State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-213-21
Relating to Exemptions Under Section 27156
Of the Vehicle Code

Vortech Engineering Inc.
Supercharger System

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 Supercharger System manufactured and marketed by Vortech Engineering Inc., 1650 Pacific Avenue, Channel Islands, CA 93033, has been found not to reduce the effectiveness of the applicable vehicle pollution control system and, therefore, is exempt from the prohibitions of Section 27156 of the Vehicle Code for those vehicles listed in Exhibit A of this Executive Order.

The Supercharger System includes a supercharger, an intercooler assembly (as applicable), a fuel pump, a fuel management unit, a manifold air pressure sensor bleed assembly, and the brackets and ducting for mounting and to route air to the intake manifold. The supercharger and crankshaft pulley diameters are listed in Exhibit A of this Executive Order. The supercharger produces a maximum of 6.5 psi of boost pressure.

This Executive Order is valid provided that the installation instructions for the Supercharger System will not recommend tuning the vehicle to specifications different from those submitted by the device manufacturer.

This Executive Order shall not apply to any Vortech Engineering Inc. Supercharger System advertised, offered for sale, sold with, or installed on a motor vehicle prior to or concurrent with the transfer to an ultimate purchaser.

Changes made to the design or operating conditions of the Supercharger System, as exempted by the Air Resources Board, which adversely affect the performance of the vehicle's pollution control system shall invalidate this Executive Order.

Marketing of the Supercharger System using any identification other than that shown in this Executive Order or marketing of the Supercharger System for an application other than those listed in this Executive Order shall be prohibited unless prior approval is obtained from the Air

Resources Board. Exemption of the system shall not be construed as exemption to sell, offer for sale, or advertise any component of the kit as an individual device.

This Executive Order does not constitute any opinion as to the effect the use of the Vortech Engineering Inc. Supercharger System may have on any warranty either expressed or implied by the vehicle manufacturer.

This Executive Order is granted based on emission test data generated on a 2002 Honda S2000 passenger car certified to the Low-Emission Vehicle (LEV) emission standards. Emission levels of the vehicle with the Supercharger System installed met the applicable emission standards during Cold Start CVS-75 Federal Test Procedure. Results are in grams per mile with deterioration factors added to CVS-75 results:

	NMHC	CO	NOx	HCHO
Standard	0.075	3.4	0.2	0.015
With Device	0.0645	1.18	0.12	0.0023

Vortech Engineering Inc. also demonstrated, that the Supercharger System did not affect the ability of the vehicle's OBDII system to monitor various emission related functions. Boost pressure was measured during a wide-open-throttle acceleration conducted by the independent emissions test laboratory. Results were measured to be no greater than 6.5 psi.

This Executive Order is granted based on submitted emission test data which showed that the Vortech Engineering, Inc.'s Supercharger System did not adversely affect tailpipe emissions during the Cold Start CVS-75 Federal Test Procedure. However, the ARB finds that reasonable grounds exist to believe that the use of the Vortech Engineering, Inc. Supercharger System may adversely affect emissions of motor vehicles when operating under conditions outside the parameters of the previously prescribed test procedures. Accordingly, the ARB reserves the right to conduct additional emission tests, in the future, as such tests are developed, that will more adequately measure emissions from all cycle phases. If such test results demonstrate that the Supercharger System adversely affects emissions during off-cycle conditions (defined as those conditions which are beyond the parameters of the Cold-Start CVS-75 Federal Test Procedure), this Executive Order shall be effectively rescinded as of the date the test results are validated. Further, if such test results or other evidence provides the ARB with reason to suspect that the Supercharger System will affect the durability of the emission control system, Vortech Engineering Inc. shall be required to submit durability data to show that the durability of the vehicle emissions control system is not, in fact, affected and/or that the add-on or modified part demonstrates adequate durability.

In addition to the foregoing, 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.

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 VORTECH ENGINEERING INC.'S SUPERCHARGER SYSTEM.

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 of 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.

Executive Order D-213-18, dated August 2002, is superseded and of no further force and effect.

Executed at El Monte, California, this 24TH day of April 2003.

Raphael Sarmiento
for Allen Lyons, Chief
Mobile Source Operations Division

Exhibit A

Honda/Acura

Part Number	Model years	Vehicle type/model	Engine size (liters)	Crank pulley dia. (in.)	S/C pulley dia. (in.)
4HS218-010	2000-2003	S2000 w/charge cooler	2	6	5
4HC218-010	1999-2000	Civic SI std.	1.6	5.35	3.7
4HC218-020	1999-2000	Civic SI w/charge cooler	1.6	5.35	3.33
4HC218-030	1994-2001	Integra GSR std.	1.8	5.42	3.7
4HC218-040	1994-2001	Integra GSR w/charge cooler	1.8	5.42	3.33
4HC218-060	1994-2001	Integra LS std.	1.8	5.42	3.7
4HC218-070	1994-2001	Integra LS w/charge cooler	1.8	5.42	3.33
4HC218-080	1998-2001	Integra Type R std.	1.8	5.42	3.7
4HC218-090	1998-2001	Integra Type R w/charge cooler	1.8	5.42	3.33