California Environmental Protection Agency **Air Resources Board**	HARLEY-DAVIDSON MOTOR COMPANY	Executive Order: M-005-0208 New On-Road Motorcycles/Engines Page 1 of 3

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 1 and 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-14-012;

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 on road motorcycles as described below. Production engines shall be in all material respects identical to those for which certification is granted.

Model Year	Engine Family	Vehicle Category	Fuel Type(s)	Strokes per cycle
2015	FHDXC1.96AEG	HMC-III	GAS	4

Special Features & Emission Control Systems (ECS)	Engine(cc)
TWC, SFI, 2HO2S	1962

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

Exhaust Emissions (G/KM)			
Pollutant	CERT	STD	DES_STD
HC	0.33	*	*
HC+NOx	0.46	0.8	0.5
CO	3.0	12	

Diurnal and Hot Soak: Hydrocarbon Emissions (g/test)		
Evaporative Family (EVAP)	CERT	STD
FHDXU0025ACA	0.4	2.0

BE IT FURTHER RESOLVED: That certification to the designated HC or HC+NOx standard listed above, as applicable, is subject to the following terms, limitations and conditions. The designated HC or 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 or 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 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 certified to 0.2 grams per test or more below the applicable evaporative standard and are therefore exempt 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.

BE IT FURTHER RESOLVED: That the replacement engines covered by this Executive Order are valid only for production in the model-year listed above and for the 2015 model-year vehicle models certified under Executive Order M-005-0207 and listed in Attachment A.

Vehicles 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. Vehicles in this family that are produced for any other model-year are not covered by this Executive Order.

See Attachment A for vehicle descriptions.

Executed at El Monte, California on this 21 day of April 2015.

Annette Hebert, Chief
Emissions Compliance, Automotive Regulations and Science Division

ATTACHMENT A

Make	Model	Engine (cc)	EIM (kg)	TRANS	ECS	EVAP
HARLEY-DAVIDSON	ELECTRA GLIDE ULTRA CLASSIC	1962	490	M6	TWC, SFI, 2HO2S	FHDXU0025ACA
HARLEY-DAVIDSON	ELECTRA GLIDE ULTRA CLASSIC LOW	1962	490	M6	TWC, SFI, 2HO2S	FHDXU0025ACA
HARLEY-DAVIDSON	POLICE ELECTRA GLIDE	1962	490	M6	TWC, SFI, 2HO2S	FHDXU0025ACA
HARLEY-DAVIDSON	POLICE ROAD GLIDE	1962	490	M6	TWC, SFI, 2HO2S	FHDXU0025ACA
HARLEY-DAVIDSON	ROAD GLIDE	1962	470	M6	TWC, SFI, 2HO2S	FHDXU0025ACA
HARLEY-DAVIDSON	ROAD GLIDE SPECIAL	1962	470	M6	TWC, SFI, 2HO2S	FHDXU0025ACA
HARLEY-DAVIDSON	ROAD KING	1962	490	M6	TWC, SFI, 2HO2S	FHDXU0025ACA
HARLEY-DAVIDSON	STREET GLIDE	1962	490	M6	TWC, SFI, 2HO2S	FHDXU0025ACA
HARLEY-DAVIDSON	STREET GLIDE SPECIAL	1962	490	M6	TWC, SFI, 2HO2S	FHDXU0025ACA

ABBREVATIONS:

GENERAL: 13 CCR 1958, etc.=Title 13, California Code of Regulations, Section 1958, etc.; 40 CFR86.401-90, etc.=Title 40, Code of Federal Regulations, Section 86.401-90, etc.;

HIGHWAY MOTORCYCLE & OFF-HIGHWAY RECREATIONAL VEHICLE CATEGORIES: ATV or ATVA=all terrain vehicle conforming to the California definition in 13 CCR 2411(a); ATVB=Off-highway or non-road recreational vehicles that meet USEPA definition for an all-terrain vehicle or USEPA definition for an off-road utility vehicle and, in addition, meet one or more CARB definitions for an all terrain vehicle, off-road utility vehicle, off-road sport vehicle, and/or sand car; EGC=electric golf cart; HMC=on-road or highway motorcycle; HMC-IA / -IB=HMC below 50 cc / 50 cc to below 170 cc; HMC II=HMC 170 cc to below 280 cc; HMC-III=HMC 280 cc and above; OFMC=off-road motorcycle; SC=sand car above 1000 cc; OFRSV=off-road sport vehicle, including otherwise sand car but with 1000 cc engine or smaller; OFRUV=off-road utility vehicle;

FUEL TYPES: CLNG=natural gas in either CNG or LNG form; CNG / LNG=compressed / liquefied natural gas; DF_CNG/GAS=dual-fuel CNG or gasoline, etc; DSL=diesel; GAS=gasoline; HYD=hybrid; LPG=propane or liquefied petroleum gas;

EMISSION CONTROL SYSTEMS & SPECIAL FEATURES: AFS / HAFS=air fuel ratio sensor / heated AFS; (prefix) 2, 3, 4=2, 3, or 4 catalysts, sensors, TC, SC, CAC, etc. in parallel arrangement; (parenthetic suffix) (2), (3), (4)=2, 3, or 4 catalysts, sensors, TC, SC, CAC, etc. in series arrangement; AIR / PAIR=secondary / pulsed air injection; CAC=charge air cooler; DDI / IDI=direct / indirect diesel injection; EGR=exhaust gas recirculation; EM=engine modification; O2S / HO2S=oxygen sensor / heated O2S; OC=oxidation catalyst; TC=turbocharger; TBI / MFI / SFI / DGI=throttle body / multi port / sequential / direct gasoline fuel injection; TRANS=transmission type; TWC=three way catalyst; SC=supercharger; TWC+OC=TWC plus OC in same container; (prefix) WU=warm-up catalyst;

CERTIFICATION EMISSION LEVELS & STANDARDS: bhp=brake hp; cc=cubic centimeter; CERT=certification emission level; CID=cubic inch displacement; CO=carbon monoxide; CO2=carbon dioxide; D+HS=diurnal plus hot soak evaporative emissions; DES_STD=manufacturer designated standard; EIM=equivalent inertia mass; EVAP=evaporative family; FEL=family emission limit; g=gram; gal=gallon; g/bhp-hr=grams per brake horsepower-hour; g/km=grams per kilometer; g/kW-hr=grams per kilowatt-hour; g/m2-day=grams per square meter per day; g/test=grams per test; HC=(total) hydrocarbons; hp=horsepower; hr=hour; K=1000 miles; kg=kilograms; km=kilometer; kW=kilowatt; L=liter; m2=square meter; mi=mile; mg=milligram; NOX=oxides of nitrogen; NMHC=non methane hydrocarbons; PEVAP=permeation evaporative family; STD=emission standard; *=not applicable; (superscript) o=degree (temperature); oF=degree Fahrenheit; oC=degree Celsius.