**CERTIFICATION LEVEL** 

## HONDA MOTOR CO., LTD.

EXECUTIVE ORDER U-U-001-0941-1 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-19-095;

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	ENGII	NE FAMILY	DISPLACEMENT (cc)	ENGINE CLASS		FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)			
2020	LHN	(S.1631BB	163	4-stroke, >80 cc - <225 cc		Gasoline			
DURABILITY HOURS		1	PECIAL FEATURES SION CONTROL SYS	-	TYPICAL EQUIPMENT APPLICATION				
500		EM			Compressor, Pump, Pressure Washer, Generator Set, Tiller, Other				
ENGINE CODES/MODELS (rated power in kilowatt, kW)		See Attachment							
EGR≃exhaus	t gas recirc	ulation AIR=seco	ondary air injection PAIR=	pulsed AIR 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.

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 \*=not applicable
 HC+NOx (g/kW-hr)
 CO (g/kW-hr)
 PM (g/kW-hr)

 STANDARD
 10.0
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 \*

 FAMILY EMISSION LEVEL
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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).

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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.

This Executive Order hereby supersedes Executive Order U-U-001-0941 dated December 24, 2019.

Executed at El Monte, California on this \_\_\_\_\_\_ day of March 2020.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Model Year:

2020

Manufacturer:

Honda Motor Co.,Ltd.

Engine Family: LHNXS.1631BB Issued:

05/22/2019

02/19/2020

Revised: E.O. Number: U-U-001-0941 -/

## 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 To Torque	55. orque Speed (RPM)	56. Emiss Control Sys
	1SJ01A	50-State	163	68/45	18° BTDC	3.6	3600	10.3 N.m	2500	EM
1	1SJ02A	50-State	163	68/45	18° BTDC	3.6	3600	10.3 N.m	2500	EM
X	1SJ03A	50-State	163	68/45	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	1SJ04A	50-State	163	68/45	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	1SJ05A	50-State	163	68/45	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	1SJ06A	50-State	163	68/45	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	1SJ07A	50-State	163	68/45	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	1SJ08A	50-State	163	68/45	18° BTDC	3.6	3600	10.3 N.m	2500	ЕМ
	1SJ09R	50-State	163	68/45	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	1SJ09A	50-State	163	68/45	18° BTDC	3.6	3600	10.3 N.m	2500	ЕМ
	1SJ10A	50-State	163	68/45	18° BTDC	3.6	3600	10.3 N.m	2500	EM

ATTACHMENT PZOFZ

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Model Year:

2020

Manufacturer: Honda Motor Co.,Ltd.

Engine Family: LHNXS.1631BB

Issued:

Revised:

05/22/2019

02/19/2020

E.O. Number: U-U-001-0941 -- j

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

Units for Table:

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 1 Torque	55. Forque Speed (RPM)	56. Emiss Control Sys
	1SJ11A	50-State	163	68/45	18° BTDC	3.6	3600	10.3 N.m	2500	EM
4	1SJ12A	50-State	163	68/45	18° BTDC	3.6	3600	10.3 N.m	2500	EM
e .	1SJ13A	50-State	163	68/45	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	1SJ14A	50-State	163	68/45	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	1SJ15A	50-State	163	68/45	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	1SJ16A	50-State	163	68/45	18° BTDC	3.6	3600	10.3 N.m	25 <b>0</b> 0	EM
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