

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-550-1

Relating to Exemptions Under Section 27156
of the California Vehicle Code

Advanced Flow Engineering
Magnum Force Air 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-02-003;

IT IS ORDERED AND RESOLVED: That the installation of the Magnum Force Air Intake Systems, produced and marketed by Advanced Flow Engineering of 191 Granite Street, Corona, California 92879, 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 vehicles listed in the attached Exhibit A.

The Magnum Force Air Intake Systems include the following main components: open-element reusable air filter, intake system tubing, assorted brackets, and hardware.

This Executive Order is valid provided that the installation instructions for the **Magnum** Force Air 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 Air 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 Magnum Force Air 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 Air Intake Systems using any identification other than that shown in this Executive Order or marketing of the Magnum Force Air 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 Air 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 (FTP), the Supplemental Federal Test Procedure (SFTP US06), and an examination of the On-Board Diagnostic II (OBD II) system. A 2003 BMW 325i (3BMXV03.0UL2, LEV2 ULEV) was used for the **evaluation** of the Magnum Force Air Intake Systems. **Results** from emissions testing conducted at Automotive Testing and Development Services are shown below (in grams per mile):

FTP	50k	NMOG	CO	NOx	HCHO
	Emission Level	0.024	0.859	0.013	*
	(w. DF applied)				
	STD	0.040	1.7	0.05	0.008
	100k	NMOG	CO	NOx	HCHO
	Emission Level	0.027	0.945	0.015	*
	(w. DF applied)				
	STD	0.055	2.1	0.07	0.011
US06		NMHC + NOx		CO	
	Measured	0.036		0.64	
	Standard	0.14		8.0	

The emission test results in the modified configuration were below the applicable certification standards. Examination of the OBD II system showed the Magnum Force Air Intake Systems does not affect OBD II operation. Therefore, based on the test **results**, the staff concludes that the Magnum Force Air Intake Systems meets 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 Air 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 AIR 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 5 day of February 2007.



Annette Hebert, Chief
Mobile Source Operations Division

Part No.	Make	Model	Model-Year	Engine	Config	Fuel
54-10001	Ford	Explorer	1998-2001	4.0	V6	Gas
54-10001	Ford	Explorer Sport	2000-2003	4.0	V6	Gas
54-10001	Ford	Explorer Sport Trac	2000-2003	4.0	V6	Gas
54-10001	Mercury	Mountaineer	1998-2001	4.0	V6	Gas
54-10001	Ford	Ranger	1998-2003	4.0	V6	Gas
54-10021	Mazda	Pickup	1998-2003	2.5	I4	Gas
54-10021	Ford	Ranger	1998-2003	2.5	I4	Gas
54-10021	Mazda	Pickup	1998-2003	3.0	V6	Gas
54-10021	Ford	Ranger	1998-2003	3.0	V6	Gas
54-10031	Ford	Escape	2001-2003	3.0	V6	Gas
54-10031	Mazda	Tribute	2001-2003	3.0	V6	Gas
54-10061	Ford	Excursion	2000-2001	7.3	V8	Diesel
54-10061	Ford	F250 Pickup	1999.5-2001	7.3	V8	Diesel
54-10061	Ford	F350 Pickup	1999.5-2001	7.3	V8	Diesel
54-10092	GMC	Sierra 1500	1999-2003	4.8	V8	Gas
54-10092	Chevrolet	Silverado 1500	1999-2003	4.8	V8	Gas
54-10092	Chevrolet	Tahoe	2000-2003	4.8	V8	Gas
54-10092	GMC	Yukon	2000-2003	4.8	V8	Gas
54-10092	Chevrolet	Avalanche 1500	2002-2003	5.3	V8	Gas
54-10092	Cadillac	Escalade	2002-2003	5.3	V8	Gas
54-10092	Cadillac	Escalade ESV	2003	5.3	V8	Gas
54-10092	GMC	Sierra 1500	1999-2003	5.3	V8	Gas
54-10092	GMC	Sierra 2500	1999-2000	5.3	V8	Gas
54-10092	Chevrolet	Silverado 1500	1999-2003	5.3	V8	Gas
54-10092	Chevrolet	Silverado 2500	1999-2000	5.3	V8	Gas
54-10092	Chevrolet	Suburban 1500	2000-2003	5.3	V8	Gas
54-10092	Chevrolet	Tahoe	2000-2003	5.3	V8	Gas
54-10092	GMC	Yukon	2000-2003	5.3	V8	Gas
54-10092	GMC	Yukon XL 1500	2000-2003	5.3	V8	Gas
54-10092	Cadillac	Escalade	2002-2003	6.0	V8	Gas
54-10092	Cadillac	Escalade ESV	2003	6.0	V8	Gas
54-10092	Cadillac	Escalade EXT	2002-2003	6.0	V8	Gas
54-10092	GMC	Sierra 1500 HD	2001-2003	6.0	V8	Gas
54-10092	GMC	Sierra 2500	1999-2003	6.0	V8	Gas
54-10092	GMC	Sierra 2500 HD	1999-2003	6.0	V8	Gas
54-10092	GMC	Sierra 3500 HD	2001-2003	6.0	V8	Gas
54-10092	Chevrolet	Silverado 1500 HD	2001-2003	6.0	V8	Gas
54-10092	Chevrolet	Silverado 1500 SS	2003	6.0	V8	Gas
54-10092	Chevrolet	Silverado 2500	1999-2003	6.0	V8	Gas
54-10092	Chevrolet	Silverado 2500 HD	1999-2003	6.0	V8	Gas
54-10092	Chevrolet	Silverado 3500	2001-2003	6.0	V8	Gas
54-10092	Chevrolet	Suburban 2500	2000-2003	6.0	V8	Gas
54-10092	GMC	Yukon Denali	2001-2003	6.0	V8	Gas
54-10092	GMC	Yukon XL Denali 1500	2001-2003	6.0	V8	Gas
54-10102	Toyota	Sequoia	2001-2003	4.7	V8	Gas
54-10102	Toyota	Tundra	2000-2002	4.7	V8	Gas
54-10112	Dodge	1500 Series Pickup	1994-2001	5.2	V8	Gas
54-10112	Dodge	1500 Series Pickup	1994-2001	5.9	V8	Gas
54-10121	GMC	Sierra 2500 HD	2001-early 2004	6.6	V8	Diesel
54-10121	GMC	Sierra 3500 HD	2001-early 2004	6.6	V8	Diesel
54-10121	Chevrolet	Silverado 2500 HD	2001-early 2004	6.6	V8	Diesel

