

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	4SSXC0124309	4SSXE0066161	2026	III
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		ENGINE MODEL		* = not applicable
EM		124		
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				

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 hydrocarbon plus oxides of nitrogen (HC+NOx) and carbon monoxide (CO) standards, or designated HC+NOx 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+NOx standard, as applicable, shall be listed on the permanent tune-up label.

HC+NOx (g/km)				EARLY COMPLIANCE CREDIT MULTIPLIER		*	
				CO (g/km)		EVAPORATIVE (g/test)	
CORPORATE AVERAGE STANDARD	DESIGNATED STANDARD	(DIRECT) STANDARD	CERTIFICATION LEVEL	STANDARD	CERTIFICATION LEVEL	STANDARD	CERTIFICATION LEVEL
*	*	1.4	1.0	12	9	2.0	1.0

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

The designated HC+NOx standard shall be the exhaust emission limit for this engine family and cannot be changed during the model year. It serves as the HC+NOx 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 listed motorcycles are certified to the aforementioned HC+NOx standard, or designated standard as applicable, prior to the 2008 model year and are hereby granted an early-compliance credit multiplier listed above pursuant to Title 13, California Code of Regulations, Section 1958(g).

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: The use of the 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 17th day of November 2003.


Allen Lyons, Chief
Mobile Source Operations Division

M-044-060

Figure 1

MY 1990																					
Model Name	FLHS	FLHTC	FLHTC U	FLHTP	FLTC	FLTC U	FLTRP	FLST	FLSTC	FLSTF	FXDS	FXR	FXRS	FXRS C	FXRS S	FXRT	FXST	FXSTC	FXSTS		
Displacement	1338																				
Eng Family	EV1340																				
Eng Code	80-EV-11																				
Emis Cont	EM																				
EIM	490																				
RLP	169.4																				
MY 1991																					
Model Name	FLHS	FLHTC	FLHTC U	FLHTP	FLTC	FLTC U	FLTRP	FLST	FLSTC	FLSTF	FXDS	FXR	FXRP	FXRS	FXRS C	FXRS S	FXRT	FXSTC	FXSTS	FXLR	FXDB
Displacement	1338																				
Eng Family	EV1340																				
Eng Code	80-EV-11																				
Emis Cont	EM																				
EIM	490																				
RLP	169.4																				
MY 1992																					
Model Name	FLHS	FLHTC	FLHTC U	FLHTP	FLTC U	FLSTC	FLSTF	FXDB-D	FXR	FXRP	FXRS	FXRS C	FXRS S	FXRT	FXSTC	FXSTS	FXLR	FXDC			
Displacement	1338																				
Eng Family	EV1340																				
Eng Code	80-EV-15																				
Emis Cont	EM																				
EIM	490																				
RLP	169.4																				
MY 1993																					
Model Name	FLTC U	FLHTC U	FLHTC	FLHTP	FLHS	FLSTC	FLSTF	FLSTN	FXDWG	FXR	FXRP	FXRS C	FXRS S	FXRT	FXSTC	FXSTS	FXLR	FXDL			
Displacement	1338																				
Eng Family	EV1340																				
Eng Code	80-EV-15																				
Emis Cont	EM																				
EIM	490																				
RLP	169.4																				
MY 1994																					
Model Name	FLTC U	FLHTC U	FLHTC	FLHTP	FLSTF	FLHR	FLHS	FLSTN	FXDWG	FXR	FXRP	FXSTC	FXSTC	FXDL	FXDS C	FLSTC					
Displacement	1338																				
Eng Family	RHD1.3P1GARA																				
Eng Code	80-EV-19																				
Emis Cont	EM																				
EIM	490																				
RLP	169.4																				
MY 1995																					
Model Name	FLTC U	FLHTC U	FLHTC	FLHTP	FLHT	FLHR	FLSTC	FLSTF	FLSTN	FXDWG	FXSTC	FXSTC	FXD	FXDS C	FXSTB	FXDS	FLHTC UI				
Displacement	1338																				
Eng Family	SHD1.3P1GOAA																				
Eng Code	80-EV-23																				
Emis Cont	80-EV-19																				
EIM	440																				
RLP	163.7																				
MY 1996																					
Model Name	FLTC U	FLHTC U	FLHTC	FLHTP	FLHT	FLHR	FLSTC	FLSTF	FLSTN	FXDWG	FXSTC	FXSTC	FXD	FXDS C	FXSTB	FXDS	FLHTC UI				
Displacement	1338																				
Eng Family	SHD1.3P1GOAA																				
Eng Code	80-EV-25																				
Emis Cont	Sequential Multiport Fuel Injection																				
EIM	560																				

