CALIFORNIA
AIR RESOURCES BOARD

EXECUTIVE ORDER D-428-4

Relating to Exemptions Under Section 27156
of the California Vehicle Code

Kennedy Engineered Products, Inc.
VW Vanagon Engine Change Kit

Pursuant to the authority vested in the California Air Resources Board (CARB) by Section 27156 of the Vehicle Code (VC); 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-19-095;

IT IS ORDERED AND RESOLVED: That installation of the VW Vanagon Engine Change Kit, produced and marketed by Kennedy Engineered Products, Inc. of 38822 17th Street East, Palmdale, California 93550, 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 1980 to 1991 VW Vanagons.

The VW Vanagon Engine Change Kit is designed to provide all the necessary parts to replace the stock 1980 to 1991 VW Vanagon engine with a 1990 to 1995 2.2 liter Subaru engine. The kit includes the following main components: Adapter plates and hardware to mount the Subaru engine to the VW transmission and motor mounts, necessary intake air ducting and closed element air filter box, electrical schematic on adapting the Subaru's sensors and ECU to the Vanagon body, and an exhaust system which includes a set of manifolds, one muffler, and one Walker Manufacturing Company (d.b.a. Tenneco, Inc.) catalytic converter, part number 81101. On Vanagons that are not equipped with a check engine light on the dash, a light must be installed and wired to the Subaru ECU. The following trouble codes may be logged by the Subaru ECU: #33, speed sensor, #51, neutral switch, #52, emergency brake. The Vanagon hardware does not support these electrical functions.

Kennedy Engineered Products, Inc.'s VW Vanagon Engine Change Kit is only applicable on a complete Subaru 2.2L engine. These engines must be installed according to CARB's "Engine Change Policy" which requires the engine to be of the same model-year or newer as the vehicle it is being installed in. A complete engine includes the following: A stock 1990 to 1995 Subaru 2.2L long block equipped with the stock air intake components, closed element air filter box (either original or aftermarket), ECU, associated wiring, and all engine sensors. The new engine must interface with the stock Vanagon's evaporative emissions control system. Diesel Vanagon conversions must upgrade their evaporative emissions control system to that of a gasoline Vanagon.

The Executive Order number must be printed on an identification label and affixed near the vehicle's tune-up label with your company name, address, and the list of the following trouble codes that may be logged by the Subaru ECU: #33, #51, and #52.

This Executive Order is valid provided that installation instructions for the VW Vanagon Engine Change Kit will not recommend tuning the vehicle to specifications different from those of the vehicle manufacturer.

Changes made to the design or operating conditions of the VW Vanagon Engine Change Kit, as exempt by CARB, which adversely affect the performance of the vehicle's pollution control system shall invalidate this Executive Order.

This Executive Order shall not apply to any VW Vanagon Engine Change Kit advertised, offered for sale, sold with, or installed on a new motor vehicle prior to or concurrent with transfer to an ultimate purchaser.

Marketing of the VW Vanagon Engine Change Kit using any identification other than that shown in this Executive Order or marketing of the VW Vanagon Engine Change Kit for an application other than those listed in this Executive Order shall be prohibited unless prior approval is obtained from CARB.

This Executive Order does not constitute any opinion as to the effect the use of the VW Vanagon Engine Change Kit may have on any warranty either expressed or implied by the vehicle manufacturer.

This Executive Order is granted based on previously submitted emissions test results and an engineering evaluation of all vehicles listed in this Executive Order.

CARB 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. Further, if test results or other evidence provides CARB with reason to suspect that the VW Vanagon Engine Change Kit will affect the durability of emission control systems, Kennedy Engineered Products, Inc. shall be required to submit durability data to show that the durability of vehicle emission control systems are not, in fact, affected and/or that the add-on or modified part demonstrates adequate durability.

THIS EXECUTIVE ORDER DOES NOT CONSTITUTE A CERTIFICATION, ACCREDITATION, APPROVAL, OR ANY OTHER TYPE OF ENDORSEMENT BY THE CALIFORNIA AIR RESOURCES BOARD OF ANY CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF KENNEDY ENGINEERED PRODUCTS, INC.'S VW VANAGON ENGINE CHANGE KIT.

No claim of any kind, such as "Approved by the California 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 26th day of July 2019.

Allen Lyons, Chief
Emissions Certification and Compliance Division