

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-231-22

Relating to Exemptions Under Section 27156
of the Vehicle Code

WHIPPLE INDUSTRIES, INC.
WHIPPLECHARGER

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 WhippleCharger, manufactured and marketed by Whipple Industries, Inc., 3292 N. Weber Avenue, Fresno, California, 93722 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 General Motors truck applications listed in Exhibit A, excluding the following engine test groups which are certified to a Low Emission Vehicle II emission standard: 2004 model year, 4GMXT04.2185, 4GMXA06.0189; 2005 model year, 5GMXT04.2185, and 5GMXA06.0189.

The WhippleCharger is a supercharger consisting of the following main components: Twin Screw Whipple supercharger, two auxiliary fuel injectors with a stand alone computer, air bypass valve, a low temperature thermostat to replace stock thermostat, and a new closed element air cleaner housing. An intercooler is included on selected kits and denoted as IC in the part number. The maximum boost is 10 psi.

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. Whipple Industries, Inc. recommends that only premium fuel be used.

Changes made to the design or operating conditions of the WhippleCharger, 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 Whipple Industries, Inc.'s WhippleCharger advertised, offered for sale, sold with, or installed on a motor vehicle prior to or concurrent with transfer to an ultimate purchaser.

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 submitted emissions test data generated on a 2004 model year General Motors C1500 certified to the Super Ultra Low Emission Vehicle (SULEV) emission standards. Testing consisted of a Cold-Start CVS-75 Federal Test Procedure (FTP) and the Supplemental Federal Test Procedure (SFTP US06/SCO3) test cycle. 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.

	NMOG	CO	NOx	HCHO	US06/SCO3 NMHC+NOx	CO
Standards	0.125	3.4	0.14	0.015	0.4/0.31	10.5/3.5
Device w/ dfs	0.067	1.2	0.04	0.000	0.05/0.026	2.0/0.3

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

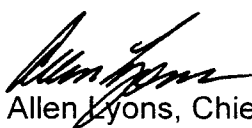
The ARB reserves the right in the future to review this Executive Order and the exemption provided herein to assure that the exempted add-on or modified part continues to meet the standards and procedures of Title 13, California Code of Regulations, Section 2222, et seq.

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 WHIPPLE INDUSTRIES, INC.'S WHIPPLECHARGER.

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 has been made after the hearing that grounds for revocation exist.

