

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-743

Relating to Exemptions Under Section 27156  
of the California Vehicle Code

VL Automotive, LLC  
VL-DLS9 Engine Conversion Kit

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-14-012;

IT IS ORDERED AND RESOLVED: That the installation of the VL-DLS9 Engine Conversion Kit, manufactured and marketed by VL Automotive, LLC, 275 Rex Boulevard, Auburn Hills, Michigan 48326, has been found not to reduce the effectiveness of the applicable vehicle pollution control systems and, therefore, is exempt from the prohibitions of Section 27156 of the Vehicle Code for all 2012 model year Fisker Karma vehicles.

The VL Automotive, LLC's VL-DLS9 Engine Conversion Kit is designed to provide all the necessary parts to replace the stock 2012 model year Fisker Karma engine, transmission, emission control system, electronic control module, and drivetrain with a used 2012 or 2013 model year 6.2L Corvette LS9 supercharged engine, emission control system (except fuel tank), electronic control module, and drivetrain (except transmission), which are emissions certified to the California Low Emission Vehicle II Low Emission Vehicle (LEV II LEV) passenger car emission standards.

The LLC's VL-DLS9 Engine Conversion Kit is designed to transform the original Karma to resemble a 2012 or 2013 model year Corvette powertrain. Every powertrain component from the Corvette is transferred to the Fisker Karma except the transmission and fuel tank. Included are all emissions control systems, exhaust and intake systems, drivetrain, electronic control module, cooling system, factory hoses, and other components. An aftermarket automatic transmission and a metal fuel tank (same capacity as Corvette) is used as part of the kit, with the original Karma fuel filler neck retained. Installation does not require any modification to the stock Corvette coolant thermostat. All supplied fuel hoses are either Avon's CADbar 9000 series or a stock factory replacement, and fuel and vapor line connectors supplied with the kit are OEM equivalent parts. Breather hoses may be replaced with an SAE30R9 rated hose.

This Executive Order is valid provided that the installation instructions for the VL-DLS9 Engine Conversion Kit will not recommend tuning the vehicle to specifications different from those of VL Automotive, LLC.

Changes made to the design or operating conditions of the VL-DLS9 Engine Conversion Kit, as exempt by the Air Resources Board, which adversely affect the performance of the vehicle's pollution control system shall invalidate this Executive Order.

This exemption is issued based on submitted emissions test data, from Roush Industries, Livonia, Michigan, on a 2012 model year Fisker Karma certified to the Low Emission Vehicle II Low Emission Vehicle (LEV II LEV) standards and tested using the Cold Start Federal Test Procedure (FTP), Supplemental Federal Test Procedure (SFTP) test cycles and a 2 Day Diurnal + Hot Soak:

	CVS-75 FTP			
	NMOG	CO	NOx	HCHO
Standards	0.075	3.4	0.05	0.015
Device Test 1 w/df	0.071	1.2	0.02	0.001
Device Test 2 w/df	0.055	1.3	0.02	0.001

	US06/SC03	
	NMHC+NOx	CO
Standards 4k	0.14/0.20	8.0/2.7
Device	0.09/0.02	2.4/1.7

#### 2-Day Diurnal + Hot Soak

	HC
Standard	0.65
Device w/df	0.19

Test results showed that the VL-DLS9 Engine Conversion Kit when installed on the vehicle did not cause exhaust or evaporative emissions to exceed the applicable emission standards during the FTP, SFTP, and 2 Day Diurnal. This Executive Order is also based on the On-Board Diagnostic II (OBD II) testing conducted on the same test vehicle. The VL-DLS9 Engine Conversion Kit when installed on the test vehicle did not affect the vehicle's ability to perform its OBD II monitoring.

The Air Resources Board 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 THE VL-DLS9 ENGINE CONVERSION KIT.

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 11<sup>TH</sup> day of June 2015.



*FOR* Annette Hebert, Chief  
Emissions Compliance, Automotive Regulations and Science Division

