State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-423-2
Relating to Exemptions Under Section 27156
of the Vehicle Code

ALLEN ENGINE DEVELOPMENT
6 PSI. SUPERCHARGER KIT

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-45-9;

IT IS ORDERED AND RESOLVED: That the installation of the 6 PSI. Supercharger Kit, manufactured and marketed by Allen Engine Development, 255 Lambert Street, Unit #1, Oxnard, California 93030 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 Ford 4.6 and 5.4L applications: 1994/95 Crown Victoria, Grand Marquis, Town Car, 1994 to 1997 Thunderbird/Cougar, 1996 to 1999 Mustang, and 1997 to 1999 trucks.

The 6 PSI. Supercharger Kit includes the following main components: Eaton supercharger with a 2.94" diameter pulley (4.6L) and a 2.4" pulley (5.4L), intake manifold plenum, intake manifold runners, intercooler, throttle body adapter, electric water pump, high flow fuel pump, and fuel pressure regulator. The EGR valve is relocated between the throttle body and the supercharger intake. Stock air cleaner is maintained.

This Executive Order shall not apply to any Allen Engine Development 6 PSI. Supercharger Kit advertised, offered for sale, or sold with or installed on, a motor vehicle prior to or concurrent with transfer to an ultimate purchaser.

This Executive Order is valid provided that the installation instructions for the supercharger 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 supercharger, as exempt 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 using any identification other than that shown in this Executive Order or marketing of the supercharger 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 supercharger 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 supercharger may have on any warranty either expressed or implied by the vehicle manufacturer.

This Executive Order is granted based on the following emissions test data submitted by the kit manufacturer:

	1998 Ford Expedition			
	NMOG	CO	NOX	HCHO
Standards	0.195	5.0	0.6	0.022
Device w/ dfs	0.113	3.2	0.1	0.001

Test results showed that the Supercharger Kit when installed on the vehicle did not cause tailpipe emissions to exceed the vehicle's applicable emission standard during a Cold Start CVS-75 Federal Test Procedure. This Executive Order is also based on On Board Diagnostic II (OBD II) testing conducted on the same test vehicle. Test data showed that the supercharger kit when installed on the vehicles did not affect the vehicle's ability to perform its OBD II monitoring.

However, the ARB finds that reasonable grounds exist to believe that use of the Allen Engine Development's Supercharger Kit 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 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 will affect the durability of the emission control systems, Allen Engine Development 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 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 ALLEN ENGINE DEVELOPMENT'S SUPERCHARGER KIT.

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 after hearing that grounds for revocation exist.

Executive Order D-423-1, dated March, 1998, is superseded and of no further force and effect.

Executed at El Monte, California, this 16th day of March 1999.

R. B. Summerfield, Chief
Mobile Source Operations Division