

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-526-4

Relating to Exemptions under  
Section 27156 of the Vehicle Code

Volant Performance  
Cool Air Intake Kits

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 Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the installation of the Cool Air Intake Kits, produced and marketed by Volant Performance, 10285 Indiana Court, Rancho Cucamonga, California 91730, has been found not to reduce the effectiveness of the applicable vehicle pollution control systems, and therefore, is exempt from the prohibitions in Section 27156 of the Vehicle Code for installation on those vehicles listed in the attached Exhibit A.

The Volant Performance Cool Air Intake Kits include the following main components: open-element air filter, filter enclosure (as applicable), intake system tubing, crankcase ventilation hose (as applicable), assorted brackets, and hardware.

This Executive Order is valid provided that installation instructions for the Volant Performance Cool Air Intake Kits do not recommend tuning the vehicles to specifications different from those of the vehicle manufacturer.

Changes made to the design or operating conditions of the Volant Performance Cool Air Intake Kits, as exempt by the Air Resources Board, which adversely affect the performance of the vehicles' emission control system, shall invalidate this Executive Order.

Marketing of the Volant Performance Cool Air Intake Kits using any identification other than that shown in this Executive Order or for an application other than that listed in this Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board. Exemption of the Volant Performance Cool Air Intake Kits shall not be construed as exemption to sell, offer for sale, or advertise any component of the system as an individual device.

This Executive Order shall not apply to any Volant Performance Cool Air Intake Kits advertised, offered for sale, sold with, or installed on a 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 Volant Performance Cool Air Intake Kits may have on any warranty either expressed or implied by the vehicle manufacturer.

This Executive Order is granted based on prior evaluations utilizing a 2002 Chrysler PT Cruiser (engine family 2RXV0148V40, ULEV, PC) and a 2007 Chevrolet Tahoe 5.3L (engine family 7GMXT05.3380, LEV II ULEV) which resulted in the issuance of Executive Orders D-526 and D-526-1, respectively. Additionally, emission testing in the modified configuration using the Cold-Start CVS-75 Federal Test Procedure, Supplemental Federal Test Procedure (US06), and an examination of the On-Board Diagnostic II (OBD II) system were conducted on a 2009 Dodge Charger R/T with a 5.7 liter engine (engine family 9CRXV05.7UPO, LEV II ULEV) to evaluate the Cool Air Intake Kit. Results from emissions testing conducted at Automobile Club of Southern California, are shown below (in grams per mile):

| FTP  | 120K                                 | <u>NMOG</u>       | <u>CO</u> | <u>NOx</u> | <u>HCHO</u> |
|------|--------------------------------------|-------------------|-----------|------------|-------------|
|      | Emission Level<br>(Avg., DF applied) | 0.060             | 0.883     | 0.015      | 0.0029      |
|      | STD                                  | 0.070             | 2.1       | 0.4        | 0.011       |
| US06 |                                      | <u>NMHC + NOx</u> | <u>CO</u> |            |             |
|      | Emission Level                       | 0.093             | 0.901     |            |             |
|      | STD                                  | 0.140             | 8.0       |            |             |

The emission test results in the modified configuration were below the applicable certification standards. Examination of the OBD II system showed the Cool Air Intake Kits do not affect OBD II operation.

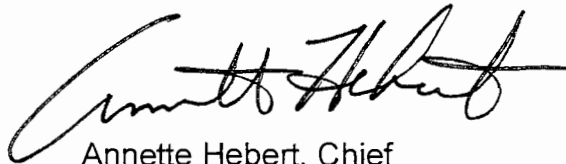
The Air Resources Board reserves the right in the future to review this Executive Order and the exemption provided herein to assure that the exempted add-on or modified part continues to meet the standards and procedures of California Code of Regulations, Title 13, Section 2222, et seq. Further, if test results or other evidence provides the ARB with reason to suspect that the Volant Performance Cool Air Intake Kits will affect the durability of emission control systems, Volant Performance 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 parts demonstrate 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 VOLANT PERFORMANCE'S COOL AIR INTAKE KITS.**

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 Executive Order. The Executive Order may be revoked only after a ten day written notice of intention to revoke the Executive Order, in which period the holder of the Executive 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 Executive Order may not be revoked until a determination is made after the hearing that grounds for revocation exist.

Executed at El Monte, California, this 22 day of February 2012.

A handwritten signature in black ink, appearing to read "Annette Hebert", written in a cursive style.

