

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-541-1

Relating to Exemptions Under Section 27156  
of the Vehicle Code

Edge Products  
Power Edge Juice

Pursuant to the authority vested in the Air Resources Board by Section 27156 of the Vehicle Code; and

Pursuant to the authority vested in the undersigned by Section 39515 and Section 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the installation of the Power Edge Juice manufactured and marketed by Edge Products, 5150 Washington, Ogden, Utah 84405 has been found not to reduce the effectiveness of the applicable vehicle pollution control system and, therefore, is exempt from the prohibitions of Section 27156 of the Vehicle Code for 2003 and older model year General Motors trucks equipped with the 6.6L turbo diesel engine.

The Power Edge Juice device consists of an electronic module and a wiring harness. The Power Edge Juice has four levels of performance, normal to tow/haul.

This Executive Order is valid provided that the installation instructions for the Power Edge Juice will not recommend tuning the vehicle to specifications different from those submitted by the device manufacturer.

Changes made to the design or operating conditions of the Power Edge Juice, as exempt by the Air Resources Board, which adversely affect the performance of the vehicle's pollution control system shall invalidate this Executive Order.

Marketing of the Power Edge Juice using any identification other than that shown in this Executive Order or marketing of the Power Edge Juice 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 the Power Edge Juice shall not be construed as exemption to sell, offer for sale, or advertise any component of the kit as an individual device.

This Executive Order does not constitute any opinion as to the effect the use of the Power Edge Juice may have on any warranty either expressed or implied by the vehicle manufacturer.

This Executive Order is granted based on submitted emissions test data which showed that the Power Edge Juice, set to the highest performance level, did not adversely affect tailpipe emissions during a Cold-Start 505 Federal Test Procedure. A 2003 model year General Motors HD3500 with a 6.6L diesel engine, and certified to the Low Emission Vehicle (LEV) emission standards was used as the test vehicle.

	HC	CO	NOx	PM	Opacity
Stock	0.15	1.0	5.7	0.047	2.9%
Device	0.12	0.9	5.7	0.039	2.9%
Difference	-0.03	-0.1	0.0	-0.008	
% Change	-20%	-10%	0%	-17%	

Exhaust emissions during comparative Cold Start 505 Federal Test Procedure showed that the Power Edge Juice did not cause emissions to exceed baseline by more than the allowed limits of 10 percent or 0.10 grams per mile on hydrocarbon (HC) and oxides of nitrogen (NOx), 15 percent or 1.0 grams per mile carbon monoxide (CO), and 15 percent or 0.03 grams per mile on Particulate Matter (PM) as specified in the "Procedures for Exemption of Add-On and Modified Parts." Opacity test results were also below their applicable emission standard. This Executive Order is also based on an On-Board Diagnostic II (OBD II) testing conducted on the same vehicle. Test data showed that the Power Edge Juice when installed on the vehicle did not affect the vehicle's ability to perform its OBD II monitoring. The completion of the misfire readiness monitor was never documented with a scan tool download, but did set to complete according to the testing laboratory.

The ARB finds that reasonable grounds exist to believe that use of the Power Edge Juice may adversely affect emissions of motor vehicles when operating under conditions outside the parameters of the Cold-Start 505 Federal Test Procedure. Accordingly, the ARB reserves the right to conduct additional emission tests, in the future, as such tests are developed, that will more adequately measure emissions from all cycle phases. If such test results demonstrate that the Power Edge Juice adversely affect emissions during off-cycle conditions (defined as those conditions which are beyond the parameters of the Cold Start 505 Federal Test Procedure), this Executive Order shall be effectively rescinded as of the date the test results are validated. Further, if such test results or other evidence provides the ARB with reason to suspect that the Power Edge Juice will affect the durability of the emission control system, Edge Products shall be required to submit durability data to show that the durability of the vehicle emission control system is not, in fact, affected and/or that the add-on or modified part demonstrates adequate durability.

In addition to the foregoing, the ARB reserves the right in the future to review this Executive Order and the exemption provided herein to assure that the exempted add-on or modified part continues to meet the standards and procedures of Title 13, California Code of Regulations, Section 2222, et seq.

THIS EXECUTIVE ORDER DOES NOT CONSTITUTE A CERTIFICATION, ACCREDITATION, APPROVAL, OR ANY OTHER TYPE OF ENDORSEMENT BY THE AIR RESOURCES BOARD OF ANY CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF EDGE PRODUCTS' POWER EDGE JUICE.

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 is made after the hearing that grounds for revocation exist.

Executed at El Monte, California, this 21<sup>ST</sup> day of June 2004.



Allen Lyons, Chief  
Mobile Source Operations Division