



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)				
2011	BHN	(S.6882AA	688	4-stroke, ≥	225 cc	Gasoline				
DURAB			SPECIAL FEATURES		TYPICAL EQUIPMENT APPLICATION					
1000			ЕМ	*	•	alk-Behind Mower, Riding Mower, Compressor, ssure Washer, Generator Set, Commercial Turf				
ENGINE CODES/MODELS (rated power in kilowatt, kW)					See Attachm	nent				
EGR=exhaus	t gas recirc	ulation AIR=seco	ondary air injection PAIR=pu	ulsed AIR MFI≃mu	Iti port fuel injec	warm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S ction SFI=sequential MFI TBI=throttle body fuel injection ix)=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	8.1	*	*	
CERTIFICATION LEVEL	6.5	440	*	

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 ______ day of December 2010.

Annette Hebert, Chief

Mobile Source Operations Division

Attachment 1044

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Model Year:

2011

Engine Family: BHNXS.6882AA

Manufacturer: Honda Motor Co., Ltd.

7/22/2010

E.O. Number: U-U-001-0517

Units for Table: kw

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 To Torque	55. rque Speed (RPM)	56. Emiss Control Sys
	B2HJ0100R D	50-State	688.0	78.0/72.0	9° BTDC	15.7	3600	48.2 N.m	2000	ЕМ
	B2HJ0200R D	50-State	688.0	78.0/72.0	9° BTDC	15.7	3600	48.2 N.m	2000	EM
	B2HJ0300R D	50-State	688.0	78.0/72.0	9° BTDC	15.7	3600	48.3 N.m	2500	EM
	B2HK0100-D	50-State	688.0	78.0/72.0	9° BTDC	16.6	3600	48.3 N.m	2500	EM
	B2HK0200R D	50-State	688.0	78.0/72.0	9° BTDC	16.6	3600	48.3 N.m	2500	EM
	B2HK0300R D	50-State	688.0	78.0/72.0	9° BTDC	16.6	3600	48.3 N.m	2500	EM
	B2HK0400-D	50-State	688.0	78.0/72.0	9° BTDC	16.6	3600	48.3 N.m	2500	EM

Attachment 2 of 4 Issued:

Page: 9 -3 7/22/2010

Model Year: 2011

Manufacturer: Honda Motor Co., Ltd.

Engine Family: BHNXS.6882AA

E.O. Number: U-U-001-0517

Revised:

Small Off-Road Engine Model Summary Form

Units for Table: kW

Worst	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. I Emiss Control Sys
	B2HH0100-D	50-State	688.0	78.0/72.0	9° BTDC	15.1	3600	48.2 N.m	2000	EM
	B2HH0100R D	50-State	688.0	78.0/72.0	9° BTDC	15.1	3600	48.2 N.m	2000	EM
	B2HH0200-D	50-State	688.0	78.0/72.0	9° BTDC	15. 1	3600	48.2 N.m	2000	EM
	B2HH0300R D	50-State	688.0	78.0/72.0	9° BTDC	15.1	3600	48.2 N.m	2000	ΕM
	B2HH0400R D	50-State	688.0	78.0/72.0	9° BTDC	15.1	3600	48.2 N.m	2000	EM
	B2HH0500-D	50-State	688.0	78.0/72.0	9° BTDC	15. 1	3600	48.2 N.m	2000	EM
	B2HH0600R D	50-State	688.0	78.0/72.0	9° BTDC	15.1	3600	48.2 N.m	2000	EM
	B2HH0700R D	50-State	688.0	78.0/72.0	9° BTDC	15.1	3600	48.2 N.m	2000	EM
	B2HH0800R D	50-State	688.0	78.0/72.0	9° BTDC	15.1	3600	48.2 N.m	2000	EM
	B2HH0900-D	50-State	688.0	78.0/72.0	9° BTDC	15.1	3600	48.2 N.m	2000	EM

30+4 Attachment

Issued: 7/22/2010 Page: 9 - 5

Model Year: Manufacturer:

2011

Engine Family: BHNXS.6882AA

Honda Motor Co., Ltd.

Revised:

E.O. Number: U-4-001-0517

Small Off-Road Engine Model Summary Form

Units for Table: kW

47. 48. 49. 50. 52. 53. 54. 55. 56. Model Sales Displ Bore/ Ignition Max Rated Speed Rated Torque Speed **Emiss** Worst Designation Code (cc) Stroke Timing Power (RPM) Torque (RPM) Control Sys Case? B2HH1000R 50-State 688.0 78.0/72.0 9° BTDC 15.1 3600 48.2 N.m 2000 EM D

Attachment 4 of 4

Model Year: 2011

Manufacturer: Honda Motor Co., Ltd.

issued:

7/22/2010

Revised: Engine Family: BHNXS.6882AA

E.O. Number: U-U-001-0517

Small Off-Road Engine Model Summary Form

Units for Table: kW

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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 Tor Torque	55. rque Speed (RPM)	56. Emiss Control Sys
	B2HV0100R D	50-State	688.0	78.0/72.0	9° BTDC	14.6	3600	45.1 N.m	2500	EM
	B2HV0200R D	50-State	688.0	78.0/72.0	9° BTDC	14.6	3600	45.1 N.m	2500	EM
	B2HW0100R D	50-State	688.0	78.0/72.0	9° BTDC	15.8	3600	49.7 N.m	2500	EM
	B2HW0200R D	50-State	688.0	78.0/72.0	9° BTDC	15.8	3600	49.7 N.m	2500	EM
X	B2HX0100R D	50-State	688.0	78.0/72.0	9° BTDC	16.5	3600	48.5 N.m	2500	EM
	B2HX0200R D	50-State	688.0	78.0/72.0	9° BTDC	16.5	3600	48.5 N.m	2500	EM
	B2HX0300R D	50-State	688.0	78.0/72.0	9° BTDC	16.5	3600	48.5 N.m	2500	EM