Part No.	Make	Model	Model-Year	Engine	Config	Fuel
54-10121	Chevrolet	Silverado 3500 HD	2001-early 2004	6.6	V8	Diesel
54-10122	GMC	Sierra 2500 HD	2001-early 2004	6.6	V8	Diesel
54-10122	GMC	Sierra 3500 HD	2001-early 2004	6.6	V8	Diesel
54-10122	Chevrolet	Silverado 2500 HD	2001-early 2004	6.6	V8	Diesel
54-10122	Chevrolet	Silverado 3500 HD	2001-early 2004	6.6	V8	Diesel
54-10132	Dodge	Dakota	2000-2003	5.9	V8	Gas
54-10132	Dodge	Durango	2000-2003	5.9	V8	Gas
54-10152	Jeep	Wrangler YJ	1991-1995	4.0	I6	Gas
54-10162	Jeep	Grand Cherokee	1999-2003	4.7	V8	Gas
54-10192	Ford	Excursion	2000-2003	7.3	V8	Diesel
54-10192	Ford	F250 Pickup	1999.5-2003	7.3	V8	Diesel
54-10192	Ford	F350 Pickup	1999.5-2003	7.3	V8	Diesel
54-10202	Toyota	4 Runner	1999-2002	3.4	V6	Gas
54-10202	Toyota	Tacoma	1999-2003	3.4	V6	Gas
54-10261	Ford	Harley Davidson	1999-2003	5.4	V8	Gas
54-10261	Ford	Lightning	1999-2003	5.4	V8	Gas
54-10272	Ford	F250 Pickup	1994-1997	7.3	V8	Diesel
54-10272	Ford	F350 Pickup	1994-1997	7.3	V8	Diesel
54-10282	Ford	Mustang	1999-2004	4.6	V8	Gas
54-10352	Chrysler	PT Cruiser (non turbo)	2001-2003	2.4	I4	Gas
54-10362	Dodge	Dakota	1997-1999	5.2	V8	Gas
54-10362	Dodge	Durango	1998-1999	5.2	V8	Gas
54-10362	Dodge	Dakota	1997-1999	5.9	V8	Gas
54-10362	Dodge	Durango	1998-1999	5.9	V8	Gas
54-10372	Dodge	Dakota	2000-2003	4.7	V8	Gas
54-10372	Dodge	Durango	2000-2003	4.7	V8	Gas
54-10382	Dodge	1500 Series Pickup	2003	5.7	V8	Gas
54-10382	Dodge	2500 Series Pickup	2003	5.7	V8	Gas
54-10382	Dodge	3500 Series Pickup	2003	5.7	V8	Gas
54-10391	Ford	Excursion	2003-2004	6.0	V8	Diesel
54-10391	Ford	F250 Pickup	2003-2004	6.0	V8	Diesel
54-10391	Ford	F350 Pickup	2003-2004	6.0	V8	Diesel
54-10401	Hummer	H2	2003-2004	6.0	V8	Gas
54-10411	Dodge	2500 Series Pickup	2003-2004	5.9	I6	Diesel
54-10411	Dodge	3500 Series Pickup	2003-2004	5.9	I6	Diesel
54-10422	Jeep	Cherokee	1991-2001	4.0	I6	Gas
54-10431	Dodge	Neon	2000-2003	2.0	I4	Gas
54-10441	BMW	325	2001-2003	2.5	I6	Gas
54-10451	BMW	328	1999-2000	2.8	I6	Gas
54-10451	BMW	330	2001-2003	3.0	I6	Gas
54-10471	BMW	540	1997-2003	4.4	V8	Gas
75-10061	Ford	Excursion	2000-2001	7.3	V8	Diesel
75-10061	Ford	F250 Pickup	1999.5-2001	7.3	V8	Diesel
75-10061	Ford	F350 Pickup	1999.5-2001	7.3	V8	Diesel
75-10092	GMC	Sierra 1500	1999-2003	4.8	V8	Gas
75-10092	Chevrolet	Silverado 1500	1999-2003	4.8	V8	Gas
75-10092	Chevrolet	Tahoe	2000-2003	4.8	V8	Gas
75-10092	GMC	Yukon	2000-2003	4.8	V8	Gas
75-10092	Chevrolet	Avalanche 1500	2002-2003	5.3	V8	Gas
75-10092	Cadillac	Escalade	2002-2003	5.3	V8	Gas
75-10092	Cadillac	Escalade ESV	2003	5.3	V8	Gas