Executed at El Monte, California, this 27TH day of October 2004



Allen Lyons, Chief
Mobile Source Operations Division

WHIPPLE SUPERCHARGERS TRUCK KIT MATRIX

YEARS	MAKE	WHIPPLE KIT #	ENGINE (LITER)	MAX BOOST PSI	COMPRESSOR SIZE	CRANK PULLEY SIZE	SC PULLEY
1996-2000	General Motors	WIK-L31-5.7L	5.7	8	1.6L	7.500	2.875
1996-2000	General Motors	WIK-L29-7.4LA	7.4	8	2.1L	7.500	2.750
1996-2000	General Motors	WIK-L29-7.4LB	7.4	8	2.3L	7.500	3.125
2001-2004	General Motors	WIK-LL8-4.2LA	4.2	10	1.6L	7.000	2.750
2001-2004	General Motors	WIK-LL8-4.2LB	4.2	10	1.6L	7.000	3.000
2001-2004	General Motors	WIK-LL8-4.2LC	4.2	10	1.6L	7.000	3.125
2001-2004	General Motors	WIK-LL8-4.2LD	4.2	10	1.6L	7.000	3.250
2001-2004	General Motors	WIK-LL8-4.2LE	4.2	10	1.6L	7.000	3.375
2001-2004	General Motors	WIK-LL8-4.2LA-IC	4.2	10	1.6L	7.000	2.625
2001-2004	General Motors	WIK-LL8-4.2LB-IC	4.2	10	1.6L	7.000	2.875
2001-2004	General Motors	WIK-LL8-4.2LC-IC	4.2	10	1.6L	7.000	3.000
2001-2004	General Motors	WIK-LL8-4.2LD-IC	4.2	10	1.6L	7.000	3.125
2001-2004	General Motors	WIK-LL8-4.2LE-IC	4.2	10	1.6L	7.000	3.250
1999-2005	General Motors	WIK-LR4-4.8LA	4.8	10	2.1L	7.500	3.995
1999-2005	General Motors	WIK-LR4-4.8LB	4.8	10	2.3L	6.250	3.647
1999-2005	General Motors	WIK-LR4-4.8LC	4.8	10	2.3L	7.500	4.376
1999-2005	General Motors	WIK-LR4-4.8LTA-IC	4.8	10	2.3L	7.500	4.376
1999-2005	General Motors	WIK-LR4-4.8LTB-IC	4.8	10	2.3L	7.500	4.500
1999-2005	General Motors	WIK-LR4-4.8LTC-IC	4.8	10	2.3L	7.500	4.625
1999-2005	General Motors	WIK-LR4-4.8LTD-IC	4.8	10	2.3L	7.500	4.750
1999-2005	General Motors	WIK-LM4-5.3LA	5.3	10	2.1L	7.500	3.698
1999-2005	General Motors	WIK-LM4-5.3LB	5.3	10	2.3L	6.250	3.375
1999-2005	General Motors	WIK-LM4-5.3LC	5.3	10	2.3L	7.500	4.050