Annette Hebert, Chief  
Mobile Source Operations Division

Exhibit A

| MAKE     | MODEL           | MODEL YEAR | DISP (L)    | COOL AIR INTAKE P/N |
|----------|-----------------|------------|-------------|---------------------|
| Chrysler | 300             | 2004-2010  | 5.7         | 16857152            |
| Chrysler | 300             | 2004-2010  | 6.1         | 16861               |
| Dodge    | Challenger      | 2008-2010  | 5.7         | 16857154            |
| Dodge    | Charger/Magnum  | 2004-2010  | 6.1         | 16861               |
| Dodge    | Charger         | 2005-2010  | 5.7         | 16857153            |
| Dodge    | Magnum          | 2004-2010  | 5.7         | 16857151            |
| Dodge    | Dakota/Durango  | 1997-1999  | 3.9/5.2     | 26852               |
| Dodge    | Dakota/Durango  | 1999-2002  | 3.9/5.2     | 26952               |
| Dodge    | Dakota/Durango  | 1999-2002  | 4.7         | 26847               |
| Dodge    | Durango         | 1997-1999  | 3.9/5.2     | 16852               |
| Dodge    | Durango         | 2004-2006  | 5.7         | 16957               |
| Dodge    | Neon            | 2000-2005  | 2.0         | 26420C              |
| Dodge    | Nitro           | 2007-2009  | 2.8         | 166286              |
| Dodge    | Nitro           | 2007-2009  | 3.7         | 166376              |
| Dodge    | Nitro           | 2007-2011  | 4.0         | 168406              |
| Dodge    | Ram             | 1994-2000  | 3.9/5.2/5.9 | 16859               |
| Dodge    | Ram 1500 / 2500 | 2001       | 3.9/5.2/5.9 | 16959               |
| Dodge    | Ram 1500 / 2500 | 2002-2006  | 5.9         | 16059               |
| Dodge    | Ram 1500 / 2500 | 2002-2007  | 4.7         | 16847               |
| Dodge    | Ram 1500 / 2500 | 2002-2007  | 4.7         | 168476              |
| Dodge    | Ram 1500 / 2500 | 2002-2008  | 5.7         | 16857               |
| Dodge    | Ram 1500 / 2500 | 2002-2008  | 5.7         | 168576              |
| Dodge    | Ram 1500 SRT 10 | 2004-2006  | 8.3         | 16083               |
| Dodge    | Ram 1500        | 2009-2012  | 5.7         | 160576              |
| Dodge    | Viper           | 2003-2006  | 8.3         | 26083150            |
| Jeep     | Cherokee        | 1991-2003  | 4.0         | 27740               |
| Jeep     | Cherokee        | 2005-2009  | 6.1         | 17861               |
| Jeep     | Grand Cherokee  | 1999-2004  | 4.7         | 27847               |
| Jeep     | Liberty         | 2002-2005  | 3.7         | 27637               |
| Jeep     | Wrangler        | 1997-2006  | 4.0         | 27640               |
| Jeep     | Wrangler        | 1998-1999  | 4.0         | 17640               |
| Jeep     | Wrangler        | 2000-2006  | 4.0         | 17540               |
| Jeep     | Wrangler        | 2007-2011  | 3.8         | 17638               |

| MAKE      | MODEL               | MODEL YEAR | DISP (L)        | COOL AIR INTAKE P/N |
|-----------|---------------------|------------|-----------------|---------------------|
| Cadillac  | Escalade/EXT/ESV    | 2009-2012  | 6.2             | 15453               |
| Cadillac  | Escalade/EXT/ESV    | 2009-2012  | 6.2             | 154536              |
| Chevrolet | Silverado           | 2009-2012  | 4.8/5.3/6.0/6.2 | 15453               |
| Chevrolet | Silverado           | 2009-2012  | 4.8/5.3/6.0/6.2 | 154536              |
| Chevrolet | Avalanche           | 2009-2012  | 5.3/6.0         | 15453               |
| Chevrolet | Avalanche           | 2009-2012  | 5.3/6.0         | 154536              |
| Chevrolet | Tahoe               | 2009-2012  | 5.3/6.0         | 15453               |
| Chevrolet | Tahoe               | 2009-2012  | 5.3/6.0         | 154536              |
| Chevrolet | Suburban            | 2009-2012  | 5.3/6.0         | 15453               |
| Chevrolet | Suburban            | 2009-2012  | 5.3/6.0         | 154536              |
| GMC       | Sierra              | 2009-2012  | 4.8/5.3/6.0/6.2 | 15453               |
| GMC       | Sierra              | 2009-2012  | 4.8/5.3/6.0/6.2 | 154536              |
| GMC       | Yukon               | 2009-2012  | 4.8/5.3/6.0/6.2 | 15453               |
| GMC       | Yukon               | 2009-2012  | 4.8/5.3/6.0/6.2 | 154536              |
| GMC       | Denali, XL          | 2009-2012  | 6.2             | 15453               |
| GMC       | Denali, XL          | 2009-2012  | 6.2             | 154536              |
| Ford      | Ford F150           | 2009-2011  | 4.6             | 19146               |
| Ford      | Ford F150           | 2009-2011  | 4.6             | 191466              |
| Ford      | Ford F150           | 2009-2011  | 5.4             | 19154               |
| Ford      | Ford F150           | 2009-2011  | 5.4             | 191546              |
| Ford      | Ford F150           | 2010-2011  | 6.2             | 19162               |
| Nissan    | Frontier/Xterra     | 2001-2004  | 3.3             | 12633               |
| Nissan    | Frontier/Xterra     | 2008-2011  | 4.0             | 12540               |
| Nissan    | Pathfinder          | 2008-2011  | 4.0             | 12540               |
| Nissan    | Frontier/Xterra     | 2008-2011  | 4.0             | 125406              |
| Nissan    | Pathfinder          | 2008-2011  | 4.0             | 125406              |
| Nissan    | Frontier/Pathfinder | 2004-2008  | 4.0             | 12640               |
| Nissan    | Frontier/Pathfinder | 2004-2008  | 4.0             | 126406              |
| Nissan    | Xterra              | 2005-2008  | 4.0             | 12740               |
| Nissan    | Titan/Armada        | 2004-2012  | 5.6             | 12856               |
| Nissan    | Titan/Armada        | 2004-2012  | 5.6             | 128566              |
| Nissan    | 350Z                | 2003-2006  | 3.5             | 12635               |
| Infinity  | QX56                | 2004-2011  | 5.6             | 12856               |
| Infinity  | QX56                | 2004-2011  | 5.6             | 128566              |

