

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-313
Relating to Exemptions Under Section 27156
of the Vehicle Code

SUPERCHIPS INTERNATIONAL, INC.
ECO-FLOW

WHEREAS, Vehicle Code Section 27156 and Title 13 California Code of Regulations (hereafter "CCR") Section 2222(e), authorizes 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, Superchips International, Inc. has applied to the ARB for exemption from the prohibitions of Vehicle Code Section 27156 for the ECO-FLOW.

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 ARB finds:

1. The ECO-FLOW 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 ECO-FLOW is intended for use with a required pollution control system.
4. The ECO-FLOW by being installed on the fuel line alters the original design of a motor vehicle pollution control system.
5. The ECO-FLOW 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 ECO-FLOW does not reduce the effectiveness of any required motor vehicle pollution control device.
7. The ARB, in the exercise of technical judgement, is aware of no basis on which the ECO-FLOW will provide either a decrease in emission or an increase in fuel economy.
8. It has not been determined what effect use of the ECO-FLOW may have on any warranty, either expressed or implied, by the manufacturer of a motor vehicle on which the device is installed.

9. The ECO-FLOW is not a certified motor vehicle pollution control device pursuant to Health and Safety Code Section 43644.
10. The ARB by granting an exemption to Superchips International, Inc. for the ECO-FLOW does not recommend or endorse in any way the ECO-FLOW for emissions reduction, fuel economy, or any other purpose.

IT IS HEREBY RESOLVED that the ECO-FLOW is exempt from the prohibitions of Vehicle Code Section 27156 for installation on 1993 and earlier model-year 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 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 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 the Executive Order shall be prohibited unless prior approval is obtained from the ARB. 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 Superchips International, 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 ECO-FLOW 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 a 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 24th day of March, 1993.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

State of California
AIR RESOURCES BOARD

EVALUATION OF SUPERCHIPS INTERNATIONAL, INC.'S ECO-FLOW
FOR EXEMPTION FROM THE PROHIBITIONS OF VEHICLE CODE SECTION
27156 IN ACCORDANCE WITH SECTION 2222, TITLE 13, OF THE
CALIFORNIA CODE OF REGULATIONS

March 1993

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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

Superchips International, Inc. of 2762 Summerdale Drive, Clearwater, Florida 34684, has applied for exemption from the prohibitions in Section 27156 of the California Vehicle Code for the ECO-FLOW device. The device is designed for installation on 1993 and older model-year vehicles.

Previously the Air Resources Board (ARB) exempted three similar devices; "Fuel Charger" by J. A. Lance Company, Inc., "Fuel-Energizer" by the Magnetizer Group, Inc. and "Magna Charger" by B & D Research and Development. Based on the engineering evaluation of the ECO-FLOW device and exemptions issued for the devices that operate in a manner similar to the ECO-FLOW, the staff believes that the ECO-FLOW will not have any adverse effects on the exhaust emissions from motor vehicles.

The staff recommends that the ECO-FLOW device be exempted from the prohibitions in Vehicle Code Section 27156 and that Executive Order D-313 be issued.

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I. INTRODUCTION

Superchips International, Inc. of 2762 Summerdale Drive, Clearwater, Florida 34684, has applied for an exemption from the prohibitions of Vehicle Code Section (VC) 27156 for the ECO-FLOW device. The device is designed for installation on 1993 and older model-year vehicles. The applicant submitted installation instructions and drawings of the device for our evaluation.

II. CONCLUSION

Previously, the Air Resources Board (ARB) exempted three similar devices; "Fuel Charger" by J. A. Lance Company, Inc., "Fuel-Energizer" by the Magnetizer Group, Inc. and "Magna Charger" by B & D Research and Development". Based on the engineering evaluation of the device and the exemptions issued to other devices that operate in a manner similar to the ECO-FLOW, the staff has determined the ECO-FLOW will not have any adverse effects on the exhaust emissions from motor vehicles.

III. RECOMMENDATION

The staff recommends that Superchips International, Inc. be granted an exemption from the prohibitions in California Vehicle Code Section 27156 for the ECO-FLOW device and that Executive Order D-313 be issued.

