



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.3892AA	338, 389	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	9.8	*	*
CERTIFICATION LEVEL	6.4	364	*

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.3892AA

Issued: 7/22/2010

Revised:

E.O. Number:

0-0-001-0498

Small Off-Road Engine Model Summary Form

Units for Table: N/A

Model Class	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
	B2DH01B1-C	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	B2DH02B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	B2DH03B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	B2DH04B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	B2DH05B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	B2DH06B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	B2DH0700-D	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	B2DH08B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
X	B2DH09B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	B2DH10B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM

Model Year: 2011
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: BHNXS.3892AA

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Small Off-Road Engine Model Summary Form

Units for Torque

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
B2DH11B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH12B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH13B1-C	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH14B1-C	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH15B1-C	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH16B1-C	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH17B1-C	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH18B1-C	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH19B1-C	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH2000-D	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM

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Small Off-Road Engine Model Summary Form

Link to Tables: [www](#)

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 Torque	55. Torque Speed RPM	56. Emiss Control Sys
B2DH2100-D	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH2200-D	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH2300-D	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH24B1- C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH25B1- C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH26B1- C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH27B1- C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH28B1- C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH29B1- C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH30B1- C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM

Model Year: 2011
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: BHNXS.3892AA

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Small Off-Road Engine Model Summary Form

Units for Tables: kW

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
B2DH32F2-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH3300R D	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH3400R D	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH3500R D	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH3600R D	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH38E1- C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
B2DH39B1- C	50-State	389	88.0/64.0	10° BTDC	8.0	3600	26.4 N.m	2500	EM
B2DH3900-D	50-State	389	88.0/64.0	10° BTDC	8.0	3600	26.4 N.m	2500	EM

Model Year: 2011
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: BHNXS.3892AA

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Small Off-Road Engine Model Summary Form

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
B2DJ01B2-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
B2DJ02B2-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
B2DJ04F3-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
B2DJ0500-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
B2DJ0600R D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
B2DJ0700R D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
B2DJ0800R D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
B2DJ0900R D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
B2DJ1000R D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM

Model Year: 2011
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: BHNXS.3892AA

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Small Off-Road Engine Model Summary Form

Units for Table: kW

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
B2DJ1100-D	50-State	389.3	88.0/64.0	25° BFDC	8.2	3600	25.1 N.m	2500	EM
B2DJ1200-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
B2DJ1300-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
B2DJ1400-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
B2DJ1500-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
B2DJ16B2-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
B2DJ1600-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
B2DJ17B2-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
B2DJ18B2-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
B2DJ19B2-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
B2DJ20B2-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM

Model Year: 2011
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: BHNXS.3892AA

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Small Off-Road Engine Model Summary Form

Units for Table

Model 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
	B2DJ21B2-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	B2DJ2100-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	B2DJ2200-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	B2DJ23B2-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	B2DJ24B2-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	B2DJ2500R D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	B2DJ26B2-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	B2DJ2700R D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	B2DJ2800-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	B2DJ2900R D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	B2DJ3000-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM

Model Year: 2011
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: BHNXS.3892AA

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Small Off-Road Engine Model Summary Form

Issue Date: 8/17/09

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
B2DJ33E2-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
B2DJ34B2-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
B2DJ35B2-C	50-State	389	88.0/64.0	10° BTDC	8.7	3600	25.1 N.m	2500	EM
B2DJ3500-D	50-State	389	88.0/64.0	10° BTDC	8.7	3600	25.1 N.m	2500	EM
B2DJ3500-B	50-State	389	88.0/64.0	10° BTDC	8.7	3600	25.1 N.m	2500	EM
B2DJ3500R B	50-State	389	88.0/64.0	10° BTDC	8.7	3600	25.1 N.m	2500	EM
B2DJ36B2-C	50-State	389	88.0/64.0	10° BTDC	8.7	3600	25.1 N.m	2500	EM
B2DJ37G2-C	50-State	389	88.0/64.0	10° BTDC	8.7	3600	25.1 N.m	2500	EM