

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-550-28

Relating to Exemptions Under Section 27156
of the California Vehicle Code

Advanced Flow Engineering
Magnum Force and Momentum GT Intake Systems

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 Magnum Force and Momentum GT 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 and Momentum GT 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 and Momentum GT 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 and Momentum GT Intake Systems, 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 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 and Momentum GT Intake Systems using any identification other than that shown in this Executive Order or marketing of the Magnum Force and Momentum GT Intake Systems 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 Magnum Force and Momentum GT 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 (US06 & SFTP), and an examination of the On-Board Diagnostic II (OBD II) systems. A 2015 Ford F150 Pickup equipped with a 2.7L Ecoboost engine (FFMXT02.73JJ, LEV3 ULEV) was used for the evaluation of the Advanced Flow Engineering Intake Systems. Results from emissions testing conducted at the SEMA Garage Emissions Compliance Center are shown below (in grams per mile):

FTP		NMOG + NOx	CO
	Emission Level	0.069	0.48
	STD	0.070	1.7
Composite SFTP		NMOG + NOx	CO
	Emission Level	0.056	0.31
	STD	0.100	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 and Momentum GT Intake Systems do not affect OBD II operation. Therefore, based on the test results, the staff concludes that the Magnum Force and Momentum GT Intake Systems meet the criteria for exempting general criteria parts.

The ARB 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 ARB with reason to suspect that the Magnum Force and Momentum GT 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 AIR RESOURCES BOARD OF ANY CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF THE ADVANCED FLOW ENGINEERING MAGNUM FORCE AND MOMENTUM GT INTAKE SYSTEMS.

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 27th day of September 2017.



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

Part #	Make	Model	Model-Year	Engine Desc.
54-10001, 51-10001, 75-10001	FORD	Explorer Sport/Explorer Sport Trac	2004-2005	4.0L NA
54-10001, 51-10001, 75-10001	FORD	EXPLORER SPORT 2WD/EXPLORER SPORT 4WD	2001-2003	4.0L NA
54-10001, 51-10001, 75-10001	FORD	EXPLORER SPORT 2WD/EXPLORER SPORT 4WD/EXPLORER SPORT TRAC 2WD/EXPLORER SPORT TRAC 4WD	2001-2003	4.0L NA
54-10001, 51-10001, 75-10001	FORD	EXPLORER 2WD/EXPLORER 4WD	2000-2003	4.0L NA
54-10031, 51-10031, 75-10031	FORD	ESCAPE 2WD/ESCAPE 4WD	2001-2006	3.0L NA
54-10031, 51-10031, 75-10031	MAZDA	TRIBUTE 2WD/TRIBUTE 4WD	2001-2006	3.0L NA
54-10082, 51-10082, 75-10082	FORD	EXPEDITION	2005	4.6L NA
54-10082, 51-10082, 75-10082	FORD	F-150 2WD SHORT WHEELBASE/F-150 4WD SHORT WHEELBASE/F-150 SUPERCREW 2WD SHORT WHEELBASE	2002-2003	5.4L NA
54-10082, 51-10082, 75-10082	FORD	F-150 2WD LIGHTNING	2002-2004	5.4L NA
54-10082, 51-10082, 75-10082	FORD	EXPEDITION 2WD	2000-2001	4.6L NA
54-10082, 51-10082, 75-10082	FORD	F-150 2WD/F-150 4WD	1997-2005	4.6L NA
54-10082, 51-10082, 75-10082	FORD	F-150 2WD/F-150 4WD	1997-2005	5.4L NA
54-10082, 51-10082, 75-10082	FORD	EXPEDITION 2WD (WITH AIR SUSPENSION)/EXPEDITION 4WD (WITH AIR SUSPENSION)	2001-2002	4.6L NA
54-10082, 51-10082, 75-10082	FORD	EXPEDITION 2WD	2000-2002	5.4L NA
54-10082, 51-10082, 75-10082	FORD	EXPEDITION 2WD/EXPEDITION 4WD	1997-2005	5.4L NA
54-10082, 51-10082, 75-10082	FORD	EXPEDITION 2WD/EXPEDITION 4WD	1997-2002	4.6L NA
54-10301, 51-10301, 75-10301	FORD	F250/F350/F450/F550 SUPERDUTY	2006-2007	6.8L NA
54-10301, 51-10301, 75-10301	FORD	F-250 2WD/F-250 4WD	2005	6.8L NA
54-10301, 51-10301, 75-10301	FORD	F-350 2WD/F-350 4WD	2005	6.8L NA
54-10301, 51-10301, 75-10301	FORD	F-250 LONG BED DELETE/F-350 LONG BED DELETE/F-250 SHORT BED DELETE/F-350 SHORT BED DELETE	2003-2005	6.8L NA
54-10301, 51-10301, 75-10301	FORD	F-350 CHASSIS CAB	2005	6.8L NA
54-10331, 51-10331, 75-10331	FORD	EXCURSION 2WD/EXCURSION 4WD	2000-2004	5.4L NA
54-10331, 51-10331, 75-10331	FORD	EXCURSION	2001-2004	6.8L NA