Part No.	Make	Model	Model-Year	Engine	Config	Fuel
75-10092	GMC	Sierra 1500	1999-2003	5.3	V8	Gas
75-10092	GMC	Sierra 2500	1999-2000	5.3	V8	Gas
75-10092	Chevrolet	Silverado 1500	1999-2003	5.3	V8	Gas
75-10092	Chevrolet	Silverado 2500	1999-2000	5.3	V8	Gas
75-10092	Chevrolet	Suburban 1500	2000-2003	5.3	V8	Gas
75-10092	Chevrolet	Tahoe	2000-2003	5.3	V8	Gas
75-10092	GMC	Yukon	2000-2003	5.3	V8	Gas
75-10092	GMC	Yukon XL 1500	2000-2003	5.3	V8	Gas
75-10092	Cadillac	Escalade	2002-2003	6.0	V8	Gas
75-10092	Cadillac	Escalade ESV	2003	6.0	V8	Gas
75-10092	Cadillac	Escalade EXT	2002-2003	6.0	V8	Gas
75-10092	GMC	Sierra 1500 HD	2001-2003	6.0	V8	Gas
75-10092	GMC	Sierra 2500	1999-2003	6.0	V8	Gas
75-10092	GMC	Sierra 2500 HD	1999-2003	6.0	V8	Gas
75-10092	GMC	Sierra 3500 HD	2001-2003	6.0	V8	Gas
75-10092	Chevrolet	Silverado 1500 HD	2001-2003	6.0	V8	Gas
75-10092	Chevrolet	Silverado 1500 SS	2003	6.0	V8	Gas
75-10092	Chevrolet	Silverado 2500	1999-2003	6.0	V8	Gas
75-10092	Chevrolet	Silverado 2500 HD	1999-2003	6.0	V8	Gas
75-10092	Chevrolet	Silverado 3500	2001-2003	6.0	V8	Gas
75-10092	Chevrolet	Suburban 2500	2000-2003	6.0	V8	Gas
75-10092	GMC	Yukon Denali	2001-2003	6.0	V8	Gas
75-10092	GMC	Yukon XL Denali 1500	2001-2003	6.0	V8	Gas
75-10121	GMC	Sierra 2500 HD	2001-early 2004	6.6	V8	Diesel
75-10121	GMC	Sierra 3500 HD	2001-early 2004	6.6	V8	Diesel
75-10121	Chevrolet	Silverado 2500 HD	2001-early 2004	6.6	V8	Diesel
75-10121	Chevrolet	Silverado 3500 HD	2001-early 2004	6.6	V8	Diesel
75-10122	GMC	Sierra 2500 HD	2001-early 2004	6.6	V8	Diesel
75-10122	GMC	Sierra 3500 HD	2001-early 2004	6.6	V8	Diesel
75-10122	Chevrolet	Silverado 2500 HD	2001-early 2004	6.6	V8	Diesel
75-10122	Chevrolet	Silverado 3500 HD	2001-early 2004	6.6	V8	Diesel
75-10192	Ford	Excursion	2000-2001	7.3	V8	Diesel
75-10192	Ford	F250 Pickup	1999.5-2001	7.3	V8	Diesel
75-10192	Ford	F350 Pickup	1999.5-2001	7.3	V8	Diesel
75-10272	Ford	F250 Pickup	1994-1998	7.3	V8	Diesel
75-10272	Ford	F350 Pickup	1994-1998	7.3	V8	Diesel
75-10391	Ford	Excursion	2003-2004	6.0	V8	Diesel
75-10391	Ford	F250 Pickup	2003-2004	6.0	V8	Diesel
7510391	Ford	F350 Pickup	2003-2004	6.0	V8	Diesel
7510401	Hummer	H2	2003-2004	6.0	V8	Gas
7510411	Dodge	2500 Series Pickup	2003-2004	5.9	I6	Diesel
75-10411	Dodge	3500 Series Pickup	2003-2004	5.9	I6	Diesel