1999-2005	General Motors	WIK-LM4-5.3LD	5.3	10	2.3L	7.500	4.185
1999-2005	General Motors	WIK-LM4-5.3LE	5.3	10	2.3L	7.500	4.250
1999-2005	General Motors	WIK-LM4-5.3LF	5.3	10	2.3L	7.500	4.375
1999-2005	General Motors	WIK-LM4-5.3LG	5.3	10	2.3L	7.500	4.500
1999-2005	General Motors	WIK-LM4-5.3LH	5.3	10	2.3L	7.500	4.625
1999-2005	General Motors	WIK-LM4-5.3LTA-IC	5.3	10	2.3L	7.500	3.750
1999-2005	General Motors	WIK-LM4-5.3LTB-IC	5.3	10	2.3L	7.500	3.875
1999-2005	General Motors	WIK-LM4-5.3LTC-IC	5.3	10	2.3L	7.500	4.000
1999-2005	General Motors	WIK-LM4-5.3LTD-IC	5.3	10	2.3L	7.500	4.125
1999-2005	General Motors	WIK-LM4-5.3LTE-IC	5.3	10	2.3L	7.500	4.250
1999-2005	General Motors	WIK-LM4-5.3LTF-IC	5.3	10	2.3L	7.500	4.375
1999-2005	General Motors	WIK-LM4-5.3LTG-IC	5.3	10	2.3L	7.500	4.500
1999-2005	General Motors	WIK-LM7-5.3LA	5.3	10	2.1L	7.500	3.698
1999-2005	General Motors	WIK-LM7-5.3LB	5.3	10	2.3L	6.250	3.375
1999-2005	General Motors	WIK-LM7-5.3LC	5.3	10	2.3L	7.500	4.050
1999-2005	General Motors	WIK-LM7-5.3LD	5.3	10	2.3L	7.500	4.185
1999-2005	General Motors	WIK-LM7-5.3LE	5.3	10	2.3L	7.500	4.250
1999-2005	General Motors	WIK-LM7-5.3LF	5.3	10	2.3L	7.500	4.375
1999-2005	General Motors	WIK-LM7-5.3LG	5.3	10	2.3L	7.500	4.500
1999-2005	General Motors	WIK-LM7-5.3LH	5.3	10	2.3L	7.500	4.625
1999-2005	General Motors	WIK-LM7-5.3LTA-IC	5.3	10	2.3L	7.500	3.750
1999-2005	General Motors	WIK-LM7-5.3LTB-IC	5.3	10	2.3L	7.500	3.875
1999-2005	General Motors	WIK-LM7-5.3LTC-IC	5.3	10	2.3L	7.500	4.000
1999-2005	General Motors	WIK-LM7-5.3LTD-IC	5.3	10	2.3L	7.500	4.125
1999-2005	General Motors	WIK-LM7-5.3LTE-IC	5.3	10	2.3L	7.500	4.250
1999-2005	General Motors	WIK-LM7-5.3LTF-IC	5.3	10	2.3L	7.500	4.375

