

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.1631AA	163	4-stroke, >80 cc - <225 cc	Gasoline
DURABILITY HOURS	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION	
500	EM		Walk-Behind Lawnmower, Compressor, Pump, Pressure Washer, Generator Set, Tiller, Other OEM Product	
ENGINE CODES/MODELS (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	11.1	*	*
CERTIFICATION LEVEL	9.4	321	*

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 23rd day of November 2011.

Annette Hebert
 Annette Hebert, Chief
 Mobile Source Operations Division

Model Year: 2012
 Manufacturer: Honda Motor Co.,Ltd.
 Engine Family: CHNXS.1631AA

Attachment 1 of 3

Issued: 8/6/2009
 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
	C1FH18B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH19B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH20B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH2200-B	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH2200R B	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH2300-B	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH2300R B	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH2400-B	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH27G1-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH28L1-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM

Model Year: 2012
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: CHNXS.1631AA

Issued: 8/6/2009
 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
	C1FH10B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH12B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH13B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH14B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH1400-B	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH15B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH1500-B	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH1500R B	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH16B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH17B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM

Model Year: 2012
 Manufacturer: Honda Motor Co.,Ltd.
 Engine Family: CHNXS.1631AA

Issued: 7/6/2011
 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
X	C1FH01B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH05B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH06B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH07B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH08B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH08B2R-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH0800-D	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH09B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH0900-B	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	C1FH0900R-B	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM