

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-633

Relating to Exemptions Under Section 27156
of the California Vehicle Code

Cobra Engineering
Fi2000R-ARB

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 Fi2000R-ARB, produced and marketed by Cobra Engineering of 23801 E. La Palma Avenue, Yorba Linda, California 92887, 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 2008 model year and older on road motorcycles originally equipped with an oxygen sensor, as listed in Exhibit A.

The Fi2000R-ARB is an electronic control box designed to increase fuel into the combustion chamber during high load conditions. The Fi2000R-ARB has no user adjustments and is not designed to allow a user to download or modify the programming.

This Executive Order is valid provided the installation instructions for the Fi2000R-ARB will not recommend tuning the motorcycle to specifications different from those of the Cobra Engineering.

Changes made to the design or operating conditions of the Fi2000R-ARB, as exempt by the Air Resources Board, which adversely affect the performance of the vehicle's pollution control system shall invalidate this Executive Order.

Marketing of the Fi2000R-ARB using any identification other than that shown in this Executive Order or marketing of the Fi2000R-ARB 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 Fi2000R-ARB 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 two motorcycles using the Cold-Start CVS-75 Federal Test Procedure. Results from emission testing conducted at Ecologic Testing Laboratory, located in Fullerton, California, are shown on page 2. in grams per kilometer.

2007 Yamaha VStar 1.3L			
	HC	CO	NOx
Stock	0.115	1.112	0.027
Device	0.113	1.121	0.029
Difference	-0.002	0.009	0.002
% Change	-2%	8%	1%

2007 Harley Davidson Sportster 1.2L			
	HC	CO	NOx
Stock	0.981	3.692	0.308
Device	1.081	3.857	0.314
Difference	0.1	0.165	0.006
% Change	10%	4%	2%

Exhaust emissions during comparative Cold-Start CVS-75 Federal Test Procedure showed that the Fi2000R-ARB did not cause emissions to exceed baseline by more than the allowed limits of 10 percent on hydrocarbon (HC) and oxides of nitrogen (NOx), and 15 percent on carbon monoxide (CO). Similar effect on motorcycle emissions is expected with the installation of the Fi2000R-ARB on motorcycles listed in Exhibit A of this Executive Order.

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 COBRA ENGINEERING'S FI2000R-ARB.

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 19 day of March 2008.



Annette Hebert, Chief
Mobile Source Operations Division

Exhibit A

BRAND	PART #	MODEL FITMENT
CLOSED LOOP (Motorcycles equipped with an O2 sensor)		
Harley	692-1608CL-50	Dresser 2007 (ARB)
	692-1612CL-50	Dresser 2008 (ARB)
	692-1609CL-50	Dyna 2006 (ARB)
	692-1606CL-50	Dyna 07-08 (ARB)
	692-1611CL-50	Rocker 2008 (ARB)
	692-1607CL-50	Softail 07-08 (ARB)
	692-1620CL-50	Sportsters 07-08 (ARB)
	692-1613CL-50	V-Rod 2008 (ARB)
Honda	92-1650CL-50	VTX1800C/R/S/F/N 02-08 (ARB)
Kawasaki	92-1964CL-50	Vulcan 2000 04-08 (ARB)
	"	Vulcan 2000 Classic 06-08 (ARB)
	"	Vulcan 2000 Classic LT 06-08 (ARB)
Yamaha	92-1771CL-50	Road Star 2008 (ARB)
	92-1773CL-50	Roadliner/Stratoliner 06-08 (ARB)
	92-1774CL-50	V-Star 1300/Tourer 07-08 (ARB)
	92-1777CL-50	Raider 2008 (ARB)
Victory	92-1051CL-50	Vegas 2008
	92-1051CL-50	Kingpin 2008
	92-1051CL-50	Hammer 2008
	92-1051CL-50	Jackpot 2008

CLOSED LOOP SPORTBIKE (Motorcycles equipped with an O2 sensor)		
Honda	92-5002CL-50	CBR600F4i 01-07
	92-5005CL-50	CB919 02-08
Kawasaki	92-5056CL-50	ZX10R 08
	92-5055CL-50	Z1000 07-08
Suzuki	92-5110CL-50	GSXR1000 07-08
Yamaha	92-5157CL-50	YZF-R6 06-07
	92-5161CL-50	YZF-R1 07-08
	92-5156CL-50	FZ6 04-07
	92-5158CL-50	FZ1 06-07
	92-5159CL-50	FJR1300 03-05
	92-5160CL-50	FJR1300 06-08