

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-652-1

Relating to Exemptions Under Section 27156
of the California Vehicle Code

STaSIS Engineering
Mahle Twin Flow Power 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-02-003;

IT IS ORDERED AND RESOLVED: That the installation of the Mahle Twin Flow Power Kit, manufactured and marketed by the STaSIS Engineering, 29647 Arnold Drive, Infineon Raceway, Sonoma, California 95476, has been found not to reduce the effectiveness of the applicable vehicle pollution control systems and, therefore, is exempt from the prohibitions of Section 27156 of the Vehicle Code for 2005 through 2009 model year Audi and Volkswagen vehicles originally equipped with a 2.0L turbo charged engine.

The Mahle Twin Flow Power Kit includes the following components: Upgraded Borg Warner turbo, heavy duty diverter valve, replacement high flow injectors, and an ECU upgrade. ECU upgrade is conducted using a laptop computer. The new program is uploaded through the OBD II port and access to STaSIS Engineering's web site. There are no user adjustments. Boost pressure is increased from 13.4 to 19.4 pounds per square inch.

This Executive Order is valid provided the installation instructions for the Mahle Twin Flow Power Kit will not recommend tuning the vehicle to specifications different from those submitted by the device manufacturer.

Changes made to the design or operating conditions of the Mahle Twin Flow Power Kit, 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 Mahle Twin Flow Power Kit 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 Mahle Twin Flow Power Kit using any identification other than that shown in this Executive Order or marketing of the Mahle Twin Flow Power Kit for an application other than those listed in this Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board.

This Executive Order does not constitute any opinion as to the effect the use of the Mahle Twin Flow Power Kit 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 2.0L 2006 model year Audi A4 certified to the Low Emission Vehicle II Ultra Low Emission Vehicle (LEV II ULEV) emission standards and modified with the Mahle Twin Flow Power Kit. Testing consisted of a Cold-Start Federal Test Procedure (FTP) and the Supplemental Federal Test Procedure (SFTP US06) test cycles. Results are in grams per mile with deterioration factors applied to the FTP results.

Audi A4	FTP				SFTP US06	
	NMOG	CO	NOx	HCHO	NMHC+NOx	CO
Standards 50k	0.040	1.7	0.05	0.008	0.14	8.0
Device Test 1	0.013	0.9	0.03	0.000	0.05	2.2
Device Test 2	0.013	0.8	0.03	0.000		


Emission levels of the modified vehicles met the applicable emission standards. Examination of the OBD II system showed the Mahle Twin Flow Power Kit did not affect OBD II system operation.

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 THE MAHLE TWIN FLOW POWER 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 is made after the hearing that grounds for revocation exist.

Executed at El Monte, California, this 10th day of October 2008.


Annette Hebert, Chief
Mobile Source Operations Division