California Environmental Protection Agency AIR RESOURCES BOARD	NORTHERN CALIFORNIA DIAGNOSTIC LABORATORIES, INC.	EXECUTIVE ORDER M-171-0004 New On-Road Motorcycle Engines

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
2010	ANCDC1856NCD	ANCDU0066NCD	1856, 1803, 1688	III
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		ENGINE MODEL		* = not applicable
TWC, 2O2S, SFI		1856 cc: NCD Touring A Motor 113 1803 cc: NCD Touring A Motor 110 1688 cc: NCD Touring A Motor 103		

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)				CO (g/km)		EVAPORATIVE (g/test)	
CORPORATE AVERAGE STANDARD	DESIGNATED STANDARD	(DIRECT) STANDARD	CERTIFICATION LEVEL	STANDARD	CERTIFICATION LEVEL	STANDARD	CERTIFICATION LEVEL
0.8	0.5	*	0.5	12	5	2.0	0.4

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 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.

This Executive Order hereby cancels Executive Order M-171-0002 dated December 29, 2009.

Executed at El Monte, California on this 13 day of May 2010.

Annette Hebert, Chief
Mobile Source Operations Division

Attachment M-171-0004

NCDL Northern California Diagnostic Laboratories, Inc.
2748 Jefferson Street, Napa, CA 94558 Ph# (707) 258-1753 / Fax (707) 258-1611
Website: www.ncdlinc.com E-Mail: ncdl@ncdlinc.com or mikess@ncdlinc.com

Vehicles Eligible for NCDL Replacement Engines to be placed in 2007 – 2010 Harley Davidson Motorcycles

For 2010 E.O.: VEHICLE MODELS

Harley Davidson 2007 – 2010 models:

1. FLHR (Road King), FLHR-SHRINE, FLHRS (Road King Custom), FLHRC (Road King Classic), FLHT (Electra Glide), Electra Glide Standard, FLHTC (Electra Glide Classic), FLHTCU (Electra Glide Ultra), FLHX (Street Glide), FLTR (Road Glide), FLHTCU SHRINE (Electra Glide Ultra SHRINE), FLHTK, FLTRX, FLHTCUH (Road King Heritage) FLHP, FLHPE, FLP, FLPE (FL Touring Police) FLHTP (Electraglide Police), FLTRSE3 (Screamin Eagle Road Glide), FLHTCUSE2, FLHTCUSE3, FLHTCUSE4, (Screamin Eagle Ultra), FLHXSE, FLHRSE3, FLHRSE4 (Screamin Eagle Road King)