



Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the engine and emission control systems produced by the manufacturer are certified for use as a replacement engine in two-wheeled motorcycles as described below. Production engines shall be in all material respects identical to those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	EVAPORATIVE FAMILY	ENGINE DISPLACEMENTS (cc)	CLASS
2004	4SSXC0096155	4SSXE0066161	1564	III
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		ENGINE MODEL		* = not applicable
EM		96		
<small>ABBREVIATIONS: EM=engine modification TWC=three-way catalyst OC=oxidizing catalyst WUTWC/WUOC=warm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S EGR=exhaust gas recirculation AIR=secondary air injection PAIR=pulsed AIR MFI=multi port fuel injection SFI=sequential MFI TBI=throttle body fuel injection DFI=direct fuel injection TC/SC=turbo/super charger CAC=charge air cooler 2 (prefix)=parallel (2) (suffix)=in series</small>				

The above-listed engine is certified to replace the existing engines of Harley-Davidson models that use the engines and evaporative systems listed on the supplemental data sheet for this executive order.

The following are the exhaust hydrocarbons (HC) and carbon monoxide (CO) standards, or designated HC standard as applicable, and certification levels in grams per kilometer (g/km), and evaporative standard and certification level in grams per test (g/test) for this engine/evaporative family. The designated HC standard, as applicable, shall be listed on the permanent tune-up label.

CORPORATE AVERAGE STANDARD	HC (g/km)			CO (g/km)		EVAPORATIVE (g/test)	
	DESIGNATED STANDARD	(DIRECT) STANDARD	CERTIFICATION LEVEL	STANDARD	CERTIFICATION LEVEL	STANDARD	CERTIFICATION LEVEL
*	*	1.4	0.7	12	6	2.0	1.0

BE IT FURTHER RESOLVED: That certification to the designated HC standard listed above, as applicable, is subject to the following terms, limitations and conditions:

The designated HC standard shall be the exhaust emission limit for this engine family and cannot be changed during the model year. It serves as the HC exhaust standard applicable to this engine family for determining compliance with Title 13, California Code of Regulations, Sections 1958(b) and 2101.

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all materials required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Code of Regulations, Sections 2035 et seq.).

BE IT FURTHER RESOLVED: That this executive order does not provide an opinion as to the effect that the use of the aforementioned engine family as a replacement engine may have on the original vehicle manufacturer's warranty, either expressed or implied, for the vehicle applications listed on the supplemental data sheet of this executive order.

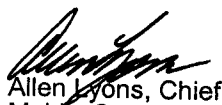
BE IT FURTHER RESOLVED: That compliance with "California Evaporative Emission Standards and Test Procedures for 2001 And Subsequent Model Motor Vehicles" has been demonstrated for the use of the aforementioned engine family as a replacement engine in the listed vehicle applications.

BE IT FURTHER RESOLVED: That the use of this engine family as a replacement engine in the vehicle applications listed on the supplemental data sheet of this executive order is exempted from compliance with the Air Resources Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" pursuant to Executive Order G-70-16-E.

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 4TH day of December 2003.


Allen Lyons, Chief

Mobile Source Operations Division

Attachment

Supplemental Data Sheet
Model Designation / Engine Replacement List

M-044008

MY 1984	FLT	FHL	FLHB	FLHC	FLHP	FLHT	FLHTC	FLHTP	FLTC	FLHS	FXB	FXE	FXEF	FXR	FXRP	FXRS	FXRT	FXS	FXST	FXSB	FXWG
Model Name	1338.6																				
Displacement	EV1340																				
Eng Family	80-EV-1																				
Eng Code	EM																				
Emis Cont	490	350	340	330	290																
EIM	169.4	145.6	143.6	141.8	133.4																
RLP																					
MY 1985																					
Model Name	1338.6																				
Displacement	EV1340																				
Eng Family	80-EV-2																				
Eng Code	EM																				
Emis Cont	490	340	290																		
EIM	169.4	143.6	133.4																		
RLP																					
MY 1986																					
Model Name	1338.6																				
Displacement	EV1340																				
Eng Family	80-EV-5																				
Eng Code	EM																				
Emis Cont	490	350	340	290																	
EIM	169.4	145.6	143.6	133.4																	
RLP																					
MY 1987																					
Model Name	1338.6																				
Displacement	EV1340																				
Eng Family	80-EV-8																				
Eng Code	EM																				
Emis Cont	490	440																			
EIM	169.4	163.7																			
RLP																					
MY 1988																					
Model Name	1339																				
Displacement	EV1340																				
Eng Family	80-EV-9																				
Eng Code	EM																				
Emis Cont	490	440																			
EIM	169.4	163.7																			
RLP																					
MY 1989																					
Model Name	1338																				
Displacement	EV1340																				
Eng Family	80-EV-9																				
Eng Code	EM																				
Emis Cont	490	440																			
EIM	169.4	163.7																			
RLP																					

