

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-161-97

Relating to Exemptions Under Section 27156  
of the California Vehicle Code

Gale Banks Engineering  
Jeep 4.0L Turbo 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-02-003;

IT IS ORDERED AND RESOLVED: That the installation of the Jeep 4.0L Turbo Kit, manufactured and marketed by Gale Banks Engineering, 546 Duggan Avenue, Azusa, California 91702, 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 1999 to 2006 model year 4.0L Jeep Wranglers, Cherokees, and Grand Cherokees.

The Jeep 4.0L Turbo Kit, consists of the following main components: Banks Sidewinder turbocharger, part number 24250, with waste gate, exhaust crossover pipe, turbine outlet pipe, reflashed ECM, 32 lb/hr. fuel injectors, Ram-Air filter housing box, 2-bar MAP sensor, and intake tube. The breather hose may be replaced with an SAE30R9 rated hose. Boost is limited to a maximum of 8 psi. The stock throttle body, fuel pump, and radiator thermostat are retained during installation. The new ECM calibration and/or programmer does not have any emission related user adjustments nor can it be capable of allowing the user to upload new fuel and timing maps.

This Executive Order is valid provided that the installation instructions for the Jeep 4.0L Turbo Kit will not recommend tuning the vehicle to specifications different from those of Gale Banks Engineering

Changes made to the design or operating conditions of the Jeep 4.0L Turbo 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.

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 is granted based on submitted emission test data generated on one test vehicle modified with the Jeep 4.0L Turbo Kit. Test results showed that emission levels, with the Jeep 4.0L Turbo 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) test cycle. Examination of the OBD II system showed that the Jeep 4.0L Turbo Kit did not affect OBD II system operation. Results from emission testing conducted at Auto Club Emissions Laboratory, located at Diamond Bar, California, are shown below, in grams per mile, with deterioration factors (df) applied to Cold-Start CVS-75 Federal Test Procedure modified test results.

2005 model year Jeep Wrangler	CVS-75 FTP			
	NMOG	CO	NOx	HCHO
Standards*	0.130	4.2	0.3	0.018
Device Test	0.049	0.8	0.05	0.001

	US06	
	NMHC+NOx	CO
Standards 4k	0.25	10.5
Device	0.08	9.3

\*USEPA Bin 9, Counted as LEV I 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 JEEP 4.0L TURBO KIT.

Marketing of the Jeep 4.0L Turbo Kit using any identification other than that shown in this Executive Order or marketing of the Jeep 4.0L Turbo 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.



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.

3.

This Executive Order shall not apply to any Jeep 4.0L Turbo 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 9<sup>th</sup> day of January 2014.

  
Erik White, Chief  
 Mobile Source Operations Division