Exhibit A

1999-2005	General Motors	WIK-LM7-5.3LTG-IC	5.3	10	2.3L	7.500	4.500
1999-2005	General Motors	WIK-L59-5.3LA	5.3	10	2.1L	7.500	3.698
1999-2005	General Motors	WIK-L59-5.3LB	5.3	10	2.3L	6.250	3.375
1999-2005	General Motors	WIK-L59-5.3LC	5.3	10	2.3L	7.500	3.750
1999-2005	General Motors	WIK-L59-5.3LD	5.3	10	2.3L	7.500	4.000
1999-2005	General Motors	WIK-L59-5.3LE	5.3	10	2.3L	7.500	4.250
1999-2005	General Motors	WIK-L59-5.3LF	5.3	10	2.3L	7.500	4.375
1999-2005	General Motors	WIK-L59-5.3LG	5.3	10	2.3L	7.500	4.500
1999-2005	General Motors	WIK-L59-5.3LH	5.3	10	2.3L	7.500	4.625
1999-2005	General Motors	WIK-L59-5.3LTA-IC	5.3	10	2.3L	7.500	3.750
1999-2005	General Motors	WIK-L59-5.3LTB-IC	5.3	10	2.3L	7.500	3.875
1999-2005	General Motors	WIK-L59-5.3LTC-IC	5.3	10	2.3L	7.500	4.000
1999-2005	General Motors	WIK-L59-5.3LTD-IC	5.3	10	2.3L	7.500	4.125
1999-2005	General Motors	WIK-L59-5.3LTE-IC	5.3	10	2.3L	7.500	4.250
1999-2005	General Motors	WIK-L59-5.3LTF-IC	5.3	10	2.3L	7.500	4.375
1999-2005	General Motors	WIK-L59-5.3LTG-IC	5.3	10	2.3L	7.500	4.500
2005	General Motors	WIK-L33-5.3LA	5.3	10	2.1L	7.500	3.698
2005	General Motors	WIK-L33-5.3LB	5.3	10	2.3L	6.250	3.375
2005	General Motors	WIK-L33-5.3LC	5.3	10	2.3L	7.500	3.500
2005	General Motors	WIK-L33-5.3LD	5.3	10	2.3L	7.500	3.750
2005	General Motors	WIK-L33-5.3LE	5.3	10	2.3L	7.500	4.000
2005	General Motors	WIK-L33-5.3LF	5.3	10	2.3L	7.500	4.125
2005	General Motors	WIK-L33-5.3LG	5.3	10	2.3L	7.500	4.250
2005	General Motors	WIK-L33-5.3LH	5.3	10	2.3L	7.500	4.375
2005	General Motors	WIK-L33-5.3LI	5.3	10	2.3L	7.500	4.500
2005	General Motors	WIK-L33-5.3LTA-IC	5.3	10	2.3L	7.500	3.750
2005	General Motors	WIK-L33-5.3LTB-IC	5.3	10	2.3L	7.500	3.875
2005	General Motors	WIK-L33-5.3LTC-IC	5.3	10	2.3L	7.500	4.000
2005	General Motors	WIK-L33-5.3LTD-IC	5.3	10	2.3L	7.500	4.125
2005	General Motors	WIK-L33-5.3LTE-IC	5.3	10	2.3L	7.500	4.250
2005	General Motors	WIK-L33-5.3LTF-IC	5.3	10	2.3L	7.500	4.375
2005	General Motors	WIK-L33-5.3LTG-IC	5.3	10	2.3L	7.500	4.500
2005	General Motors	WIK-LH6-5.3LA	5.3	10	2.1L	7.500	3.698
2005	General Motors	WIK-LH6-5.3LB	5.3	10	2.3L	6.250	3.375
2005	General Motors	WIK-LH6-5.3LC	5.3	10	2.3L	7.500	4.050
2005	General Motors	WIK-LH6-5.3LD	5.3	10	2.3L	7.500	4.185
2005	General Motors	WIK-LH6-5.3LE	5.3	10	2.3L	7.500	4.250
2005	General Motors	WIK-LH6-5.3LF	5.3	10	2.3L	7.500	4.375
2005	General Motors	WIK-LH6-5.3LG	5.3	10	2.3L	7.500	4.500
2005	General Motors	WIK-LH6-5.3LH	5.3	10	2.3L	7.500	4.625
2005	General Motors	WIK-LH6-5.3LTA-IC	5.3	10	2.3L	7.500	3.750
2005	General Motors	WIK-LH6-5.3LTB-IC	5.3	10	2.3L	7.500	3.875
2005	General Motors	WIK-LH6-5.3LTC-IC	5.3	10	2.3L	7.500	4.000
2005	General Motors	WIK-LH6-5.3LTD-IC	5.3	10	2.3L	7.500	4.125
2005	General Motors	WIK-LH6-5.3LTE-IC	5.3	10	2.3L	7.500	4.250
2005	General Motors	WIK-LH6-5.3LTF-IC	5.3	10	2.3L	7.500	4.375
2005	General Motors	WIK-LH6-5.3LTG-IC	5.3	10	2.3L	7.500	4.500
2001-2005	General Motors	WIK-LS1-5.7LTA-IC	5.7	10	2.3L	7.500	2.750
2001-2005	General Motors	WIK-LS1-5.7LTB-IC	5.7	10	2.3L	7.500	3.000
2001-2005	General Motors	WIK-LS1-5.7LTC-IC	5.7	10	2.3L	7.500	3.250
2001-2005	General Motors	WIK-LS1-5.7LTD-IC	5.7	10	2.3L	7.500	3.500
2001-2005	General Motors	WIK-LS1-5.7LTE-IC	5.7	10	2.3L	7.500	3.625
2001-2005	General Motors	WIK-LS1-5.7LTF-IC	5.7	10	2.3L	7.500	3.750
2001-2005	General Motors	WIK-LS1-5.7LTG-IC	5.7	10	2.3L	7.500	3.875

