## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER U-U-1-174 Relating to Certification of New Small Off-Road Engines

## HONDA MOTOR CO., LTD.

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 the Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the engine and exhaust emission control systems produced by the manufacturer for use in small off-road equipment are certified as described below:

Model Year: 2002

Fuel Type: Gasoline

Engine Class: Spark-ignition, 4-stroke, greater than 65 cc but less than 225 cc

Typical Equipment Usage: Walk-behind lawnmower

Engine Family	Displacement (Cubic Cent.)	Durability Period (Hours)	Emission Control System and Special Features			
2HNXS.1631AL	163	250	Engine Modification			

Engine models are listed on the attachment. Production engines shall be in all material respects the same as those for which certification is granted.

The exhaust emission standards, and certification emission values, in grams per brake horsepower-hour for this engine family are:

	Hydrocarbons plus Oxides of Nitrogen	Carbon <u>Monoxide</u>	Particulate <u>Matter</u>
Standards:	12.0	410	n/a
Family Emission Limits:	n/a	n/a	n/a
Certification:	9.0	206	n/a

BE IT FURTHER RESOLVED: That the listed engine models also comply with the "Emission Control Labels and Consumer Information - 1995 and Later Small Off-Road Engines" (Title 13, California Code of Regulations, Section 2404) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed engines shall have closed crankcases as stipulated in Part I, Section 18(h) of the "California Exhaust Emission Standards and Test Procedures for 1995 and Later Small Off-Road Engines."

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Code of Regulations, Sections 2405 and 2406). The Executive Officer hereby approves these materials for use in complying with these sections for this engine family.

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

Executed at El Monte, California this Z<sup>ND</sup> day of May 2001.

R. B. Summerfield, Chief

Mobile Source Operations Division

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Attachment

Model Year: 2002

Manufacturer:

Honda Motor Co.,Ltd.

Issued:

Revised: 3/16/2001

Engine Family: 2HNXS.1631AL E.O. Number: U-U-I-I7 $\psi$ 

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

Units for Table: kw

	47.	48.	49.	50.	51.	52.	53.	54.	55.	56.
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	2163V1	50-State	163.4	68.0/45. <b>0</b>	20° BTDC	4.0 kW	3600	10.8 N-m	2500	EM
	2163V2	50-State	163.4	68.0/45.0	20° BTDC	4.0 kW	3600	10.8 N-m	1 2500	EM
	2163V3	50-State	163.4	68.0/45.0	20° BTDC	4.0 kW	3600	10.8 N-m	2500	ΕM