

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-540-3

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, Ford and Suzuki/GEO vehicles are a shorty style header, excluding the Ford 6.8L vehicles. The Thorley Headers for the Toyota and Ford 6.8L vehicles 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-540-2) conducted on a 2003 model year Chevrolet C1500 with a 5.3L engine and certified to the Low Emission Vehicle I Ultra Low Emission Vehicle (LEV I ULEV) emission standards and a 2005 model year 4.6L Ford Mustang certified to the Low Emission Vehicle II Low Emission Vehicle (LEV II LEV) emission standards. Furthermore, Summit Industries, Inc. submitted emission test results on a 1998 model year Geo Tracker that showed emission levels, with the Thorley Headers installed, met the applicable emission standards when tested using the Cold-Start CVS-75 Federal Test Procedure test cycle. Examination of the OBD II system showed the Thorley Headers do 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.

Geo Tracker	CVS-75		
	NMHC	CO	NOx
Standards 100k	0.31	4.2	0.6
Device w/df	0.16	3.2	0.3

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 3 day of November 2006.



Annette Hebert, Chief
Mobile Source Operations Division

Exhibit A

TOYOTA TRUCKS – LONG TUBE HEADER

<u>MODEL-YEAR</u>	<u>DESCRIPTION</u>	<u>PART #</u>
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:

SUZUKI/GEO – SHORT TUBE HEADER

<u>MODEL-YEAR</u>	<u>DESCRIPTION</u>	<u>PART #</u>
1992-98	Samurai / Sidekick / Tracker, w/ 1.3L to 1.6L 16 valve, 4WD	THY-716Y

FORD – SHORT TUBE HEADER

<u>MODEL-YEAR</u>	<u>DESCRIPTION</u>	<u>PART #</u>
1997-03	F150/ F250/ EXPEDITION, 5.4L, w/ EGR	THY-217
2004-07	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
2004-07	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
2005-07	MUSTANG GT, 4.6L 3V	THY-290

FORD – TRI-Y LONG TUBE HEADER, 6.8L

<u>MODEL-YEAR</u>	<u>DESCRIPTION</u>	<u>PART #</u>
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

Exhibit A

GENERAL MOTORS – SHORT TUBE HEADER

<u>MODEL-YEAR</u>	<u>DESCRIPTION</u>	<u>PART #</u>
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.