State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-540-2

Relating to Exemptions Under Section 27156
of the Vehicle Code

Summit Industries, Inc.
Thorley Headers

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 Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the installation of the Thorley Headers, manufactured by Summit Industries, Inc. of 1200 Railroad Street, Corona, California 92882, 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 vehicle applications as listed in Exhibit A which is attached hereto and incorporated herein.

The Summit Industries, Inc.'s Thorley Headers for General Motors and Ford vehicles are a shorty style header, excluding the Ford 6.8L engine. The Toyota and Ford 6.8L Thorley Headers are a long tube style header. Both the shorty and the long tube Thorley Headers are manufactured out of 14 gage mild steel with the oxygen sensor retained in the stock location, at the collector.

This Executive Order is valid provided that installation instructions for this device will not recommend tuning the vehicles to specifications different from those of the vehicle manufacturer.

This Executive Order shall not apply to any Summit Industries, Inc.'s Thorley Header advertised, offered for sale, sold with, or installed on a new motor vehicle prior to or concurrent with transfer to an ultimate purchaser.

Changes made to the design or operating conditions of the device, as exempt by the Air Resources Board, which adversely affect the performance of a vehicle's pollution control system shall invalidate this Executive Order.

Marketing of this device using any identification other than that shown in this Executive Order or marketing of this device 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 device 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-540-1 and D-474) and emission test data generated on a 2005 model year 4.6L Ford Mustang certified to the Low Emission Vehicle II Low Emission Vehicle (LEV II LEV) emission standards. Test results on the Ford Mustang showed that emission levels, with the Thorley Headers installed, met the applicable emission standards when tested using the Cold-Start CVS-75 Federal Test Procedure and Supplemental Federal Test Procedure (US06) test cycles. Examination of the OBD II system showed the Thorley Headers does not affect OBD II system operation. Results from emission testing conducted at Automotive Testing and Development Services, Inc., 400 South Etiwanda Avenue, Ontario, California 91761, are shown below, in grams per mile, with deterioration factors (df) applied to Cold-Start CVS-75 Federal Test Procedure test results.

| **Ford Mustang** | CVS-75 | | | | US06 | |
|---|---|---|---|---|---|---|
| | NMOG | CO | NOx | HCHO | NMHC+NOx | CO |
| Standards 50k | 0.075 | 3.4 | 0.05 | 0.015 | 0.14 | 8.0 |
| Device w/df | 0.059 | 1.6 | 0.05 | 0.001 | 0.02 | 1.6 |

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 CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF SUMMIT INDUSTRIES, INC.'S THORLEY HEADERS.

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 ten days 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 will 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 14th day of June 2006.

Allen Lyons, Chief
Mobile Source Operations Division

# Exhibit A

TOYOTA TRUCKS – LONG TUBE HEADER

| *MODEL-YEAR* | *DESCRIPTION* | *PART #* |
|---|---|---|
| 1988-95 | 22R/RE | THY-504 |
| 1981-87 | 22R/RE | THY-503 |
| 1988-95 | 3.0L V6 | THY-505 |
| 1995-99* | 2.4L/ 2.7L | THY-506 |

* The following engine families are certified to a low emission vehicle standard and are excluded from this exemption: 1997, VTY2.71JG2GK, 1998, WTYXT02.7DXH, 1999, XTYXT02.7DXJ:

FORD – SHORT TUBE HEADER

| *MODEL-YEAR* | *DESCRIPTION* | *PART #* |
|---|---|---|
| 1997-03 | F150/ F250/ EXPEDITION, 5.4L, w/ EGR | THY-217 |
| 2004-06 | F150, 5.4L 3V | THY-221 |
| 1999-04 | LIGHTNING, 5.4L SUPER CHARGED | THY-223 |
| 1997-03 | F150/ F250/ EXPEDITION, 4.6L, w/ EGR | THY-222 |
| 2004-06 | F150, 4.6L, w/ EGR | THY-219 |
| 2003-06 | RANGER, 4.0L, NO EGR | THY-220 |
| 2000-05 | RANGER, 4.0L, w/ EGR | THY-226 |
| 2005-06 | MUSTANG GT, 4.6L 3V | THY-290 |

FORD – TRI-Y LONG TUBE HEADER, 6.8L

| *MODEL-YEAR* | *DESCRIPTION* | *PART #* |
|---|---|---|
| 1999-04 | F250/ F350/ EXCURSION, NO EGR | THY-218Y |
| 1999-04 | F250/ F350/ EXCURSION, w/ EGR | THY-218Y-S |
| 1999-04 | CLASS "A" MOTORHOME, F53, NO EGR | THY-218Y1 |
| 2005-06 | F250/ F350/ EXCURSION | THY-224 |

GENERAL MOTORS – SHORT TUBE HEADER

| *MODEL-YEAR* | *DESCRIPTION* | *PART #* |
|---|---|---|
| 2002-06* | TRUCKS AND SUVS 4.8/5.3/6.0L | THY-309 |
| 2001-06 | CLASS A MOTORHOMES, WORKHORSE W CHASSIS WITH 8.1L GM ENGINE | THY-312 |
| 2001-06 | Trucks and SUVs 8.1L | THY-314 |

* 2005 and 2006 model year General Motors Vans and 2004 through 2006 model year General Motors engine test groups 4GMXT05.3178, 4GMXT06.0187, 5GMXT06.0187, 5GMXT05.3178, 5GMXT06.0199, 6GMXT05.3378, 6GMXT06.0387, 6GMXT06.2390, and 6GMXT06.0199 which are certified to a Low Emission Vehicle I Super Low Emission Vehicle emission standard are excluded from this Executive Order.