54-10331, 51-10331, 75-10331	FORD	F-250 SHORT BED DELETE/F-350 SHORT BED DELETE/F-250 LONG BED DELETE/F-350 LONG BED DELETE	2003	5.4L NA
54-10331, 51-10331, 75-10331	FORD	F-250 2WD/F-250 4WD/F-350 2WD/F-350 4WD	1998-2003	5.4L NA
54-10331, 51-10331, 75-10331	FORD	F-250 2WD/F-250 4WD/F-350 2WD/F-350 4WD	2000-2004	6.8L NA
54-10331, 51-10331, 75-10331	FORD	F-250 4X2 CREW CAB SHORT/F-250 4X2 CREW CAB LONG/F-250 REG CAB LONG/F-250 4X2 SIPER CAB SHORT/F-250 4X2 SUPER CAB LONG/F-250 4X4 CREW CAB SHORT/F-250 4X4 CREW CAB LONG/F-250 4X4 REG CAB LONG/F-250 4X4 SUPER CAB SHORT/F-250 SUPER CAB LONG/F-350 4X2 CREW CAB SHORT/F-350 4X2 CREW CAB LONG/F-350 4X2 REG CAB LONG/F-350 4X2 SUPER CAB SHORT/F-350 4X2 SUPER CAB LONG/F-350 4X4 CREW CAB SHORT/F-350 4X4 CREW CAB LONG/F-350 4X4 REG CAB LONG/F-350 4X4 SUPER CAB SHORT/F-350 4X4 SUPER CAB LONG	1999	5.4L NA
54-10331, 51-10331, 75-10331	FORD	F-250/F-350	1998-1999	6.8L NA
54-10512, 51-10512, 75-10512	LINCOLN	MARK LT 2WD/MARK LT 4WD	2006-2008	5.4L NA
54-10512, 51-10512, 75-10512	FORD	F-150 2WD/F-150 4WD	2004-2007	5.4L NA
54-10512, 51-10512, 75-10512	FORD	F-150 2WD SC LIGHTNING	2004	5.4L NA
54-10542, 51-10542, 75-10542	FORD	E-350	2007	6.8L NA
54-10542, 51-10542, 75-10542	FORD	E-250 2WD	2005-2007	6.8L NA
54-10542, 51-10542, 75-10542	FORD	E-350 CUTAWAY/E-350 CHASSIS CAB/E-350 STRIPPED CHASSIS	2003-2006	6.8L NA
54-10542, 51-10542, 75-10542	FORD	E-350 2WD	2000-2004	6.8L NA
54-10542, 51-10542, 75-10542	FORD	E-350/E-450/E-550	1998-1999	6.8L NA
54-10542, 51-10542, 75-10542	FORD	E-350	1997	6.8L NA
54-10551, 51-10551, 75-10551	FORD	RANGER 2WD/RANGER 4WD	2004-2011	4.0L NA
54-10551, 51-10551, 75-10551	MAZDA	B4000 2WD/B4000 4WD	2004-2011	4.0L NA
54-10741, 51-10741, 75-10741	MAZDA	B3000 2WD/B3000 4WD	2005-2008	3.0L NA
54-10741, 51-10741, 75-10741	FORD	RANGER 2WD/RANGER 4WD	2005-2008	3.0L NA
54-10741, 51-10741, 75-10741	MAZDA	B3000 2WD	2003	3.0L NA
54-10741, 51-10741, 75-10741	FORD	RANGER 2WD	2003	3.0L NA
54-11122, 51-11122, 75-11122	Ford	F-150 4WD FFV	2007	5.4L NA

