

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-161-80

Relating to Exemptions Under Section 27156
of the California Vehicle Code

Gale Banks Engineering
Ram-Air Intake

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 Ram-Air Intake, manufactured and marketed by Gale Banks Engineering, 546 Duggan Avenue, Azusa, California 91702, 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 following vehicles applications.

<u>Model Year</u>	<u>Make</u>	<u>Model</u>	<u>Engine</u>	<u>Part No.</u>
1997 to 2006	Jeep	Wrangler	4.0L	49186
2004 to 2008	Ford	F-150	5.4L	49089
2004 to 2008	Nissan	Titan	5.6L	41820
2004 to 2008	Nissan	Armada	5.6L	41820
2004 to 2008	Nissan	Infinit QX56	5.6L	41820
2003 to 2007	Ford	Pickup w/ Power Stroke Diesel	6.0L	42155
2008	Ford	Pickup w/ Power Stroke Diesel	6.4L	42185
2006 to 2008	Ford	Class-A MH	6.8L	49191
1997 to 2006	Ford	Class-A MH	6.8L	49190
1997 to 2004	Ford	Pickup/Excursion	6.8L	49237
1987 to 1998	Ford	Pickup	460ci	49216
1987 to 1998	Ford	Pickup	460ci	41806

The Ram-Air Intakes are designed to replace the stock air filter housing and intake tubing with a new air filter housing and intake tubing. The stock mass air flow sensor is retained.

This Executive Order is valid provided that the installation instructions for the Ram-Air Intake 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 Ram-Air Intakes, 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 Ram-Air Intakes 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 Ram-Air Intakes using any identification other than that shown in this Executive Order or marketing of the Ram-Air Intakes 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 Ram-Air Intakes 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 2006 model year 4.0L Jeep Wrangler, certified to the Low Emission Vehicle I Ultra Low Emission Vehicle (LEV I ULEV) emission standards and a 2007 model year 5.4L Ford F-150, certified to the Low Emission Vehicle II Ultra Low Emission Vehicle (LEV II ULEV) emission standards and both modified with the Ram-Air Intake. Test results showed that emission levels, with the Ram-Air Intake 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 the Ram-Air Intake did not affect OBD II system operation. Results from emissions testing conducted at Quantum Technologies, Lake Forest, California, are shown below (in grams per mile with deterioration factors applied).

2006 Jeep	CVS-75 FTP				SFTP	US06
	NMOG	CO	NOx	HCHO	NMHC+NOx	CO
Standards, 50k	0.100	3.4	0.20	0.015	0.25	10.5
Device Test	0.046	0.8	0.01	0.001	0.03	0.7

2007 F-150	CVS-75 FTP				SFTP	CO
	NMOG	CO	NOx	HCHO	NMHC+NOx	CO
Standards, UL	0.070	2.1	0.04	0.011	1.49(composite)	13.2 (US06)
Device Test	0.043	0.9	0.03	0.001	0.04	1.8

Similar effect on vehicle emissions is expected with the installation of the Ram-Air Intakes on vehicles listed in this Executive Order.

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 RAM-AIR INTAKES.

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 29 day of September 2008.



Annette Hebert, Chief
Mobile Source Operations Division