

HONDA MOTOR CO., LTD.

EXECUTIVE ORDER U-U-001-0407 New Off-Road Small Spark-Ignition Engines at or Below 19 Kilowatts

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	ENGI	NE FAMILY	DISPLACEMENT (cc)	ENGINE CLASS	FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=lique petroleum gas)				
2009	9HN	KS.187A1A	161, 187	4-stroke, >80 cc - <225 cc	Gasoline				
DURABILITY HOURS				SPECIAL FEATURE EMISSION CONTROL					
125	i		Walk-Behind Lawnmower, Compressor, Pump, Pressure Washer, Generator Set, Non-Backpack Blower, Tiller, Edger, Other OEM Produc						
ENGINE CODES/MODELS (rated power in kilowatt, kW)				See Attachm	ent				

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	11.2	*	*
CERTIFICATION LEVEL	9.5	369	*

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 ____/3 the day of November 2008.

Annette Hebert, Chief

Mobile Source Operations Division

Attachment

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Model Year: 2009

Manufacturer: Honda Motor Co., Ltd. Engine Family: 9HNXS.187A1A

Issued:

6/30/2008

10/8/2008 Revised:

E.O. Number: U-U-001-0407

Small Off-Road Engine Model Summary Form

91HH01D1-A 50-State 160.8 64.0/50.0 20° BTDC 3.4 3600 9.4 N.m 2500 E 91HH0100-A 50-State 160.8 64.0/50.0 20° BTDC 3.4 3600 9.4 N.m 2500 E 91HH02C1-A 50-State 160.8 64.0/50.0 20° BTDC 3.4 3600 9.4 N.m 2500 E	Worst Case?		48. Sales Code	49. Displ (cc)	50. Bore/ Stroke	51. Ignition Timing	52. Max Power	53. Rated Speed (RPM)	54. Rated Torque	55. orque Speed (RPM)	56. Emiss Control Sys
91HH0100-A 50-State 160.8 64.0/50.0 20° BTDC 3.4 3600 9.4 N.m 2500 E 91HH02C1-A 50-State 160.8 64.0/50.0 20° BTDC 3.4 3600 9.4 N.m 2500 E	Х	91HH01C1-A	50-State	160.8	64.0/50.0	20° BTDC	3.4	3600	9.4 N.m	2500	EM
91HH02C1-A 50-State 160.8 64.0/50.0 20° BTDC 3.4 3600 9.4 N.m 2500 E		91HH01D1-A	50-State	160.8	64.0/50.0	20° BTDC	3.4	3600	9.4 N.m	2500	EM
	: ·	91HH0100-A	50-State	160.8	64.0/50.0	20° BTDC	3.4	3600	9.4 N.m	2500	EM
91HH03C1-A 50-State 160.8 64.0/50.0 20° BTDC 3.4 3600 9.4 N.m 2500 E		91HH02C1-A	50-State	160.8	64.0/50.0	20° BTDC	3.4	3600	9.4 N.m	2500	EM
		91HH03C1-A	50-State	160.8	64.0/50.0	20° BTDC	3.4	3600	9.4 N.m	2500	EM
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2009 Model Year:

Manufacturer: Honda Motor Co., Ltd.

Engine Family: 9HNXS.187A1A

6/30/2008 Issued: Revised: 10/8/2008

E.O. Number: U-U-001-0407

Small Off-Road Engine Model Summary Form

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
	91HV01H1-A	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
:	91HV02H1-A	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	91HV02H2-A	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	91HV03H1-A	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
: : :	91HV04H1-A	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	91HV05H1-A	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	91HV06H1-A	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	91HV07J2-A	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM :

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Manufacturer:

Honda Motor Co., Ltd.

Engine Family: 9HNXS.187A1A

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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 To Torque	55. orque Speed (RPM)	56. Emiss Control Sys
	91HV08H2-A	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	91HV09H1-A	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	91HV10H1-A	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	91HV11H1-A	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	91HV12H1-A	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N .m	2500	EM
	91HV13H2-A	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
	91HV14H2-A	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM
:	91HV15J2-A	50-State	160.8	64.0/50.0	20° BTDC	3.3	3600	9.4 N.m	2500	EM

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Model Year: Manufacturer:

2009

Honda Motor Co.; Ltd.

Engine Family: 9HNXS.187A1A

Issued: Revised: 6/30/2008 10/8/2008

E.O. Number:

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Small Off-Road Engine Model Summary Form

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 T Torque	55. orque Speed (RPM)	56. Emiss Control Sys
	91HJ01C1-A	50-State	187.0	69.0/50.0	20° BTDC	3.9	3600	11.2 N.m	2500	EM
:	91HJ01D1-A	50-State	187.0	69.0/50.0	20° BTDC	3.9	3600	11.2 N.m	2500	EM
:	91HJ02C1-A	50-State	187.0	69.0/50.0	20° BTDC	3.9	3600	11.2 N.m	2500	EM
:	91HW01H2- A	50-State	187.0	69.0/50.0	20° BTDC	3.8	3600	11.3 N.m	2500	EM
	91HW02H2- A	50-State	187.0	69.0/50.0	20° BTDC	3.8	3600	11.3 N.m	2500	EM
	91HW03H2- A	50-State	187.0	69.0/50.0	20° BTDC	3.8	3600	11.3 N.m	2500	EM
	91HW04H2- A	50-State	187.0	69.0/50.0	20° BTDC	3.8	3600	11.3 N.m	2500	EM
:	91HW05H2- A	50-State	187.0	69.0/50.0	20° BTDC	3.8	3600	11.3 N.m	2500	EM
	91HW06H2- A	50-State	187.0	69.0/50.0	20° BTDC	3.8	3600	11.3 N.m	2500	EM
	91HW07H2- A	50-State	187.0	69.0/50.0	20° BTDC	3.8	3600	11.3 N.m	2500	EM