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
2007	7SSXC0113161	7SSXE0066161	1853, 1750, 1647	III
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		**ENGINE MODEL**		* = not applicable
EM		1853 cc: V113E 1750 cc: V107E 1647 cc: V100E		

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.

				EARLY COMPLIANCE CREDIT MULTIPLIER		*	
HC+NOx (g/km)				**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	12	2.0	1.2

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 for certification to the above-listed HC+NOx emission standard, or designated standard as applicable, the engine family has been granted an early-compliance credit multiplier listed above for use in the 2008 model-year in accordance with 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: That the vehicles listed on the supplemental data sheet of this Executive Order and equipped with engines in this engine family are 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 ___26___ day of February 2007.

Annette Hebert, Chief
Mobile Source Operations Division

Model Designation / Engine Replacement List

M-044-0016

MY 1984

Model Name	FLT	FHL	FLHB	FLHC	FLHP	FLHT	FLHTC	FLHTP	FLTC	FLHS	FXB	FXE	FXEF	FXR	FXRP	FXRS	FXRT	FXS	FXST	FXSB	FXWG
Displacement																					
Eng Family	80-EV-1																				
Eng Code																					
Emis Cont																					
EIM	490																				
RLP	169.4																				

MY 1985

Model Name	FLT	FLTC	FXE	FXEF	FXR	FXRDG	FXRP	FXRS	FXRT	FXS	FXST	FXSB	FXWG
Displacement													
Eng Family	80-EV-1												
Eng Code													
Emis Cont	80-EV-2												
EIM	490	340											
RLP	169.4	143.6		350	340	330				290			
				145.6		143.6	141.8			133.4			

MY 1986

Model Name	FLT	FLHT	FLHTP	FLHTC	FLTC	FXE	FXEF	FXR	FXRDG	FXRP	FXRS	FXRT	FXS	FXST	FXSB	FXWG
Displacement								EV1340								
Eng Family	80-EV-5															
Eng Code																
Emis Cont						EM				80-EV-8						
EIM	490	350				290			290							
RLP	169.4	145.6	143.6	340		133.4			133.4							

MY 1987

Model Name	FLTC	FXRP	FXRS	FLHTP	FLHTC	FLST	FXR	FXRT	FLHT	FXST	FXSTC	FXLR	FXRC
Displacement						1338.6	1338.6						
Eng Family	80-EV-7	80-EV-8	80-EV-7			EV1340	EV1340						
Eng Code	80-EV-7	80-EV-8				80-EV-8		80-EV-8					
Emis Cont						EM	EM						
EIM	490					440	440						
RLP	189.4	143.6				163.7	163.7						

MY 1988

Model Name	FLTC	FXRP	FLHTP	FLHTC	FXRS	FXRT	FLST	FXST	FXSTC	FXLR	FXR	FXSTS
Displacement	1338.6						1339					
Eng Family	EV1340						EV1340					
Eng Code	80-EV-8						80-EV-9					
Emis Cont	EM						EM					
EIM	490						440					
RLP	169.4						163.7					

MY 1989

Model Name	FLTC	FXRP	FLHTP	FLHTC	FLHS	FLHTC U	FLTC U	FLST	FXST	FXSTC	FXLR	FXR	FXSTS	FXSTL	FXRS	FXRT
Displacement	1338							1338								
Eng Family	EV1340							EV1340								
Eng Code	80-EV-8							80-EV-8								
Emis Cont	EM							EM								
EIM	490							440								
RLP	169.4							163.7								

Model Designation / Engine Replacement List

MY 1990

Row	Values
Model Name	FLHS · FLHTC · FLHTC U · FLHTP · FLTC · FLTC U · FXRP · FLST · FLSTC · FLSTF · FXDS · FXR · FXRS · FXRS C · FXRS S · FXRT · FXST · FXSTC · FXSTS
Displacement	1340
Eng Family	EV1340
Eng Code	80-EV-11 · 80-EV-13
Emis Cont	EM
EIM	490 · 440
RLP	169.4 · 163.7

MY 1991

Row	Values
Model Name	FLHS · FLHTC · FLHTC U · FLHTP · FLTC · FLTC U · FLSTC · FLSTF · FXDS · FXR · FXRP · FXRS · FXRS C · FXRS S · FXRT · FXSTC · FXSTS · FXLR · FXDB
Displacement	1340
Eng Family	EV1340
Eng Code	80-EV-11 · 80-EV-13
Emis Cont	EM
EIM	490 · 440
RLP	169.4 · 163.7

