

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-231-25

Relating to Exemptions Under Section 27156  
of the California Vehicle Code

Whipple Industries, Inc.  
Whipple 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 Whipple Charger, manufactured and marketed by Whipple Industries, Inc., 3292 N. Weber, Fresno, California 93722, 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 the following Ford Motor Company vehicles as listed in Exhibit A which is attached hereto and incorporated herein.

The Whipple Charger for Ford vehicles consists of the following main components: Twin Screw Whipple supercharger, intake manifold, bypass valve, 160 degree thermostat to replace the stock thermostat, new air cleaner housing with a high-flow element, fuel pump, reflashed ECM, mass air flow sensor, and a set of high flow injectors. Some kits may include an intercooler. The breather hose may be replaced with an SAE30R9 rated hose.

This Executive Order is valid provided that the installation instructions for the Whipple Charger 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 Whipple Charger, 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 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 Whipple Charger using any identification other than that shown in this Executive Order or marketing of the Whipple 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.

This Executive Order does not constitute any opinion as to the effect the use of the Whipple Charger may have on any warranty either expressed or implied by the vehicle manufacturer.

This Executive Order is granted based on previously submitted emission test data (D-231-23 and D-231-24) conducted on a 2005 model year Ford F-150 with a 5.4 liter engine and a 2005 model year 4.6L Ford Mustang, both certified to the Low Emission Vehicle II Low Emission Vehicle (LEV II LEV) emission standards. The emission test results on both vehicles, in the modified configuration, were below the applicable certification standards. Examination of the OBD II system showed no affect on the vehicle's OBD II system operation.

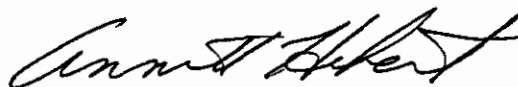
The Air Resources Board reserves the right in the future to review this Executive Order and the exemption provided herein to assure that the exempted add-on or modified part continues to meet the standards and procedures of Title 13, California Code of Regulations, Section 2222, et seq.

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 THE WHIPPLE 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 27 day of October 2006