Attachment

Supplemental Data Sheet
Model Designation / Line Replacement List

M-044F0008

MY 1990		FLHS	FLHTC	FLHTC U	FLHTP	FLTC	FLTC U	FLTRP	FLST	FLSTC	FLSTF	FXDS	FXR	FXRS	FXRS C	FXRS S	FXRT	FXST	FXSTC	FXSTS		
Model Name	Displacement	1338																				
Eng Family		EV1340																				
Eng Code		80-EV-11																				
Emis Cont		EM																				
EIM		440																				
RLP		169.4																				
MY 1991		FLHS	FLHTC	FLHTC U	FLHTP	FLTC	FLTC U	FLTRP	FLST	FLSTC	FLSTF	FXDS	FXR	FXRP	FXRS	FXRS C	FXRS S	FXRT	FXSTC	FXSTS	FXDL	
Model Name	Displacement	1338																				
Eng Family		EV1340																				
Eng Code		80-EV-11																				
Emis Cont		EM																				
EIM		440																				
RLP		163.7																				
MY 1992		FLHS	FLHTC	FLHTC U	FLHTP	FLTC	FLTC U	FLTRP	FLST	FLSTC	FLSTF	FXB-D	FXR	FXRP	FXRS	FXRS C	FXRS S	FXRT	FXSTC	FXSTS	FXLR	FXDC
Model Name	Displacement	1338																				
Eng Family		EV1340																				
Eng Code		80-EV-15																				
Emis Cont		EM																				
EIM		440																				
RLP		163.7																				
MY 1993		FLTC U	FLHTC U	FLHTC	FLHTP	FLHS	FLSTC	FLSTF	FLSTN	FXDWG	FXR	FXRP	FXRS C	FXRS S	FXRT	FXSTC	FXSTS	FXLR	FXDL			
Model Name	Displacement	1338																				
Eng Family		EV1340																				
Eng Code		80-EV-15																				
Emis Cont		EM																				
EIM		440																				
RLP		169.4																				
MY 1994		FLTC U	FLHTC U	FLHTC	FLHTP	FLSTF	FLHR	FLHS	FLSTN	FXDWG	FXR	FXRP	FXSTC	FXSTS	FXLR	FXDL	FXDS C	FLSTC				
Model Name	Displacement	1338																				
Eng Family		RHD1.3P1GARA																				
Eng Code		80-EV-19																				
Emis Cont		EM																				
EIM		440																				
RLP		169.4																				
MY 1995		FLTC U	FLHTC U	FLHTC	FLHTP	FLHT	FLHR	FLSTC	FLSTF	FLSTN	FXDWG	FXSTC	FXSTS	FXD	FXDS B	FXDS	FLHTC UI					
Model Name	Displacement	1338																				
Eng Family		SHD1.3P8GARA																				
Eng Code		80-EV-23																				
Emis Cont		80-EV-19																				
EIM		560																				
		Oxidation Catalytic Converter																				
		Sequential Multipoint Fuel Injector																				
		SHD1.3P8GARA																				
		80-FI-1																				
		560																				

Supplemental Data Sheet
Model Designation / Line Replacement List

M-044-0008

Attachment

RLP	177.3	163.7	177.3
MY 1996			
Model Name	FLHTCU	FLHTC	FLHR
Displacement	FLHTCU	FLHTC	FLHR
Eng Family	THD1.3P1G0AA		
Eng Code	80-EV-27		
Emis Cont	Oxidation Catalytic Converter		
EIM	560	440	
RLP	177.3	163.7	
MY 1997			
Model Name	FLHTCU	FLHTC	FLHR
Displacement	FLHTCU	FLHTC	FLHR
Eng Family	VHD1.3P1GAAA		
Eng Code	80-EV-27		
Emis Cont	Oxidation Catalytic Converter		
EIM	560	440	
RLP	177.3	163.7	
MY 1998			
Model Name	FLHTCU	FLHTC	FLHR
Displacement	FLHTCU	FLHTC	FLHR
Eng Family	WHDXC01.3CCA		
Eng Code	80-EV-27		
Emis Cont	Oxidation Catalyst		
EIM	560	440	
RLP	177.3	163.7	
MY 1999			
Model Name	FLSTC	FLSTF	FLSTS
Displacement	FLSTC	FLSTF	FLSTS
Eng Family	XHDXC01.3CCA		
Eng Code	80-EV-29		
Emis Cont	Oxidation Catalyst		
EIM	440	560	
RLP	163.7	177.3	