

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-598-7

Relating to Exemptions Under Section 27156  
of the California Vehicle Code

Badillo Engineering  
Mustang GT Supercharger Kit, Series Part Number M-6066-MGT

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 Mustang GT Supercharger Kit, manufactured and marketed by Badillo Engineering, 6275 Stewart Lane, Ann Arbor, Michigan 48105, 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 the 2011 to 2012 model year Ford Mustangs equipped with a 5.0L V8 engine.

The Mustang GT Supercharger Kit, consists of the following main components: 2.3L Twin Screw Whipple supercharger using a 3.375 inch diameter pulley, intercooler, intake manifold, bypass valve, reflashed ECM, dual port throttlebody, new fuel injectors, modified air cleaner lid with stock hydrocarbon adsorber, and a new air intake tube from air cleaner to the throttlebody. The breather hose may be replaced with an SAE30R9 rated hose. Boost is limited to a maximum of 10 psi. The stock crankshaft pulley, mass air flow sensor element, fuel pump, and radiator thermostat are retained during installation. The mass air flow sensor element is reinstalled in the air cleaner lid which is the same location as stock.

This Executive Order is valid provided that the installation instructions for the Mustang GT Supercharger Kit will not recommend tuning the vehicle to specifications different from those of the kit manufacturer.

Changes made to the design or operating conditions of the Mustang GT 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 Mustang GT 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.

This Executive Order does not constitute any opinion as to the effect the use of the Mustang GT 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 one test vehicle modified with the Mustang GT 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) 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 the Roush Emissions Laboratory, located in Livonia, Michigan, are shown below (in grams per mile).

2012 Ford Mustang	CVS-75 FTP				SFTP US06/SC03	
	NMOG	CO	NOx	HCHO	NMHC+NOx	CO
Standards*	0.070	2.1	0.04	0.011	0.14/0.20	8.0/2.7
Device Test 1	0.016	0.9	0.02	0.000	0.06/0.06	1.4/0.6
Device Test 2	0.017	0.8	0.02	0.000		
Average	0.017	0.9	0.02	0.000		
Average w/df	0.050	1.2	0.03	0.001		

\*LEV II ULEV CVS-75 FTP Useful Life emissions standards.

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 MUSTANG GT SUPERCHARGER KIT.

Marketing of the Mustang GT Supercharger Kit using any identification other than that shown in this Executive Order or marketing of the Mustang GT 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.

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 14 day of October 2011.



Annette Hebert, Chief  
Mobile Source Operations Division