Annette Hebert, Chief  
Mobile Source Operations Division

# Exhibit A

| YEARS     | MAKE                           | WHIPPLE KIT #  | ENGINE (LITER) | MAX BOOST PSI | COMPRESSOR SIZE | CRANK PULLEY SIZE | SC PULLEY |
|-----------|--------------------------------|----------------|----------------|---------------|-----------------|-------------------|-----------|
| 1996-2004 | Ford Mustang                   | WIK-4.6-2V     | 4.6L           | 10            | 2.3L            | 6.555             | 4.000     |
| 1996-2004 | Ford Mustang                   | WIK-4.6-2V     | 4.6L           | 10            | 2.3L            | 6.555             | 4.250     |
| 1996-2004 | Ford Mustang                   | WIK-4.6-2V-1C  | 4.6L           | 10            | 2.3L            | 6.555             | 3.250     |
| 1996-2004 | Ford Mustang                   | WIK-4.6-2V-1C  | 4.6L           | 10            | 2.3L            | 6.555             | 3.500     |
| 1996-2004 | Ford Mustang                   | WIK-4.6-2V-1C  | 4.6L           | 10            | 2.3L            | 6.555             | 3.625     |
| 1996-2004 | Ford Mustang                   | WIK-4.6-2V-1C  | 4.6L           | 10            | 2.3L            | 6.555             | 3.750     |
| 1996-2004 | Ford Mustang                   | WIK-4.6-2V-1C  | 4.6L           | 10            | 2.3L            | 6.555             | 3.875     |
| 1996-2004 | Ford F150/F250/F350/Expedition | WIK-5.4-2V-1C  | 5.4L           | 10            | 2.3L            | 6.555             | 3.375     |
| 1996-2004 | Ford F150/F250/F350/Expedition | WIK-5.4-2V-1C  | 5.4L           | 10            | 2.3L            | 6.555             | 3.500     |
| 1996-2004 | Ford F150/F250/F350/Expedition | WIK-5.4-2V-1C  | 5.4L           | 10            | 2.3L            | 6.555             | 3.625     |
| 1996-2004 | Ford F150/F250/F350/Expedition | WIK-5.4-2V-1C  | 5.4L           | 10            | 2.3L            | 6.555             | 3.750     |
| 1996-2004 | Ford F150/F250/F350/Expedition | WIK-5.4-2V     | 5.4L           | 10            | 2.3L            | 6.555             | 3.875     |
| 1996-2004 | Ford F150/F250/F350/Expedition | WIK-5.4-2V     | 5.4L           | 10            | 2.3L            | 6.555             | 4.000     |
| 1996-2004 | Ford F150/F250/F350/Expedition | WIK-5.4-2V     | 5.4L           | 10            | 2.3L            | 6.555             | 4.125     |
| 1998-2001 | Ford Mustang Cobra             | WIK-4.6-4V-1C  | 4.6L           | 10            | 2.3L            | 6.555             | 3.000     |
| 1998-2001 | Ford Mustang Cobra             | WIK-4.6-4V-1C  | 4.6L           | 10            | 2.3L            | 6.555             | 3.125     |
| 1998-2001 | Ford Mustang Cobra             | WIK-4.6-4V-1C  | 4.6L           | 10            | 2.3L            | 6.555             | 3.250     |
| 1998-2001 | Ford Mustang Cobra             | WIK-4.6-4V-1C  | 4.6L           | 10            | 2.3L            | 6.555             | 3.385     |
| 1998-2006 | Ford F250/F350                 | WIK-6.8L       | 6.8L           | 10            | 2.3L            | 7.500             | 3.485     |
| 1998-2006 | Ford F250/F350                 | WIK-6.8L-1C    | 6.8L           | 10            | 2.3L            | 7.500             | 3.250     |
| 1999-2004 | Ford Lightning/Harley Truck    | WIK-5.4L-2V23  | 5.4L           | 15            | 2.3L            | 7.500             | 2.750     |
| 1999-2004 | Ford Lightning/Harley Truck    | WIK-5.4L-2V23  | 5.4L           | 15            | 2.3L            | 7.500             | 3.000     |
| 1999-2004 | Ford Lightning/Harley Truck    | WIK-5.4L-2V23  | 5.4L           | 15            | 2.3L            | 7.500             | 3.250     |
| 1999-2004 | Ford Lightning/Harley Truck    | WIK-5.4L-2V33  | 5.4L           | 15            | 3.3L            | 7.500             | 4.500     |
| 1999-2004 | Ford Lightning/Harley Truck    | WIK-5.4L-2V33  | 5.4L           | 15            | 3.3L            | 7.500             | 4.750     |
| 1999-2004 | Ford Lightning/Harley Truck    | WIK-5.4L-2V33  | 5.4L           | 15            | 3.3L            | 7.500             | 5.000     |
| 2002-2004 | Ford Cobra                     | WIK-4.6L-4V23  | 4.6L           | 15            | 2.3L            | 7.500             | 3.250     |
| 2002-2004 | Ford Cobra                     | WIK-4.6L-4V23  | 4.6L           | 15            | 2.3L            | 7.500             | 3.500     |
| 2002-2004 | Ford Cobra                     | WIK-4.6L-4V33  | 4.6L           | 15            | 3.3L            | 7.500             | 4.250     |
| 2002-2004 | Ford Cobra                     | WIK-4.6L-4V33  | 4.6L           | 15            | 3.3L            | 7.500             | 4.500     |
| 2002-2004 | Ford Cobra                     | WIK-4.6L-4V33  | 4.6L           | 15            | 3.3L            | 7.500             | 4.750     |
| 2002-2004 | Ford Cobra                     | WIK-4.6L-4V33  | 4.6L           | 15            | 3.3L            | 7.500             | 5.000     |
