

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	BHNXS.2702AA	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			
<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	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).

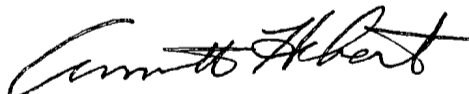
BE IT FURTHER RESOLVED: That for the listed engines, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2404 (emission control labels) and 13 CCR Sections 2405 and 2406 (emission control 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 3 day of December 2010.


 Annette Hebert, Chief
 Mobile Source Operations Division

Model Year: 2011
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: BHNXS.2702AA

Issued: 7/22/2010
 Revised:
 E.O. Number: U-U-001-0497

Small Off-Road Engine Model Summary Form

Units for Table

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
B2AH01A1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
B2AH01A2-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
B2AH0300-D	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
B2AH04A1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
B2AH05A1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
B2AH07A1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
B2AH08A1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
B2AH09A1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
B2AH10A1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM

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B2AH11A1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
B2AH12A1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
B2AH13A1-A	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
B2AH14A1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
B2AH16F1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
B2AH1700R D	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
B2AH1800R D	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
B2AH1900R D	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
B2AH2000R D	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM

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Units for Table: kW

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B2AJ0100R D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ0200R D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ0300R D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ0400R D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ05A2-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ06A2-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ07A2-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ08A2-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ09A2-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ1000-D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM

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Units for Table:

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B2AJ1100-D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ1200-D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ1300-D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ14A2-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ15A2-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ16A2-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ17A2-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ1800R D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ19A2-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ20A2-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM

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B2AJ21A2-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ22A2-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ23A2-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ2300-D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ24A2-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ2400-D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ25A2-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ2500-D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ26A2R C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
B2AJ2700R D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM

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B2AJ28A2-C	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.m	2500	EM
B2AJ29A2-C	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.m	2500	EM
B2AJ2900R D	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.m	2500	EM
B2AJ30A2-C	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.m	2500	EM
B2AJ31A2-C	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.m	2500	EM
B2AJ32G1-C	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.m	2500	EM