

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-167-32

Relating to Exemptions Under Section 27156  
of the California Vehicle Code

Hedman Hedders  
Exhaust 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 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 Exhaust Headers, manufactured and marketed by Hedman Hedders, 12438 Putnam Street, Whittier, California 90602, 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 vehicle applications listed in Exhibit A.

The Exhaust Headers are a shorty header design manufactured out of 14 gage mild steel tubing or 14 gage stainless tubing. The oxygen sensor is in the stock location at the collector and the stock connecting pipe is retained.

This Executive Order is valid provided that the installation instructions for the Exhaust Headers 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 Exhaust Headers, 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 Exhaust Headers 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 Exhaust Headers using any identification other than that shown in this Executive Order or marketing of the Exhaust Headers 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 Exhaust Headers may have on any warranty either expressed or implied by the vehicle manufacturer.

This Executive Order is granted based on submitted emission test data generated on a 2007 model year 5.4L Ford F150, certified to the Low Emission Vehicle II Ultra Low Emission Vehicle (LEV II ULEV) emission standards and modified with the mild steel Exhaust Headers. Test results showed that emission levels met the applicable emission

standards when tested using the Cold-Start CVS-75 Federal Test Procedure (FTP) test cycle and the Supplemental Federal Test Procedure test cycle. Examination of the OBD II system showed the Exhaust Headers did not affect OBD II system operation. Results from emissions testing conducted at Automotive Testing and Development Services, Inc., located in Ontario, California, are shown below (in grams per mile with deterioration factors applied).

2007 F150	CVS-75 FTP				SFTP	
	NMOG	CO	NOx	HCHO	NMHC+NOx	CO
Standards, UL	0.070	2.1	0.04	0.011	1.49 (composite)	13.2 (US06)
Device Test	0.049	1.1	0.03	0.000	0.05	8.9

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 EXHAUST 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 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 26 day of August 2009.



Annette Hebert, Chief  
Mobile Source Operations Division

Exhibit A

MFR	MODELS	YEARS	ENGINE	STANDARD PAINTED	HTC COATED	ELITE / STAINLESS
FORD	MUSTANG	99-02	3.8L V6	88290	88296	
FORD	MUSTANG	99-02	3.8L V6	88291	86291	
FORD	MUSTANG (Excluding 2007 model year Mustangs with engine test group 7FMXV04.6VBB list on tune-up label)	05-07	4.6L (3V)	88700	88706	
FORD	1/2 & 3/4 TON PICKUP, F-150, F-250, F-350 (Light Duty ONLY)	97-04	4.6L (2V)	89490	89496	
FORD	1/2 & 3/4 TON PICKUP, F-150, F-250, F-350 (Light Duty ONLY)	88-97	460 (7.5L)	89510	89516	
FORD	F-150, F-250, F-350 (Light Duty)	88-93	460 (7.5L)	89510	89516	
FORD	1/2 & 3/4 TON PICKUP, F-150, F-250, F-350 (Light Duty ONLY)	88-97	460 (7.5L)	89511	86511	
FORD	F-150, F-250, F-350 (Light Duty)	94-97	460 (7.5L)	89511	86511	
FORD	1/2 & 3/4 TON PICKUP, F-150, F-250, F-350 (Light Duty ONLY)	98-04	5.4L (2V)	89600	89606	
FORD	EXPEDITION	97-02	5.4L (2V)	89600	89606	

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MFR	MODELS	YEARS	ENGINE	STANDARD PAINTED	HTC COATED	ELITE / STAINLESS
FORD	EXPEDITION	97-02	5.4L (2V)	89600	89606	
FORD	EXPLORER	96-98	4.0L V6	89610	89616	
FORD	RANGER	95-98	4.0L V6	89620	89626	
FORD	F-250, F-350 (Light Duty)	99-05	6.8L (V10)	89660	89666	
FORD	F-150, F-250, f350 (Light Duty)	99-05	6.8L (V10)	89660	89666	
FORD	MOTORHOMES (CLASS "A" FULL SIZE)	88-93	460 (7.5L)	89710	89716	
FORD	MOTORHOMES (CLASS "A" FULL SIZE)	94-98	460 (7.5L)	89711	86711	
FORD	1/2 & 3/4 TON PICKUP, F-150, F-250, F-350 (Light Duty ONLY)	98-04	5.4L (2V)		82606	82600
FORD	1/2 & 3/4 TON PICKUP, F-150, F-250, F-350 (Light Duty ONLY)	04-09	5.4L (3V)		82636	82630
FORD	EXPEDITION	97-02	5.4L (2V)		82606	82600

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MFR	MODELS	YEARS	ENGINE	STANDARD PAINTED	HTC COATED	ELITE / STAINLESS
FORD	F-150, F-250, F-350 (Light Duty)	04-09	5.4L (3V)		82636	82630
FORD	FOCUS	00-04	2.0L SOH	86010	86016	
FORD	MUSTANG	86-93	5.0L	88600	88606	
FORD	MUSTANG	94-95	5.0L	88630	88636	
FORD	MUSTANG	94-95	5.0L	88634	86634	
FORD	MUSTANG	86-93	5.0L	88640	88646	
FORD	EXPLORER	92-95	4.0L V6	89400	89406	
FORD	RANGER	90-94	4.0L V6	89400	89406	
FORD	RANGER	90-94	4.0L V6	89400	89406	
FORD	EXPLORER (Sport-Trac)	92-96	4.0l v6	89400	89406	

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MFR	MODELS	YEARS	ENGINE	STANDARD PAINTED	HTC COATED	ELITE / STAINLESS
FORD	1/2 & 3/4 TON PICKUP, F-150, F-250, F-350 (Light Duty ONLY)	86-96	5.8L	89420	89426	89428
FORD	BRONCO	86-96	5.8L	89420	89426	89428
FORD	F150, BRONCO	86-96	5.8L	89420	89426	89428
FORD	1/2 & 3/4 TON PICKUP, F-150, F-250, F-350 (Light Duty ONLY)	86-96	5.8L	89421	86421	81428
FORD	BRONCO	86-96	5.8L	89421	86421	81428
FORD	F-150, BRONCO	86-96	5.8L	89421	86421	81428
FORD	1/2 & 3/4 TON PICKUP, F-150, F-250, F-350 (Light Duty ONLY)	88-93	460 (7.5L)	89461	86461	
FORD	F-150, F-250, F-350 (Light Duty)	88-93	460 (7.5L)	89461	86461	
FORD	1/2 & 3/4 TON PICKUP, F-150, F-250, F-350 (Light Duty ONLY)	86-96	5.0L	89470	89476	89478
FORD	BRONCO	86-95	5.0L	89470	89476	89478

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MFR	MODELS	YEARS	ENGINE	STANDARD PAINTED	HTC COATED	ELITE / STAINLESS
FORD	F-150, BRONCO	86-95	5.0L	89470	89476	89478
FORD	EXPEDITION	97-02	4.6L	89490	89496	
FORD	F-150, F-250, F-350 (Light Duty)	97-04	4.6L (2V)	89490	89496	
FORD	EXPEDITION	97-02	4.6L	89490	89496	
FORD	F-150, F-250, F-350 (Light Duty)	99-04	5.4L (2V)	89600	89606	
FORD	EXPLORER (Sport-Trac)	96-98	4.0L V6	89610	89616	
FORD	RANGER	95-98	4.0L V6	89620	89626	
FORD	RANGER	98-06	4.0L V6	89640	89646	
FORD	F-150, F-250, F-350 (Light Duty)	99-04	5.4L (2V)		82606	82600