MY 1992

Row	Values
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	133B
Eng Family	EV1340
Eng Code	80-EV-15 · 80-EV-17
Emis Cont	EM
EIM	490 · 440
RLP	169.4 · 163.7

MY 1993

Row	Values
Model Name	FLTC U · FLHTC U · FLHTC · FLHTP · FLHS · FLSTC · FLSTF · FLSTN · FXDWG · FXR · FXRP · FXRS · FXRS C · FXRS S · FXRT · FXSTC · FXSTS · FXLR · FXDL
Displacement	133B
Eng Family	EV1340
Eng Code	80-EV-15 · 80-EV-17
Emis Cont	EM
EIM	490 · 440
RLP	169.4 · 163.7

MY 1994

Row	Values
Model Name	FLTC U · FLHTC U · FLHTC · FLHTP · FLSTF · FLHR · FLSTC · FLSTF · FLSTN · FXDWG · FXR · FXRP · FXSTC · FXSTS · FXLR · FXDL · FXDS C · FLSTC
Displacement	133B
Eng Family	RHD1.3P1GARA
Eng Code	80-EV-19 · 80-EV-21 · 80-EV-23
Emis Cont	EM
EIM	490 · 440
RLP	169.4 · 163.7

MY 1995

Row	Values
Model Name	FLTC U · FLHTC U · FLHTC · FLHTP · FLHT · FLHR · FLSTC · FLSTF · FLSTN · FXDWG · FXSTC · FXSTS · FXD · FXDS C · FXSTB · FXDS · FLHTC U
Displacement	133B
Eng Family	SHD1.3P1GOAA · SHD1.3PBGARA
Eng Code	80-EV-23 · 80-EV-19 · 80-EV-25 · 80-FI-1
Emis Cont	Oxidation Catalytic Converter · Sequential Multiport Fuel Injection
EIM	560 · 440 · 560
RLP	

Model Designation / Engine Replacement List

MY 1996

	RLP	177.3	163.7	177.3

Model Name	Displacement	Eng Family	Eng Code	Emis Cont	EIM	RLP
FLHTC U	1338	THD1.3P1G0AA	80-EV-27	Oxidation Catalytic Converter	560	177.3
FLHTC						
FLHR						
FLHT						
FLSTC						
FLSTF						
FXDL						
FLSTN						
FXDWG						
FXSTC						
FXSTS						
FXD						
FXDS C						
FXSTSB						
FLHTC U		THD1.3P8GARA	80-FI-2	Sequential Multiport Fuel Inject	560	177.3
FLHTC I						
FLHR I						

MY 1997

Model Name	Displacement	Eng Family	Eng Code	Emis Cont	EIM	RLP
FLHTCU	133B	VHD1.3P1GAAA	80-EV-27	Oxidation Catalytic Converter	440	163.7
FLHTC						
FLHR						
FLHT						
FLSTC						
FLSTF						
FLSTS						
FXDL			80-EV-29			
FXDWG						
FXSTC						
FXSTS						
FXD						
FXDS C						
FXSTSB		VHD1.3P8GARA	80-FI-3	Sequential Multiport Fuel Inject	560	177.3
FLHTC U						
FLHTC I						
FLHR I						

MY 1998

Model Name	Displacement	Eng Family	Eng Code	Emis Cont	EIM	RLP
FLHTCU	1338	WHDXC01.3CCA	80-EV-29	Oxidation Catalyst	440	183.7
FLHTC						
FLHR						
FLHT						
FLTR						
FLSTC						
FLSTF						
FLSTS						
FXDL						
FXDWG						
FXSTC						
FXSTS						
FXD						
FXDS C						
FXSTSB		WHDXC01.3AEA	80-FI-3	Sequential Multiport Fuel Injection	560	177.3
FLHTC U						
FLHTC I						
FLHR I						

MY 1999

Model Name	Displacement	Eng Family	Eng Code	Emis Cont	EIM	RLP
FLSTC	1338	XHDXC01.3CCA	80-EV-29	Oxidation Catalyst	440	163.7
FLSTF						
FLSTS						
FXST						
FXSTC						
FXSTS						
FXSTB						
FLHTC U		XHDXC01.3AEA	80-FI-3	Sequential Multiport Fuel Injection	560	177.3
FLHTC I						
FLHR I						
FLTRI						
FLHRC I						
FLHP I						
FLHTP I						
FLTCRI						