IV. DEVICE DESCRIPTION

The ECO-FLOW consists of ceramic magnets surrounded by a plastic casing. The total length of the device is 4 inches. The device is designed to be attached to any part of the fuel line using plastic wire ties.

V. DISCUSSION

Superchips International, Inc. claims that the ECO-FLOW, when installed on a vehicle's fuel line, magnetically treats fluid hydrocarbon fuels. The manufacturer stated that the device imposes an electromotive force on the device which causes the molecular structure to be aligned. The manufacturer claims this device decreases emissions and increases driveability. The ARB did not perform any testing on the device to substantiate the claims made by the manufacturer. However, 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.

The ARB previously exempted three similar devices; "Fuel Charger" by J. A. Lance Company, Inc., "Fuel-Energizer" by the Magnetizer Group, Inc. and "Magna Charger" by B & D Research and Development". Because of previous exemptions issued to similar devices with the same operating principle as the ECO-FLOW and the fact that qualifying for an exemption is based on not adversely affecting exhaust emissions, the staff recommends that Superchips International, Inc. be granted an exemption as requested.

APPENDIX

ECOFLOW

Fitting Instructions

FIG. 1 CARBURETTOR ENGINE

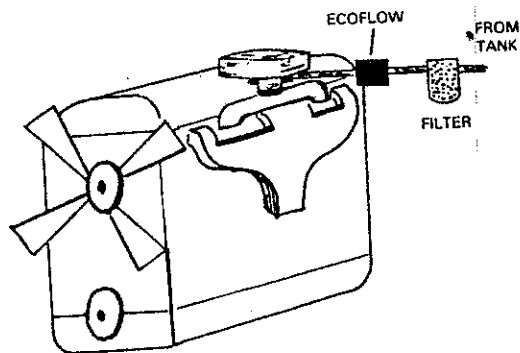


FIG. 2 INJECTION ENGINE

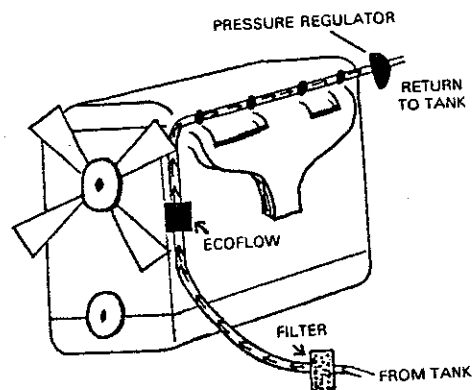


FIG. 3 DIESEL ENGINE

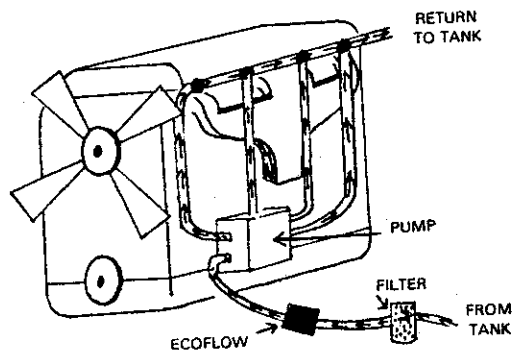
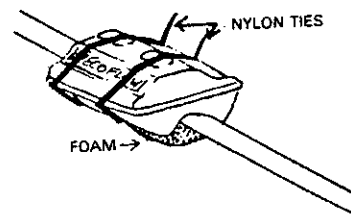


FIG. 4



1. The Ecoflow must be secured to the **INCOMING** fuel line between the filter and engine, as close as possible to the combustion area. **IGNORE** the fuel return line in diesel and injection engines.
2. If the weight of the ECOFLOW causes any stress to the fuel line it must be supported by an adjacent component using the third tie provided. This will prevent any possible fracture of the fuel line.

The vehicle may have to complete 1000 miles or more before the full benefits of the ECOFLOW are apparent. During this running in period the ionised fuel cleans the combustion area of the engine.

It is advisable to have your engine tuned after 2000 miles to ensure full advantage is being made of the cleaner burn and combustion chamber. Failure to do this may result in lost performance.