

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-02-003;

**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	ENGINE FAMILY	DISPLACEMENT (cc)	ENGINE CLASS	FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)
2012	CHNXS.1871AA	161, 187	4-stroke, >80 cc - <225 cc	Gasoline
<b>DURABILITY HOURS</b>		<b>SPECIAL FEATURES &amp; EMISSION CONTROL SYSTEMS</b>		
250		EM Walk-Behind Lawnmower, Compressor, Pump, Pressure Washer, Generator Set, Non-Backpack Blower, Tiller, Edger, Other OEM Product		
<b>ENGINE CODES/MODELS</b> (rated power in kilowatt, kW)		See Attachment		
<small>ABBREVIATIONS: EM=engine modification TWC/OC=three-way/oxidizing catalyst WUTWC/WUOC=warm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S                      EGR=exhaust gas recirculation AIR=secondary air injection PAIR=pulsed AIR MFI=multi port fuel injection SFI=sequential MFI TBI=throttle body fuel injection                      DFI=direct fuel injection TC/SC=turbo/super charger CAC=charge air cooler 2(prefix)=parallel 2(suffix)=in series ECM=engine control module</small>				

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 90.109 of the "California Exhaust Emission Standards and Test Procedures for 2005 and Later Small Off-Road Engines," adopted July 26, 2004.

*=not applicable	HC+NOx (g/kW-hr)	CO (g/kW-hr)	PM (g/kW-hr)
STANDARD	10.0	549	*
FAMILY EMISSION LEVEL	10.5	*	*
CERTIFICATION LEVEL	9.2	346	*

**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 17<sup>th</sup> day of October 2011.

  
 for Annette Hebert, Chief  
 Mobile Source Operations Division



Model Year: 2012  
 Manufacturer: Honda Motor Co., Ltd.  
 Engine Family: CHNXS.1871AA

Issued: 6/23/2010  
 Revised:  
 E.O. Number:

**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. Torque Speed (RPM)	56. Emiss Control Sys
	C1HV01H1-C	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	C1HV02H1-C	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	C1HV03H1-C	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	C1HV04H1-C	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	C1HV05J2-C	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	C1HV06H1-C	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	C1HV07H3-C	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	C1HV08H3-C	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	C1HV09H2-C	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	C1HV10J2-C	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM

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	C1HV11H2-C	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	C1HV12H1-C	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	C1HV13H1-C	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM

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	C1HJ01C1-C	50-State	187.0	69.0/50.0	20° BTDC	3.9	3600	11.2 N.m	2500	EM
	C1HJ01D1-C	50-State	187.0	69.0/50.0	20° BTDC	3.9	3600	11.2 N.m	2500	EM
	C1HJ02C1-C	50-State	187.0	69.0/50.0	20° BTDC	3.9	3600	11.2 N.m	2500	EM
	C1HJ0300-B	50-State	187.0	69.0/50.0	20° BTDC	3.9	3600	11.2 N.m	2500	EM
	C1HW01H1-C	50-State	187.0	69.0/50.0	20° BTDC	3.8	3600	11.3 N.m	2500	EM
	C1HW02H1-C	50-State	187.0	69.0/50.0	20° BTDC	3.8	3600	11.3 N.m	2500	EM
	C1HW03H1-C	50-State	187.0	69.0/50.0	20° BTDC	3.8	3600	11.3 N.m	2500	EM
	C1HW04H3-C	50-State	187.0	69.0/50.0	20° BTDC	3.8	3600	11.3 N.m	2500	EM
	C1HW05H1-C	50-State	187.0	69.0/50.0	20° BTDC	3.8	3600	11.3 N.m	2500	EM
	C1HW05H2-C	50-State	187.0	69.0/50.0	20° BTDC	3.8	3600	11.3 N.m	2500	EM

