

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-774-1

Relating to Exemptions Under Section 27156
of the California Vehicle Code

Specialty Vehicle Engineering, Inc.
Centrifugal Supercharger 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 Centrifugal Supercharger Kit, manufactured and marketed by Specialty Vehicle Engineering, Inc., 1501 Industrial Way North, Toms River, New Jersey 08755, 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 General Motors 2014 through 2016 model year trucks and SUVs equipped with a 5.3L or 6.2L engine and 2015 to 2017 model year 3.6L Jeep Wranglers .

The Centrifugal Supercharger Kit for the General Motors vehicles consists of the following main components: Rotrex centrifugal supercharger, model number C38-92 with a 100mm diameter pulley, bypass valve, intercooler, air intake tubing, air filter box with high flow filter, MAP sensor, and a reflashed ECM. The stock crankshaft pulley, throttlebody, mass air flow sensor, fuel pump, fuel injectors, and thermostat are retained. The tuner's emission-related data files cannot be modified by the end user. Breather hoses may be replaced with an SAE30R9 rated hose. **Boost is limited to around 10 psi.**

The Centrifugal Supercharger Kit for Jeep Wrangler consists of the following main components: Rotrex centrifugal supercharger, model number C38-92 with a 100mm diameter pulley, intake air tubing, bypass valve, MAP sensor, high flow injectors, intercooler, and a reflashed ECM (no user adjustments). **Boost is limited to 9.0 pounds per square inch.** The stock air cleaner housing, crankshaft pulley, and thermostat are retained. All supplied fuel hoses are Avon's CADbar 9000 series or a stock 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 or a stock replacement.

This Executive Order is valid provided that the installation instructions for the Centrifugal Supercharger 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 Centrifugal Supercharger 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.

Marketing of the Centrifugal Supercharger Kit using any identification other than that shown in this Executive Order or marketing of the Centrifugal Supercharger Kit for an application other than those listed in this Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board.

This Executive Order does not constitute any opinion as to the effect the use of the Centrifugal Supercharger Kit may have on any warranty either expressed or implied by the vehicle manufacturer

This Executive Order is granted based on prior submitted emission test data generated on two test vehicles modified with the supercharger kit. Test results showed that emission levels, with the supercharger kit installed, met the applicable emission standards when tested using the Cold-Start CVS-75 Federal Test Procedure (FTP) test cycle and the Supplemental Federal Test Procedure (SFTP US06/SC03) test cycle. Examination of the OBD II system showed that the supercharger kit did not affect OBD II system operation. Results from emissions testing conducted at Automotive Testing and Development Services, Inc. of Ontario, California, are shown below, in grams per mile, with deterioration factors (df) applied.

2014 model year Silverado	CVS-75 FTP			
	NMOG	CO	NOx	HCHO
Standards, Useful Life*	0.070	2.1	0.04	0.011
Device Test w/df	0.053	1.2	0.01	0.001

	US06/SC03	
	NMHC+NOx	CO
Standards 4k	0.60/0.44	11.8/4.0
Device	0.05/0.04	1.9/1.8

2015 model year Jeep Wrangler	CVS-75 FTP			
	NMOG	CO	NOx	HCHO
Standards, Useful Life*	0.070	2.1	0.04	0.011
Device Test w/df	0.035	1.1	0.03	0.001

	US06/SC03	
	NMHC+NOx	CO
Standards 4k	0.14/0.20	8.0/2.7
Device	0.07/0.03	0.8/0.6

* USEPA Bin 4, Counted as LEV II ULEV, CVS-75 FTP emissions standards, useful life.

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 CENTRIFUGAL SUPERCHARGER 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.

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

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 7th day of February 2017.


FEQ Annette Hebert, Chief
Emissions Compliance, Automotive Regulations and Science Division

