION

The ARB exempted three similar devices; "Fuel Energizer," "Polarion-X" and "Petro-Mizer MKI." Based on the previous exemptions and an engineering evaluation of the device, the staff recommends that the Kynetik-5HD device be exempted from the prohibitions in Vehicle Code Section 27156.