Exhibit A

2001-2005	General Motors	WIK-LS1-5.7LTH-IC	5.7	10	2.3L	7.500	4.000
1999-2005	General Motors	WIK-LQ4-6.0LA	6.0	10	2.3L	7.500	2.976
1999-2005	General Motors	WIK-LQ4-6.0LB	6.0	10	2.1L	6.250	2.716
1999-2005	General Motors	WIK-LQ4-6.0LC	6.0	10	2.3L	7.500	3.259
1999-2005	General Motors	WIK-LQ4-6.0LD	6.0	10	2.3L	7.500	3.500
1999-2005	General Motors	WIK-LQ4-6.0LR	6.0	10	2.3L	7.500	3.625
1999-2005	General Motors	WIK-LQ4-6.0LF	6.0	10	2.3L	7.500	3.875
1999-2005	General Motors	WIK-LQ4-6.0LG	6.0	10	2.3L	7.500	4.000
1999-2005	General Motors	WIK-LQ4-6.0LG	6.0	10	2.3L	7.500	4.125
1999-2005	General Motors	WIK-LQ4-6.0LTA-IC	6.0	10	2.3L	7.500	3.250
1999-2005	General Motors	WIK-LQ4-6.0LTB-IC	6.0	10	2.3L	7.500	3.500
1999-2005	General Motors	WIK-LQ4-6.0LTC-IC	6.0	10	2.3L	7.500	3.750
1999-2005	General Motors	WIK-LQ4-6.0LTD-IC	6.0	10	2.3L	7.500	4.000
1999-2005	General Motors	WIK-LQ4-6.0LTE-IC	6.0	10	2.3L	7.500	4.125
1999-2005	General Motors	WIK-LQ4-6.0LTF-IC	6.0	10	2.3L	7.500	4.250
1999-2005	General Motors	WIK-LQ4-6.0LTG-IC	6.0	10	2.3L	7.500	4.500
1999-2005	General Motors	WIK-LQ9-6.0LA	6.0	10	2.3L	7.500	2.976
1999-2005	General Motors	WIK-LQ9-6.0LB	6.0	10	2.1L	6.250	2.716
1999-2005	General Motors	WIK-LQ9-6.0LC	6.0	10	2.3L	7.500	3.259
1999-2005	General Motors	WIK-LQ9-6.0LD	6.0	10	2.3L	7.500	3.500
1999-2005	General Motors	WIK-LQ9-6.0LR	6.0	10	2.3L	7.500	3.750
1999-2005	General Motors	WIK-LQ9-6.0LF	6.0	10	2.3L	7.500	4.000
1999-2005	General Motors	WIK-LQ9-6.0LG	6.0	10	2.3L	7.500	4.250
1999-2005	General Motors	WIK-LQ9-6.0LTA-IC	6.0	10	2.3L	7.500	3.250
1999-2005	General Motors	WIK-LQ9-6.0LTB-IC	6.0	10	2.3L	7.500	3.500
1999-2005	General Motors	WIK-LQ9-6.0LTC-IC	6.0	10	2.3L	7.500	3.750
1999-2005	General Motors	WIK-LQ9-6.0LTD-IC	6.0	10	2.3L	7.500	4.000
1999-2005	General Motors	WIK-LQ9-6.0LTE-IC	6.0	10	2.3L	7.500	4.125
1999-2005	General Motors	WIK-LQ9-6.0LTF-IC	6.0	10	2.3L	7.500	4.250
1999-2005	General Motors	WIK-LQ9-6.0LTG-IC	6.0	10	2.3L	7.500	4.500
2005	General Motors	WIK-LS2-6.0LTA-IC	6.0	10	2.3L	7.500	3.000
2005	General Motors	WIK-LS2-6.0LTB-IC	6.0	10	2.3L	7.500	3.250
2005	General Motors	WIK-LS2-6.0LTC-IC	6.0	10	2.3L	7.500	3.500
2005	General Motors	WIK-LS2-6.0LTD-IC	6.0	10	2.3L	7.500	3.750
2005	General Motors	WIK-LS2-6.0LTE-IC	6.0	10	2.3L	7.500	4.000
2005	General Motors	WIK-LS2-6.0LTF-IC	6.0	10	2.3L	7.500	4.125
2005	General Motors	WIK-LS2-6.0LTG-IC	6.0	10	2.3L	7.500	4.250
2001-2005	General Motors	WIK-L18-8.1LA	8.1	8	2.3L	6.250	2.291
2001-2005	General Motors	WIK-L18-8.1LB	8.1	8	2.3L	7.500	2.750
2001-2005	General Motors	WIK-L18-8.1LTA	8.1	8	2.3L	7.500	2.875
2001-2005	General Motors	WIK-L18-8.1LTB	8.1	8	2.3L	7.500	2.750
2001-2005	General Motors	WIK-L18-8.1LA-IC	8.1	8	2.3L	6.250	2.083
2001-2005	General Motors	WIK-L18-8.1LB-IC	8.1	8	2.3L	7.500	2.500
2001-2005	General Motors	WIK-L18-8.1LTA-IC	8.1	8	2.3L	7.500	2.750
2001-2005	General Motors	WIK-L18-8.1LTB-IC	8.1	8	2.3L	7.500	2.875

IC = INTERCOOLED