

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)
2010	AHNXS.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			
<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	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 7th day of December 2009.

M. Hebert FOR AGM

Annette Hebert, Chief
 Mobile Source Operations Division

Model Year: 2010
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: AHNXS.3892AA

Issued: 8/17/2009
 Revised:
 E.O. Number: 4-4-001-0463

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
	A2DH01B1-C	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH02B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH03B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH04B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH05B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH06B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH0700-D	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH08B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
X	A2DH09B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH10B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM

Model Year: 2010
Manufacturer: Honda Motor Co., Ltd.
Engine Family: AHNXS.3892AA

Attachment 2 of 8

Issued: 8/17/2009
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	A2DH11B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH12B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH13B1-C	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH14B1-C	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH15B1-C	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH16B1-C	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH17B1-C	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH18B1-C	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH19B1-C	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH2000-D	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM

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	A2DH2100-D	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH2200-D	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH2300-D	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH24B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH25B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH26B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH27B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH28B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH29B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH30B1-C	50-State	338.0	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM

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	A2DH32F2-C	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH3300R D	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH3400R D	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH3500R D	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH3600R D	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM
	A2DH38E1- C	50-State	389.3	82.0/64.0	25° BTDC	7.1	3600	22.1 N.m	2500	EM

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	A2DJ01B1-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ02B1-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ04F3-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ0500-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ0600R D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ0700R D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ0800R D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ0900R D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ1000R D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM

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	A2DJ1100-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ1200-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ1300-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ1400-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ1500-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ16B1-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ1600-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ17B1-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ18B1-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ19B1-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ20B1-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM

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	A2DJ21B1-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ2100-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ2200-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ23B1-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ24B1-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ2500R D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ26B1-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ2700R D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ2800-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ2900R D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ3000-D	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM

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	A2DJ33E2-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM
	A2DJ34B2-C	50-State	389.3	88.0/64.0	25° BTDC	8.2	3600	25.1 N.m	2500	EM