54-11122,51-11122, 75-11122	Ford	F-150 2WD/F-150 4WD/F-150 SUPER CREW 2WD/F-150 SUPER CREW 4WD	2006-2007	5.4L NA
54-11973-B, 54- 11973-P, 51-11973-B, 51-11973-P	Ford	F-250 2WD/F-250 4WD/F-350 2WD/F-350 4WD	2014	6.2L NA
54-11973-B, 54- 11973-P, 51-11973-B, 51-11973-P	Ford	F-250 BED DELETE 2WD/F-250 BED DELETE 4WD/F-350 BED DELETE 2WD/F-350 BED DELETE 4WD/F-350 2WD/F-350 4WD/F-350 2WD DRW/F-350 4WD DRW	2014	6.2L NA
54-11973-B, 54- 11973-P, 51-11973-B, 51-11973-P	Ford	F-350 2WD/F-350 4WD/F-250 2WD/F-250 4WD		6.2L NA
54-11973-B, 54- 11973-P, 51-11973-B, 51-11973-P	Ford	F-350 BED DELETE 2WD/F-350 BED DELETE 4WD/F-250 BED DELETE 2WD/F-250 BED DELETE 4WD/F-350 2WD DRW/F-350 4WD DRW/F-350 2WD/F-350 4WD/F-350 BED DELETE 2WD DRW/F-350 BED DELETE 4WD DRW	2013	6.2L NA
54-11973-B, 54- 11973-P, 51-11973-B, 51-11973-P	Ford	F-350 CAB CHASSIS 2WD/F-350 CAB CHASSIS 4WD	2013-2014	6.2L NA
54-11973-B, 54- 11973-P, 51-11973-B, 51-11973-P, 54- 12061-1, 51-12061-1	Ford	F-250 2WD/F-250 4WD/F-350 2WD/F-350 4WD	2015	6.2L NA
54-11973-B, 54- 11973-P, 51-11973-B, 51-11973-P, 54- 12061-1, 51-12061-1	Ford	F-250 BED DELETE 2WD/F-250 BED DELETE 4WD/F-350 BED DELETE 2WD/F-350 BED DELETE 4WD/F-350 2WD/F-350 4WD/F-350 2WD DRW/F-350 4WD DRW/F-350 BED DELETE 2WD DRW/F-350 BED DELETE 4WD DRW	2015	6.2L NA
54-11973-B, 54- 11973-P, 51-11973-B, 51-11973-P, 54- 12061-1, 51-12061-1	Ford	F-350 CAB CHASSIS 2WD/F-350 CAB CHASSIS 4WD	2015	6.2L NA
54-12061-1, 51- 12061-1	FORD	F-250 2WD/F-250 4WD/F-350 2WD/F-350 4WD	2014	6.2L NA
54-12061-1, 51- 12061-1	FORD	F-250 BED DELETE 2WD/F-250 BED DELETE 4WD/F-350 BED DELETE 2WD/F-350 BED DELETE 4WD/F-350 BED DELETE 2WD DRW/F- 350 BED DELETE 4WD DRW/F-350 2WD/F-350 4WD/F-350 2WD DRW/F-350 4WD DRW	2014	6.2L NA
54-12061-1, 51- 12061-1	FORD	F-350 CAB CHASSIS 2WD/F-350 CAB CHASSIS 4WD	2011-2014	6.2L NA
54-12061-1, 51- 12061-1	FORD	F-350 2WD/F-350 4WD/F-250 2WD/F-250 4WD	2013	6.2L NA
54-12061-1, 51- 12061-1	FORD	F-250/F-350	2011-2012	6.2L NA
54-12061-1, 51- 12061-1	FORD	F-150 2WD/F-150 4WD/F-150 RAPTOR 4WD	2011-2014	6.2L NA
54-12061-1, 51- 12061-1	FORD	F-150 2WD FFV/F-150 4WD FFV	2011-2014	3.7L NA
54-12113-B, 54- 12113-P, 51-12113-B, 51-12113-P	Ford	F-150 2WD/F-150 4WD	2011	3.5L Turbo

