State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-213-14
Relating to Exemptions Under Section 27156
of the Vehicle Code

VORTECH ENGINEERING, INC.
6.5 PSI. S Trim V-1 GEARCHARGER 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 Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the installation of the add-on S Trim V-1 Gearcharger System, manufactured by Vortech Engineering, Inc., of 5351 Bonsai Ave., Moorpark, California 93021 with a max. boost of 6.5 psi., 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 the following General Motors truck applications, excluding any truck certified to a transitional low emission vehicle (TLEV) or low emission vehicle (LEV) emission standard.

The following 1998 model-year engine families certified to the TLEV or LEV emission standard are excluded from this Executive Order: WGMXA04.3188, WGMXT04.3185, WGMXT04.3187, WGMXA05.7185, and WGMXA05.7186.

Part No.	Model-Year	Engine Disp.	Pulley Dia. Crankshaft	Pulley Dia. Input
4GM218-050S	1996-98	5.7L	7.0"	3.6"
4GM218-058S	1996-98	5.7L	7.0"	3.6"
4GD218-050S	1996-98	4.3L	7.0"	3.6"
4GD218-058S	1996-98	4.3L	7.0"	3.6"

Installation of the Gearcharger System may require the installation of the following: Vortech Fuel Management System on the fuel return line, installation of a supplemental fuel pump, and modifications made to the intake air ducting. **Vehicles that are certified to an Enhanced Evaporative Emission Standard must maintain the stock air filter housing.**

Changes made to the design or operating conditions of the device, as exempt by the Air Resources Board, that adversely affect the performance of a vehicle's pollution control system shall invalidate this Executive Order.

Marketing of the S Trim V-1 Gearcharger System using any identification other than that shown in this Executive Order or marketing of the S Trim V-1 Gearcharger System for an application other than those listed in this Executive Order shall be prohibited unless prior approval is obtained from the ARB.

This Executive Order does not constitute any opinion as to the effect the S Trim V-1 Gearcharger System may have on any warranty either expressed or implied by the vehicle manufacturer.

This Executive Order is granted based on comparative intake manifold air pressure testing which was recorded during a Hot-Start 505 LA4 drive cycle in the baseline and modified configuration. However, the ARB finds that reasonable grounds exist to believe that use of the S Trim V-1 Gearcharger 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 S Trim V-1 Gearcharger System adversely affect 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 S Trim V-1 Gearcharger System will affect the durability of the emission control system, Vortech shall be required to submit durability data to show that the durability of the vehicle emission 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 ensure 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 CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF VORTECH ENGINEERING, INC.'S S TRIM V-1 GEARCHARGER 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 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 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 after hearing that grounds for revocation exist.

The Bureau of Automotive Repair will be notified by a copy of this order.

Executed at El Monte, California, this 4th day of March 1998.

R. B. Summerfield, Chief
Mobile Source Operations Division