

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)
2009	9HNXS.270A5A	243, 270	4-stroke, ≥ 225 cc	Gasoline
DURABILITY HOURS	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION	
500	EM		Walk-Behind Lawnmower, Riding Mower, Compressor, Pump, Generator Set, Tiller	
ENGINE CODES/MODELS (rated power in kilowatt, kW)	SEE ATTACHMENT			
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				

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	8.0	549	*
FAMILY EMISSION LEVEL	11.9	*	*
CERTIFICATION LEVEL	8.0	354	*

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 22nd day of December 2008.


Annette Hebert, Chief
Mobile Source Operations Division

Model Year: 2009
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: 9HNXS 270ASA

Issued: 6/30/2008
 Revised:
 E.O. Number: U-U-001-0420

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
	92AH01A1-A	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	92AH02A1-A	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
X	92AH0300-B	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	92AH04A1-A	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	92AH05A1-A	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	92AH07A1-A	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	92AH08A1-A	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	92AH09A1-A	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	92AH10A1-A	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM

Model Year: 2009
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: 9HNXS.270A5A

Issued: 6/30/2008
 Revised:
 E.O. Number: U-4-001-0420

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
	92AH11A1-A	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	92AH12A1-A	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	92AH13A1-A	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	92AH14A1-A	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	92AH16F1-A	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	92AH1700R B	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	92AH1800R B	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	92AH1900R B	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	92AH2000R B	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM

Model Year: 2008
Manufacturer: Honda Motor Co., Ltd.
Engine Family: 9HNXS.270A5A

Attachment 3 of 4

Issued: 6/30/2008
Revised:
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Page: 9 - 1

Small Off-Road Engine Model Summary Form

Units for Table: kw

47. Worst Case?	48. Model Designation	49. Sales Code	50. Displ (cc)	51. Bore/ Stroke	52. Ignition Timing	53. 52. Max Power	54. 53. Rated Speed (RPM)	55. 54. Rated Torque	56. 55. Torque Speed (RPM)	57. 56. Emiss Control Sys
	92AJ0100RB	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	92AJ0200RB	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	92AJ0300RB	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	92AJ0400RB	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	92AJ05A1-A	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	92AJ06A1-A	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	92AJ07A1-A	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	92AJ08A1-A	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	92AJ09A1-A	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	92AJ1000RB	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM

Model Year: 2009
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: 9HNXS.270A5A

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	92AJ1100-B	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	92AJ1200-B	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	92AJ1300-B	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	92AJ14A1-A	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	92AJ15A1-A	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	92AJ16A1-A	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	92AJ17A1-A	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	92AJ1800RB	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	92AJ19A1-A	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	92AJ20A1-A	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM