

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-213-30

Relating to Exemptions Under Section 27156  
of the California Vehicle Code

Vortech Engineering, LLC  
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-02-003;

IT IS ORDERED AND RESOLVED: That the installation of the Supercharger Kit, manufactured and marketed by Vortech Engineering, LLC, 1650 Pacific Avenue, Oxnard, California 93033, 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 2007 to 2010 model year 4.6L Ford Mustangs.

The Supercharger System for the Ford 4.6L Mustang includes the following main parts: Centrifugal supercharger with either a 3.6 or 3.8 inch diameter pulley and a 6.6 inch diameter crankshaft pulley, intercooler (optional), supercharger by-pass valve, air intake tubing, open element air cleaner (applicable model years), ECU upgrade, mass air flow sensor housing, replacement high flow fuel pump, and fuel injectors. The open element air filter is for 2005 model year Mustangs built after April 30, 2005 and 2006 model year Mustangs only. The applicable stock air cleaner housing lid with the hydrocarbon adsorber or the hydrocarbon adsorber puck in the intake on **2005 model year Mustangs built on or before April 30, 2005, and 2007 to 2010 model year Mustangs** is retained. The stock radiator thermostat is retained. The breather hose may be replaced with an SAE30R9 rated hose. **Maximum boost is 12 psi.**

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

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.

Marketing of the Supercharger Kit using any identification other than that shown in this Executive Order or marketing of the 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 Supercharger Kit may have on any warranty either expressed or implied by the vehicle manufacturer.

This Executive Order is granted based on submitted emission test data generated on a 2010 model year 4.6L Mustang certified to the Low Emission Vehicle II Ultra Low Emission Vehicle (LEV II ULEV) emission standards, modified with the 12 psi. Supercharger Kit. Test results on the Mustang showed that emission levels, with Supercharger Kit installed, met the applicable emission standards when tested using the Cold-Start CVS-75 Federal Test Procedure (FTP) and the Supplemental Federal Test Procedure (SFTP US06/SC03) test cycles. Boost pressure was measured at 11.6 psi. Examination of the OBD II system showed the Supercharger Kit did not affect OBD II system operation. Results from emissions testing conducted at Quantum Technologies, Lake Forest, California are listed below with deterioration factors applied.

2010 model year Mustang	CVS-75 FTP			
	NMOG	CO	NOx	HCHO
Standards, UL	0.070	2.1	0.04	0.011
Device Test w/df	0.027	2.0	0.04	0.000

	US06/SC03	
	NMHC+NOx	CO
Standards 4k	0.14/0.20	8.0/2.7
Device	0.04/0.01	0.9/1.6

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.

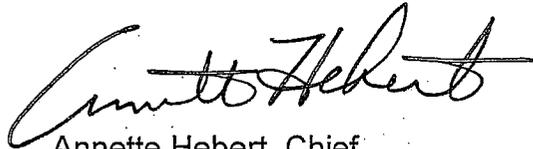
**THIS EXECUTIVE ORDER DOES NOT CONSTITUTE A CERTIFICATION, ACCREDITATION, APPROVAL, OR ANY OTHER TYPE OF ENDORSEMENT BY THE AIR RESOURCES BOARD OF ANY CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF THE SUPERCHARGER KIT.**

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.

3.

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 20 day of October 2011.

A handwritten signature in cursive script, appearing to read "Annette Hebert".

Annette Hebert, Chief  
Mobile Source Operations Division