54-12182-P, 51-12182-P	Ford	F-150 2WD/F-150 4WD	2011	3.5L Turbo
54-12192, 54-12192-P, 51-12192, 51-12192-P, 75-12192	Ford	F-150 2WD/F-150 4WD	2012-2013	3.5L Turbo
54-12592, 51-12592	Ford	F-150 2WD FFV/F-150 4WD FFV	2014	3.7L NA
54-12592, 51-12592	Ford	EXPLORER AWD (Excluding test group DFMXT03.73E8), EXPLORER FWD	2013	3.7L NA
54-12592, 51-12592	Ford	F-150 2WD FFV/F-150 4WD FFV	2011-2012	3.7L NA
54-12622, 51-12622	Ford	EXPLORER AWD (Excluding test groups DFMXT03.73E8, EFMXV03.5VEP, FFMXV03.5VEP, GFMXV03.5VEP), EXPLORER FWD	2013-2016	3.5L Turbo
54-12622, 51-12622	Ford	EXPLORER 4WD/EXPLORER FWD	2012	3.5L Turbo
54-12642-B, 51-12642-B, 52-12642-H, 54-73112, 51-73112, 75-73112, 54-32642-B, 54-32642-1B, 51-32642-B, 51-32642-1B	Ford	F-150 2WD/F-150 4WD/F-150 SFE 2WD	2015	2.7L Turbo
54-12642-B, 51-12642-B, 52-12642-H, 54-73112, 51-73112, 75-73112, 54-32642-B, 54-32642-1B, 51-32642-B, 51-32642-1B, 54-12642-B, 51-12642-B, 52-12642-H	Ford	F-150 2WD FFV/F-150 4WD FFV	2015	3.5L Turbo
54-12642-B, 51-12642-B, 52-12642-H, 54-73112-1, 51-73112-1, 75-73112-1, 54-32642-B, 54-32642-1B, 51-32642-B, 51-32642-1B, 54-12642-1B, 51-12642-1B, 52-12642-1H	Ford	F-150 2WD/F-150 4WD	2016	2.7L Turbo
54-12642-B, 51-12642-B, 52-12642-H, 54-73112-1, 51-73112-1, 75-73112-1, 54-32642-B, 54-32642-1B, 51-32642-B, 51-32642-1B, 54-12642-B, 51-12642-B, 52-12642-H	Ford	F-150 2WD FFV/F-150 4WD FFV	2016	3.5L Turbo
54-12742, 51-12742, 54-73114, 51-73114, 75-73114	Ford	F-150 2WD FFV/F-150 4WD FFV	2016	5.0L NA
54-12742, 51-12742, 54-73114, 51-73114, 75-73114, 54-12061-1, 51-12061-1	Ford	F-150 2WD FFV/F-150 4WD FFV	2015	5.0L NA

54-32112-B, 51-32112-B, 75-32112-B	FORD	F-150 2WD/F-150 4WD	2012-2014	3.5L Turbo
55-10510	Ford	F-150 2WD/F-150 4WD/F-150 STX 2WD	2008	5.4L NA
55-10510	Ford	F-150 2WD SC LIGHTNING	2004	5.4L NA
55-10510	Ford	F-150 2WD/F-150 4WD	2004-2008	5.4L NA
F2-03008	MAZDA	B3000 2WD	2005-2008	3.0L NA
F2-03008	MAZDA	B3000 2WD/B3000 4WD	2005-2008	3.0L NA
F2-03008	FORD	RANGER 2WD/RANGER 4WD	2005-2008	3.0L NA
F2-03012	MAZDA	B3000 2WD	2004-2010	2.3L NA
F2-03012	FORD	RANGER 2WD	2004-2011	2.3L NA
F2-03013	MAZDA	B4000 2WD/B4000 4WD	2004-2010	4.0L NA
F2-03013	FORD	RANGER 2WD/RANGER 4WD	2004-2011	4.0L NA

