HONDA MOTOR CO., LTD.

EXECUTIVE ORDER U-U-001-0904 New Off-Road Small Spark-Ignition Engines at or Below 19 Kilowatts

Pursuant to the authority vested in California 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.

MODEL YEAR	FNGINE FAMILY		DISPLACEMENT (cc) ENGIN		E CLASS	FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)		
2019	KHN	(S.1631BB	163	4-stroke, >80 cc - <225 cc		Gasoline		
DURABILITY HOURS 500		SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
			EM		Walk-Behind Lawnmower, Compressor, Pump, Pressure Washer, Generator Set, Tiller			
ENGINE CODES/MODELS (rated power in kilowatt, kW)					See Attachm	ent		
EGR=exhaus	t gas recirc	ulation AIR=seco	ondary air injection PAIR=p	oulsed AIR MFI=	multi port fuel inject	varm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S tlon SFI=sequential MFI TBI=throttle body fuel injection x)=in series ECM=engine control module		

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	10.0	549	* *	
FAMILY EMISSION LEVEL	10.6	*	*	
CERTIFICATION LEVEL	9.7	380	*	

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 28

day of December 2018.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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Model Year: 2019

Manufacturer: Honda Motor Co.,Ltd. KHNXS.1631BB **Engine Family:**

Issued: Revised: 7/9/2018 02/18/2019

ATTACHMENT PLOF2

E.O. Number: U-U-001-0904

Small Off-Road Engine Model Summary Form

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
X	K1SJ01B2-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	K1SJ02B2-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	K1SJ03B2-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	K1SJ04B2-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	K1SJ05B2-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	K1SJ06B2-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	K1SJ07B2-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	K1SJ08B2-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	K1SJ09B2-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
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Model Year:

2019

Manufacturer: Honda Motor Co.,Ltd. Engine Family: KHNXS.1631BB

Issued: 1/14/2019

Revised: ATTACHMENT PZOFZ E.O. Number: V-V-001-0904

Small Off-Road Engine Model Summary Form

Units for Table:

1SJ10B2-C 1SJ11B2-C 1SJ01B5-C	50-State 50-State	163 163 163	68.0/45.0 68.0/45.0 68.0/45.0	18° BTDC 18° BTDC 18° BTDC	3.6 3.6 3.6	3600 3600 3600	10.3 N.m 10.3 N.m 10.3 N.m	2500 2500 2500	EM EM
1SJ01B5-C		163							
	50-State		68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
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