| 2002-2006 | Ford Ranger/Mazda B-Series     | WIK-3.0L       | 3.0L           | 11            | 1.2L            | 5.830             | 2.750     |
| 2002-2006 | Ford Ranger/Mazda B-Series     | WIK-3.0L       | 3.0L           | 11            | 1.2L            | 5.830             | 2.875     |
| 2002-2006 | Ford Ranger/Mazda B-Series     | WIK-3.0L       | 3.0L           | 11            | 1.2L            | 5.830             | 3.000     |
| 2002-2006 | Ford Ranger/Mazda B-Series     | WIK-3.0L       | 3.0L           | 11            | 1.2L            | 5.830             | 3.125     |
| 2004-2007 | Ford F150/F250/F350/Expedition | WIK-5.4L-3V-1C | 5.4L           | 10            | 2.3L            | 6.500             | 3.250     |
| 2004-2007 | Ford F150/F250/F350/Expedition | WIK-5.4L-3V-1C | 5.4L           | 10            | 2.3L            | 6.500             | 3.385     |
| 2004-2007 | Ford F150/F250/F350/Expedition | WIK-5.4L-3V-1C | 5.4L           | 10            | 2.3L            | 6.500             | 3.500     |
| 2004-2007 | Ford F150/F250/F350/Expedition | WIK-5.4L-3V    | 5.4L           | 10            | 2.3L            | 6.500             | 3.385     |
| 2004-2007 | Ford F150/F250/F350/Expedition | WIK-5.4L-3V    | 5.4L           | 10            | 2.3L            | 6.500             | 3.500     |
| 2005-2007 | Ford F250/F350                 | WIK-6.8L-3V-1C | 6.8L           | 10            | 2.3L            | 6.500             | 3.000     |
| 2005-2007 | Ford F250/F350                 | WIK-6.8L-3V-1C | 6.8L           | 10            | 2.3L            | 6.500             | 3.125     |
| 2005-2007 | Ford F250/F350                 | WIK-6.8L-3V-1C | 6.8L           | 10            | 2.3L            | 6.500             | 3.250     |
| 2005-2007 | Ford F250/F350                 | WIK-6.8L-3V    | 6.8L           | 10            | 2.3L            | 6.500             | 3.125     |
| 2005-2007 | Ford F250/F350                 | WIK-6.8L-3V    | 6.8L           | 10            | 2.3L            | 6.500             | 3.250     |
| 2005-2007 | Ford F250/F350                 | WIK-6.8L-3V    | 6.8L           | 10            | 2.3L            | 6.500             | 3.385     |
| 2005-2007 | Ford Mustang                   | WIK-5.4L-3V    | 4.6L           | 12            | 2.3L            | 6.500             | 4.250     |
| 2005-2007 | Ford Mustang                   | WIK-5.4L-3V    | 4.6L           | 12            | 2.3L            | 6.500             | 4.125     |
| 2005-2007 | Ford Mustang                   | WIK-5.4L-3V    | 4.6L           | 12            | 2.3L            | 6.500             | 4.000     |
| 2005-2007 | Ford Mustang                   | WIK-5.4L-3V    | 4.6L           | 12            | 2.3L            | 6.500             | 3.875     |
| 2005-2007 | Ford Mustang                   | WIK-5.4L-3V    | 4.6L           | 12            | 2.3L            | 6.500             | 3.750     |
| 2005-2007 | Ford Mustang                   | WIK-5.4L-3V    | 4.6L           | 12            | 2.3L            | 6.500             | 3.625     |
| 2005-2007 | Ford Mustang                   | WIK-5.4L-3V    | 4.6L           | 12            | 2.3L            | 6.500             | 3.500     |
| 2005-2007 | Ford Mustang                   | WIK-5.4L-3V    | 4.6L           | 12            | 2.3L            | 6.500             | 3.375     |
| 2005-2007 | Ford Mustang                   | WIK-5.4L-3V    | 4.6L           | 12            | 2.3L            | 6.500             | 3.250     |
| 2005-2007 | Ford Mustang                   | WIK-4.6L-3V-1C | 4.6L           | 12            | 2.3L            | 6.500             | 2.750     |
| 2005-2007 | Ford Mustang                   | WIK-4.6L-3V-1C | 4.6L           | 12            | 2.3L            | 6.500             | 2.875     |
| 2005-2007 | Ford Mustang                   | WIK-4.6L-3V-1C | 4.6L           | 12            | 2.3L            | 6.500             | 3.000     |
| 2005-2007 | Ford Mustang                   | WIK-4.6L-3V-1C | 4.6L           | 12            | 2.3L            | 6.500             | 3.125     |
| 2005-2007 | Ford Mustang                   | WIK-4.6L-3V-1C | 4.6L           | 12            | 2.3L            | 6.500             | 3.250     |
| 2005-2007 | Ford Mustang                   | WIK-4.6L-3V-1C | 4.6L           | 12            | 2.3L            | 6.500             | 3.385     |
| 2005-2007 | Ford Mustang                   | WIK-4.6L-3V-1C | 4.6L           | 12            | 2.3L            | 6.500             | 3.500     |
| 2005-2007 | Ford Mustang                   | WIK-4.6L-3V-1C | 4.6L           | 12            | 2.3L            | 6.500             | 3.625     |
| 2005-2007 | Ford Mustang                   | WIK-4.6L-3V-1C | 4.6L           | 12            | 2.3L            | 6.500             | 3.750     |
| 2005-2007 | Ford Mustang                   | WIK-4.6L-3V-1C | 4.6L           | 12            | 2.3L            | 6.500             | 3.875     |
| 2005-2007 | Ford Mustang                   | WIK-4.6L-3V-1C | 4.6L           | 12            | 2.3L            | 6.500             | 4.000     |

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