EXECUTIVE ORDER U-U-001-0809
New Off-Road Small Spark-Ignition
Engines at or Below 19 Kilowatts

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapters 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 following engine and emission control systems produced by the manufacturer are certified for use in small off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

2017 HHNXS.6882AA 688 4-stroke, ≥ 225 cc Gasoline DURABILITY HOURS SPECIAL FEATURES & TYPICAL EQUIPMENT APPLICATION 1000 EM Walk-Behind Mower, Riding Mower, Compressor, Pressure Washer, Generator Set, Commercial Turf ENGINE CODES/MODELS (rated power in See Attachment	MODEL YEAR ENGI		NE FAMILY	DISPLACEMENT (cc)	ENGINE CLASS		FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)		
HOURS EMISSION CONTROL SYSTEMS TYPICAL EQUIPMENT APPLICATION Walk-Behind Mower, Riding Mower, Compressor, Pressure Washer, Generator Set, Commercial Turf ENGINE CODES/MODELS See Attachment	2017	KNHH	(S.6882AA	688	4-stroke, ≥ 225 cc		Gasoline		
Pressure Washer, Generator Set, Commercial Turf ENGINE CODES/MODELS See Attachment						TYPICAL EQUIPMENT APPLICATION			
CODES/MODELS See Attachment	1000			EM		, , , , , , , , , , , , , , , , , , , ,			
kilowatt, kW)	CODES/MODELS (rated power in					See Attachm	ent		

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 ECM=engine control module

The following are the hydrocarbon plus oxides of nitrogen (HC+NOx), carbon monoxide (CO), and particulate matter

The following are the hydrocarbon plus oxides of nitrogen (HC+NOx), carbon monoxide (CO), and particulate matter (PM) emission standards (Title 13, California Code of Regulations, (13 CCR) Section 2403(b)), and certification emission levels for this engine family in grams per kilowatt-hour (g/kW-hr). Engines within this engine family shall have closed crankcases in conformance with Section 1054.115(a) of the "California Exhaust Emission Standards and Test Procedures for New 2013 and Later Small Off-Road Engines," adopted October 25, 2012.

*=not applicable	HC+NOx (g/kW-hr)	CO (g/kW-hr)	PM (g/kW-hr)
STANDARD	8.0	549	*
FAMILY EMISSION LEVEL	7.7	* .	*
CERTIFICATION LEVEL	6.5	440	*

BE IT FURTHER RESOLVED: That the family emission level(s) (FELs), as applicable, is an emission limit declared by the manufacturer for use in the averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2403(e)(1) and 2407(a).

BE IT FURTHER RESOLVED: That for the listed engines, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2404 (emission control labels) and 13 CCR Sections 2405 and 2406 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Quarterly reports of engines produced in this engine family for sale in California shall be submitted to the Executive Officer no later than 45 days after the end of each calendar quarter.

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

day of October 2016.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

Engine Family: HHNXS.6882AA

E.O. Number: U- U- 001-0809

Small Off-Road Engine Model Summary Form

Attachment page 1 of 3

Units for Table: kw

Worst Case?	47. Model Designation	48. Sales Code	49. Displ (cc)	50. Bore/ Stroke	51. Ignition Timing	52. Max Power	53. Rated Speed (RPM)	54. Rated Torque	55. Forque Speed (RPM)	56. Emiss Control Sys
	H2HJ0100R B	50-State	688.0	78.0/72.0	9° BTDC	16.0	3600	48.3 N.m	2500	EM
	H2HJ0200R B	50-State	688.0	78.0/72.0	9° BTDC	16.0	3600	48.3 N.m	2500	EM
	H2HJ0300R B	50-State	688.0	78.0/72.0	9° BTDC	16.0	3600	48.3 N.m	2500	EM
	H2HK0100R B	50-State	688.0	78.0/72.0	9° BTDC	16.5	3600	48.3 N.m	2500	EM
	H2HK0200R B	50-State	688.0	78.0/72.0	9° BTDC	16.5	3600	48.3 N.m	2500	EM
	H2HK0300-B	50-State	688.0	78.0/72.0	9° BTDC	16.5	3600	48.3 N.m	2500	EM
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Engine Family: HHNXS.6882AA

E.O. Number: U-U-001-0809 Small Off-Road Engine Model Summary Form

Attachment page 2 of 3

Units for Table: kW

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	H2HH0500R B	50-State	688.0	78.0/72.0	9° BTDC	15.5	3600	48.3 N.m	2500	EM
	H2HH0600R B	50-State	688.0	78.0/72.0	9° BTDC	15.5	3600	48.3 N.m	2500	EM
	H2HH0700R B	50-State	688.0	78.0/72.0	9° BTDC	15.5	3600	48.3 N.m	2500	EM
	Н2НН0800-В	50-State	688.0	78.0/72.0	9° BTDC	15.5	3600	48.3 N.m	2500	EM
	Н2НН0900-В	50-State	688.0	78.0/72.0	9° BTDC	15.5	3600	48.3 N.m	2500	EM
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Engine Family: HHNXS.6882AA

E.O. Number: 4-4-001-0809

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Attachment page 3 of 3

Units for Table: kW

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	H2HW0300R B	50-State	688.0	78.0/72.0	9° BTDC	16.0	3600	48.3 N.m	2500	EM
X	H2HX0100R	50-State	688.0	78.0/72.0	9° BTDC	16.5	3600	48.3 N.m	2500	EM
	H2HX0200R B	50-State	688.0	78.0/72.0	9° BTDC	16.5	3600	48.3 N.m	2500	EM
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