

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-126-7

Relating to Exemptions Under Section 27156
of the Vehicle Code

General Motors Service Parts Operation
Super Charger

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 Super Charger, part number 12593807, manufactured and marketed by General Motors Service Parts Operation 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 2002 through 2005 model year General Motors Cavalier and Sunfire vehicles equipped with a 2.2L engine.

The Super Charger includes the following main parts: A new intake manifold assembly that contains an Eaton M-62 supercharger assembly, a set of 4.35 grams/sec fuel injectors to replace the stock injectors (3.3 grams/sec), and a new fuel calibration that is downloaded onto the stock ECU. The Super Charger supercharger kit utilizes a 3.3 inch diameter pulley, and the stock crankshaft pulley is retained. The throttle body and the mass airflow sensor are relocated to the inlet housing of the supercharger. The stock manifold absolute pressure (MAP) sensor and intake air temperature (IAT) sensor are replaced with a new combined MAP and IAT sensor. Maximum boost produced by the supercharger is 10 PSI.

This Executive Order is valid provided that the installation instructions for the Super Charger 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.

This Executive Order shall not apply to any General Motors Service Parts Operation's Super Charger 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 Super Charger using any identification other than that shown in this Executive Order or marketing of the Super Charger 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 Super Charger 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 Super Charger may have on any warranty either expressed or implied by the vehicle manufacturer.

This Executive Order is granted based on submitted emissions test data generated on a 2003 model year General Motors 2.2L Sunfire, certified to the Low Emission Vehicle (LEV) emission standards with the Super Charger installed. Testing consisted of a Cold-Start CVS-75 Federal Test Procedure (FTP) and the Supplemental Federal Test Procedure (SFTP US06 and SCO3) test cycles. Results are in grams per mile with deterioration factors added to CVS-75 FTP results. Emission levels of the modified vehicle met the applicable emission standards.

	CVS-75 FTP				US06/SCO3	
	NMOG	CO	NOx	HCHO	NMHC+NOx	CO
Standards	0.075	3.4	0.2	0.015	0.14/0.20	8.0/2.7
Device w/ dfs	0.049	0.8	0.03	0.001	0.05/0.03	2.9/0.6

This Executive Order is also based on an On-Board Diagnostic II (OBD II) test conducted on the same test vehicle. Test data showed that the Super Charger when installed on the vehicle did not affect the ability to perform OBD II monitoring.

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 GENERAL MOTORS SERVICE PARTS OPERATION'S SUPER CHARGER.

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 28th day of April 2005.



Allen Lyons, Chief
Mobile Source Operations Division