EXECUTIVE ORDER U-U-001-0175 New Off-Road Small Spark-Ignition Engines Below 25 Horsepower

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-45-9;

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	E	ENGINE FAMILY	DISPLACEMENT (cc)	ENGINE CLASS		FUEL TYPE	
2002	2	HNXS.1631AK	163		oke, 66 - 224 cc orizontal shaft	Gasoline	
DURABILI HOURS			CIAL FEATURES & N CONTROL SYSTEMS	S	TYPICAL EQUIPMENT APPLICATION		
500		Eng	gine Modification		Walk-behind lawnmower, compressor, pump, pressure washer, generator set, tiller		
ENGINE MODELS (rated power in horsepower, hp)  See Attachm					ent (2 pages)		

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 brake horsepower-hour (g/bhp-hr). Engines within this engine family shall have closed crankcases in conformance with Section 18.(h) of the "California Exhaust Emission Standards and Test Procedures for 1995 and Later Small Off-Road Engines," last amended March 23, 1999.

(g/bhp-hr)	HC+NOx	CO	PM
STANDARD	12.0	410	N/A
FAMILY EMISSION LEVEL	N/A	N/A	N/A
CERTIFICATION LEVEL	7.7	228	N/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 28th day of June 2001

R. B. Summerfield, Chief

Mobile Source Operations Division

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Model Year: 2002

Manufacturer:

Honda Motor Co.,Ltd.

Issued: Revised:

6/18/2001

Engine Family: 2HNXS.1631AK

E.O. Number: U-U-1-175

## Small Off-Road Engine Model Summary Form

Units for Table: hp

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	2163Hj		50-State	163.4	68.0/45.0	25° BTDC	5.5 hp	3600	10.8 N-m	. 2500	EM
	2163H2		50-State	163.4	68.0/45.0	25° BTDC	5.5 hp	3600	10.8 N-m	2500	EM
	2163H3		50-State	163.4	68.0/45.0	25° BTDC	5.5 hp	3600	10.8 N-m	2500	EM
	2163H4	•	50-State	163.4	68.0/45.0	25° BTDC	5.5 hp	3600	10.8 N-m	2500	EM
	2163H5		50-State	163.4	68.0/45.0	25° BTDC	5.5 hp	3600	10.8 N-m	2500	EM
	2163H6	į	50-State	163.4	68.0/45.0	25° BTDC	5.5 <b>hp</b>	3600	10.8 N-m	2500	EM
	2163H7		50-State	163.4	68.0/45.0	25° BTDC	5.5 <b>hp</b>	3600	10.8 N-m	2500	. EM
	2163H8		50-State	163.4	68.0/45.0	25° BTDC	5.5 <b>hp</b>	3600	10.8 N-m	2500	EM
	2163H9		50-State	163.4	68.0/45.0	25° BTDC	5.5 hp	3600	10.8 N-m	2500	EM
	2163H 0		50-State	163.4	68.0/45.0	25° BTDC	5.5 hp	3600	10.8 N-m	2500	EM
	2163H 1		50-State	163.4	68.0/45.0	25° BTDC	5.5 hp	3600	10.8 N-m	2500	EM

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Model Year: 2002

Manufacturer: Honda Motor Co.,Ltd. Engine Family: 2HNXS.1631AK

Issued: 4/4/2001 Revised: 4/6/2001

E.O. Number: U-U-1-175

## Small Off-Road Engine Model Summary Form

Units for Table: hp

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. Torque Speed (RPM)	56. Emiss Control S	ys
,	2163H12	50-State	163.4	68.0/45.0	25° BTDC	5.5 hp	3600	10.8 N-m	2500	EM	
• •	2163H13	50-State	163.4	68.0/45.0	25° BTDC	5.5 hp		10.8 N-m	2500	EM	
	2163H14	50-State	163.4	68.0/45.0	25° BTDC	5.5 hp	3600	10.8 N-m	2500	EM	
	2163H15	50-State	163.4	68.0/45.0	25° BTDC	5.5 hp	3600	10.8 N-m	2500	EM	
	2163H16	50-State	163.4	68.0/45.0	25° BTDC	5.5 hp	3600	10.8 N-m	2500	EM	بهند.
	2163H17	50-State	163.4	68.0/45.0	25° BTDC	5.5 hp	3600	10.8 N-m	2500	EM	
	2163H18	50-State	163.4	68.0/45.0	25° BTDC	5.5 hp	3600	10.8 N-m	2500	EM	
	2163H19	50-State	163.4	68.0/45.0	25° BTDC	5.5 hp	3600	10.8 N-m	2500	EM	
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