



## EXECUTIVE ORDER D-550-31

### Relating to Exemptions Under Section 27156 of the California Vehicle Code

#### Advanced Flow Engineering Magnum Force, Momentum, and Takeda Intake Systems

Pursuant to the authority vested in the California Air Resources Board (CARB) 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 Magnum Force, Momentum, and Takeda Intake Systems, produced and marketed by Advanced Flow Engineering of 252 Granite Street, Corona, California 92879, have been found not to reduce the effectiveness of the applicable vehicle pollution control systems and, therefore, are exempt from the prohibitions of Section 27156 of the Vehicle Code for the Ford vehicles listed in the attached Exhibit A.

The Magnum Force, Momentum, and Takeda Intake Systems include the following main components: reusable air filter, intake system tubing, hoses, assorted brackets, and hardware.

This Executive Order is valid provided that the installation instructions for the Magnum Force, Momentum, and Takeda Intake Systems 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 Magnum Force, Momentum, and Takeda Intake Systems, as exempt by the California 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 Advanced Flow Engineering Intake Systems 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 Magnum Force, Momentum, and Takeda Intake Systems using any identification other than that shown in this Executive Order or marketing of the Magnum Force, Momentum, and Takeda Intake Systems for an application other than those listed in this Executive Order shall be prohibited unless prior approval is obtained from the California Air Resources Board.

This Executive Order does not constitute any opinion as to the effect the use of the Magnum Force, Momentum, and Takeda Intake Systems may have on any warranty either expressed or implied by the vehicle manufacturer.

This Executive Order is granted based on emission test results in the modified configuration using the Cold-Start CVS-75 Federal Test Procedure, Supplemental Federal Test Procedure (FTP & SFTP), and an examination of the On-Board Diagnostic II (OBD II) systems. A 2016 Ford Mustang equipped with a 2.3L turbocharged engine (GFMXV02.3VJW, LEV3 ULEV70) was used for the evaluation of the Advanced Flow Engineering Intake Systems. Results from emissions testing conducted at SEMA Garage Emissions Compliance Center are shown below (in grams per mile):

FTP		NMOG + NOx	CO
	Emission Level	0.065	0.56
	STD	0.070	1.7
Composite SFTP		NMOG + NOx	CO
	Emission Level	0.061	0.6
	STD	0.090	4.2

The emission test results in the modified configuration were below the applicable certification standards. Examination of the OBD II system showed the Magnum Force, Momentum, and Takeda Intake Systems do not affect OBD II operation. Therefore, based on the test results, the staff concludes that the Magnum Force, Momentum, and Takeda Intake Systems meet the criteria for exempting general criteria parts.

The 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 the CARB with reason to suspect that the Magnum Force, Momentum, and Takeda Intake Systems will affect the durability of emission control systems, Advanced Flow Engineering 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.

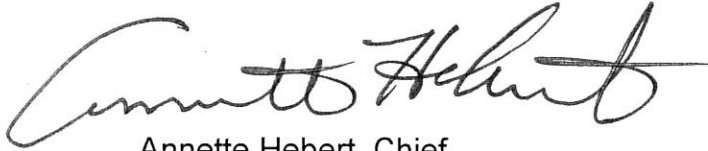
THIS EXECUTIVE ORDER DOES NOT CONSTITUTE A CERTIFICATION, ACCREDITATION, APPROVAL, OR ANY OTHER TYPE OF ENDORSEMENT BY THE CALIFORNIA AIR RESOURCES BOARD OF ANY CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF THE ADVANCED FLOW ENGINEERING MAGNUM FORCE, MOMENTUM, AND TAKEDA INTAKE SYSTEMS.

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 12 day of March 2018.

A handwritten signature in black ink, appearing to read "Annette Hebert", with a stylized, flowing script.

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

Part #	Make	Model-Year	Model	Engine
54-12822, 51-12822, 54-73201, 51-73201	FORD	2016	Mustang	2.3L Turbo
54-12822, 51-12822, 54-73201, 51-73201	FORD	2015	Mustang	2.3L Turbo
54-73202, 51-73202	FORD	2017	Mustang	3.7L
54-73202, 51-73202	FORD	2016	Mustang	3.7L
54-73202, 51-73202	FORD	2015	Mustang	3.7L
TR-5302B, TR-5302P	FORD	2009	FUSION	3.0L
TR-5302B, TR-5302P	MERCURY	2009	MILAN	3.0L
54-11312, 51-11312	FORD	2009	Mustang	4.0L
TR-5302B, TR-5302P	FORD	2008	FUSION	3.0L
TR-5302B, TR-5302P	MERCURY	2008	MILAN	3.0L
54-11312, 51-11312	FORD	2008	Mustang	4.0L
54-11312, 51-11312	FORD	2008	Mustang	4.0L
TR-5302B, TR-5302P	FORD	2007	FUSION	3.0L
TR-5302B, TR-5302P	MERCURY	2007	MILAN	3.0L
54-11312, 51-11312	FORD	2007	Mustang	4.0L
54-10291, 51-10291, 75-10291	FORD	2007	Mustang	4.0L
54-10291, 51-10291, 75-10291	FORD	2007	Mustang	4.0L
54-11312, 51-11312	FORD	2006	Mustang	4.0L
54-10291, 51-10291, 75-10291	FORD	2006	Mustang	4.0L
TR-5302B, TR-5302P	FORD	2007	FUSION	3.0L
TR-5302B, TR-5302P	MERCURY	2007	MILAN	3.0L
TR-5302B, TR-5302P	FORD	2006	FUSION	3.0L
TR-5302B, TR-5302P	MERCURY	2006	MILAN	3.0L
54-11312, 51-11312	FORD	2006	Mustang	4.0L
54-10293, 51-10293	FORD	2006	Mustang	4.6L
54-10292, 51-10292, 75-10292	FORD	2006	Mustang	4.6L
54-10291, 51-10291, 75-10291	FORD	2006	Mustang	4.6L
54-10291, 51-10291, 75-10291	FORD	2006	Mustang	4.0L
54-11312, 51-11312	FORD	2005	Mustang	4.0L
		2005	Mustang, Excluding models manufactured prior to April 2005, equipped with HC adsorber, Ford intake part numbers 6R33-9C662-BJ (manual trans) or 6R33-9C662-CF (auto trans).	
54-10293, 51-10293	FORD			4.6L

Part #	Make	Model-Year	Model	Engine
54-10292, 51-10292, 75-10292	FORD	2005	Mustang, Excluding models manufactured prior to April 2005, equipped with HC adsorber, Ford intake part numbers 6R33-9C662-BJ (manual trans) or 6R33-9C662-CF (auto trans).	4.6L
54-10291, 51-10291, 75-10291	FORD	2005	Mustang, Excluding models manufactured prior to April 2005, equipped with HC adsorber, Ford intake part numbers 6R33-9C662-BJ (manual trans) or 6R33-9C662-CF (auto trans).	4.6L
54-10291, 51-10291, 75-10291	FORD	2005	Mustang	4.0L
TR-5302B, TR-5302P	FORD	2006	FUSION	3.0L
TR-5302B, TR-5302P	MERCURY	2006	MILAN	3.0L