

## HONDA MOTOR CO., LTD.

EXECUTIVE ORDER U-U-001-0909
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	ENGI	NE FAMILY DISPLACEMENT (cc)		E	FUEL TYPE  (CNG/LNG=compressed/liquefied natural gas l petroleum gas)				
2019	KHN	(S.1961AA	196	4-stro	ke, >80 cc - <225 cc	Gasoline			
	DURABILITY HOURS		CIAL FEATURES & N CONTROL SYSTE	MS	EMISSION CONTROL SYSTEMS				
500	500		EM		Walk-Behind Lawnmower, Compressor, Pump, Pressure Washer, Generator Set, Tiller, Other OEM Product				
ENGINE CODES/MODELS (rated power in kilowatt, kW)					See Attachm	ent			
EGR=exhaus	t gas recirc	ulation AIR=seco	ondary air injection PAIR=	pulsed All	R MFI=multi port fuel injec	warm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S tion 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	9.4	*	*
CERTIFICATION LEVEL	8.0	331	*

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

2 day of January 2019

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

Page: 9 -1

Model Year: Manufacturer:

2019

Honda Motor Co., Ltd.

Engine Family: KHNXS.1961AA

Issued:

12/07/2018

Revised: E.O. Number: V - V - COI - OIC9

PICE3

## **Small Off-Road Engine Model Summary Form**

Units for Table: kW

	<b>47</b> .	48.	49.	50.	51.	52.	<b>53</b> .	<b>54</b> .	55.	<b>56</b> .
Worst Case?	Model Designation	Sales Code	Displ (cc)	Bore/ Stroke	Ignition Timing	Max Power	Rated Speed (RPM)	Rated Torque	Torque Speed (RPM)	Emiss Control Sys
X	K1GH01B3- C	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.n	n 2500	EM
	K1GH0100-B	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.n	n 2500	EM
	K1GH0100R B	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.n	n 2500	EM
	K1GH0200-B	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.n	n 2500	EM
	K1GH03B3- C	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.n	n 2500	EM
	K1GH0400-B	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.n	n 2500	EM
	K1GH05B3- C	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.n	n 2500	EM
	K1GH06B3- C	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.n	n 2500	EM
	K1GH0300-B	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.n	n 2500	EM

Model Year:

2019

Manufacturer: Honda Motor Co., Ltd.

Engine Family:

KHNXS.1961AA

Issued:

12/07/2018

Revised:

E.O. Number: U-V-001-0909

ATTACHMENT P20F3

## Small Off-Road Engine Model Summary Form

Units for Table:

Worst Case?	Decignation	48. Sales Code	49. Displ (cc)	50. Bore/ Stroke	51. Ignition Timing	52. Max Power	53. Rated Speed (RPM)	54. Rated Torque	55. Torque Speed (RPM)	56. Emiss Control Sys
	K1GH0700-B	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.n	n 2500	EM
	K1GH0800-B	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.n	n 2500	EM
	K1GH0900-B	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.n	n 2500	EM
	K1GH1000R B	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.r	n 2500	EM
	K1GH11F2- C	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.n	n 2500	EM
	K1GH12F1- C	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.n	n 2500	EM
	K1GH13B3- C	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.n	n 2500	EM
	K1GH1400-B	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.n	n 2500	EM
	K1GH15B3- C	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.n	n 2500	ЕМ
	K1GH1500-B	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.n	n 2500	EM

Model Year: Manufacturer:

Engine Family:

2019

Honda Motor Co., Ltd.

KHNXS.1961AA

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12/08/2018

Page: 9 -3

## Small Off-Road Engine Model Summary Form

Units for Table:

Wor	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
	K1GH16B3- C	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.m	2500	EM
	K1GH1700R B	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.m	2500	EM
	K1GH18B3- C	50-State	196.1	68.0/54.0	20° BTDC	4.3	3600	12.4 N.m	2500	EM
	K1GH19B3- C	50-State	196.1	68.0/54.0	20° BTDC	4.6	3600	12.4 N.m	2500	EM
	K1GH20B3-	50-State	196.1	68.0/54.0	20° BTDC	4.1	3600	12.0 N.m	2500	EM