



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.

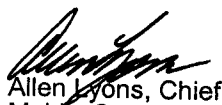
BE IT FURTHER RESOLVED: That compliance with "California Evaporative Emission Standards and Test Procedures for 2001 And Subsequent Model Motor Vehicles" has been demonstrated for the use of the aforementioned engine family as a replacement engine in the listed vehicle applications.

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 / Line Replacement List

M-044F-0008

MY 1990		FLHS	FLHTC	FLHTC U	FLHTP	FLTC	FLTC U	FLXP	FLST	FLSTC	FLSTF	FXDS	FXR	FXRS	FXRS C	FXRS S	FXRT	FXSTC	FXST	FXSTC	FXSTS	
Model Name	Displacement											1338										
Eng Family																						
Eng Code					80-EV-11																	
Emis Cont																						
EIM					490																	440
RLP					169.4																	163.7
EM																						
MY 1991		FLHS	FLHTC	FLHTC U	FLHTP	FLTC	FLTC U	FLXP	FLST	FLSTC	FLSTF	FXDS	FXR	FXRP	FXRS	FXRS C	FXRS S	FXRT	FXSTC	FXST	FXSTC	FXDB
Model Name	Displacement																					
Eng Family																						
Eng Code					80-EV-11																	
Emis Cont																						
EIM					490																	440
RLP					169.4																	163.7
EM																						
MY 1992		FLHS	FLHTC	FLHTC U	FLHTP	FLTC	FLTC U	FLXP	FLST	FLSTC	FLSTF	FXDS	FXR	FXRP	FXRS	FXRS C	FXRS S	FXRT	FXSTC	FXST	FXSTC	FXDC
Model Name	Displacement																					
Eng Family																						
Eng Code					80-EV-15																	
Emis Cont																						
EIM					490																	440
RLP					169.4																	163.7
EM																						
MY 1993		FLTC U	FLHTC	FLHTC U	FLHTP	FLHS	FLSTC	FLSTF	FLSTN	FXDWG	FXR	FXRP	FXRS	FXRS C	FXRS S	FXRT	FXSTC	FXST	FXSTC	FXLR	FXDL	
Model Name	Displacement																					
Eng Family																						
Eng Code					80-EV-15																	
Emis Cont																						
EIM					490																	440
RLP					169.4																	163.7
EM																						
MY 1994		FLTC U	FLHTC	FLHTC U	FLHTP	FLHS	FLSTC	FLSTF	FLSTN	FXDWG	FXR	FXRP	FXRS	FXRS C	FXRS S	FXRT	FXSTC	FXST	FXSTC	FXLS C	FLSTC	
Model Name	Displacement																					
Eng Family																						
Eng Code					80-EV-15																	
Emis Cont																						
EIM					490																	440
RLP					169.4																	163.7
EM																						
MY 1995		FLTC U	FLHTC	FLHTC U	FLHTP	FLHT	FLHR	FLHR	FLSTC	FLSTF	FLSTN	FXDWG	FXSTC	FXD	FXDS C	FXSTB	FXDS	FXD	FXD	FXD	FLHTC UI	
Model Name	Displacement																					
Eng Family																						
Eng Code					80-EV-23																	
Emis Cont																						
EIM					560																	
Oxidation Catalytic Converter																						
SHD1.3P1G0AA																						
80-EV-25																						
SHD1.3P8GARA																						
Sequential Multipoint Fuel Injector																						
80-FI-1																						
560																						

Attachment

Supplemental Data Sheet
Model Designation / Line Replacement List

M-044-0008

RLP		177.3														163.7														177.3													
MY 1996																																											
Model Name		FLHTCU	FLHTC	FLHR	FLHT	FLSTC	FLSTF	FXDL	FLSTN	FXDWG	FXSTC	FXSTS	FXD	FXDSC	FXSTSB	FLHTCU	FLHTC	FLHTC	FLHR																								
Displacement		1338																																									
Eng Family		THD1.3P1G0AA																												THD1.3P8GARA													
Eng Code		80-EV-27																												80-FI-2													
Emis Cont		Oxidation Catalytic Converter																												Sequential Multipoint Fuel Injection													
EIM		560																												560													
RLP		177.3																												177.3													
MY 1997																																											
Model Name		FLHTCU	FLHTC	FLHR	FLHT	FLSTC	FLSTF	FXDL	FXDWG	FXSTC	FXSTS	FXD	FXDSC	FXSTSB	FLHTCU	FLHTC	FLHTC	FLHR																									
Displacement		1338																																									
Eng Family		VHD1.3P1GAAA																												VHD1.3P8GARA													
Eng Code		80-EV-27																												80-FI-3													
Emis Cont		Oxidation Catalytic Converter																												Sequential Multipoint Fuel Injection													
EIM		560																												560													
RLP		177.3																												177.3													
MY 1998																																											
Model Name		FLHTCU	FLHTC	FLHR	FLHT	FLTR	FLSTC	FLSTF	FLSTS	FXDL	FXDWG	FXSTC	FXSTS	FXD	FXDSC	FXSTSB	FLHTCU	FLHTC	FLHTC	FLHR																							
Displacement		1338																																									
Eng Family		WHDXC01.3CCA																												WHDXC01.3AEA													
Eng Code		80-EV-27																												80-FI-3													
Emis Cont		Oxidation Catalyst																												Sequential Multipoint Fuel Injection													
EIM		560																												560													
RLP		177.3																												177.3													
MY 1999																																											
Model Name		FLSTC	FLSTF	FLSTS	FXST	FXSTC	FXSTS	FXSTB	FLHTCU	FLHTC	FLHR	FLTR	FLSTC	FLSTF	FLSTS	FXDL	FXDWG	FXSTC	FXSTS	FXD	FXDSC	FXSTSB	FLHTCU	FLHTC	FLHTC	FLHR																	
Displacement		1338																																									
Eng Family		XHDXC01.3CCA																												XHDXC01.3AEA													
Eng Code		80-EV-29																												80-FI-3													
Emis Cont		Oxidation Catalyst																												Sequential Multipoint Fuel Injection													
EIM		440																												560													
RLP		163.7																												177.3													