## EVALUATION SUMMARY

Manufacturer Name: Volant Performance

Name of Device: Cool Air Intake Kits

Background:

Volant Performance of 10285 Indiana Court, Rancho Cucamonga, California 91730, has applied for an exemption from the prohibitions in Section 27156 of the California Vehicle Code (VC) for the Cool Air Intake Kits designed for the vehicles specified in D-526-4, Exhibit A.

Recommendation:

Grant exemption to Volant Performance as requested and issue Executive Order D-526-4.

Device Description:

Volant Performance's Cool Air Intake Kits are air intake systems specifically designed for installation on the vehicles listed in Exhibit A. The installation of the system does not require any major modifications to the original power train and emission control system, except for the modification of the factory air intake system to accommodate the Cool Air Intake Kit air filter and plumbing. On some models, relocation of the crankcase ventilation hose is required. In these cases, the Cool Air Intake Kits are supplied with crankcase ventilation hoses (as applicable, which may be silicone, and a color other than black). The Pro-5 filter element used in the Cool Air Intake Kits are an open-element, reusable oiled high grade cotton gauze filter media between a top and bottom aluminum screen, designed to be less restrictive than the original air filter.

The Cool Air Intake Kits are intended to increase the vehicle's volumetric efficiency and power output at particular engine loads and throttle openings. At heavy engine loads and increased throttle openings, the airflow into the engine is increased because the Cool Air Intake Kits are less restrictive than stock air filters. This allows more air to enter the engine, which is compensated by the vehicle engine control module with an increase in fuel flow, resulting in a higher power output. However, the fuel enrichment is limited and the typical net effect is an overall leaning effect of the fuel mixture. The leaning effect is manifested in a marginal, but measurable, NOx increase.

Discussion/Basis for the Recommendation:

This Executive Order is granted based on prior evaluations utilizing a 2002 Chrysler PT Cruiser (engine family 2RXV0148V40, ULEV, PC) and a 2007 Chevrolet Tahoe 5.3L (engine family 7GMXT05.3380, LEV II ULEV) which resulted in the issuance of Executive Orders D-526 and D-526-1, respectively. Additionally, emission testing in the modified configuration using the Cold-Start CVS-75 Federal Test Procedure, Supplemental Federal Test Procedure (US06), and an examination of the On-Board Diagnostic II (OBD II) system were conducted on a 2009 Dodge Charger R/T with a 5.7 liter engine (engine family 9CRXV05.7UPO, LEV II ULEV) to evaluate the

Cool Air Intake Kit. Results from emissions testing conducted at Automobile Club of Southern California Emissions Laboratory, are shown below (in grams per mile):

2009 Dodge Charger

| FTP | 120k                              | <u>NMOG</u> | <u>CO</u> | <u>NOx</u> | <u>HCHO</u> |
|-----|-----------------------------------|-------------|-----------|------------|-------------|
|     | Emission Level<br>(w. DF applied) | 0.060       | 0.883     | 0.015      | 0.0029      |
|     | STD                               | 0.070       | 2.1       | 0.4        | 0.011       |

| US06 |                | <u>NMHC + NOx</u> | <u>CO</u> |
|------|----------------|-------------------|-----------|
|      | Emission Level | 0.093             | 0.901     |
|      | STD            | 0.140             | 8.0       |

The emission test results in the modified configuration were below the applicable certification standards. Examination of the OBD II system showed the Cool Air Intake Kits do not affect OBD II operation.

The staff concludes that the Cool Air Intake Kits meet the requirements for a VC 27156 exemption for installation on the vehicles specified in the attached Exhibit A.