

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.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 7th day of December 2009.

M. Hebert FOR AGH

Annette Hebert, Chief
 Mobile Source Operations Division

Model Year: 2010
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: AHNXS.2702AA

Issued: 8/7/2009
 Revised:
 E.O. Number: u-u-001-0461

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
	A2AH01A1-C	50-State	270.1	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	A2AH02A1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
X	A2AH0300-D	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	A2AH04A1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	A2AH05A1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	A2AH07A1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	A2AH08A1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	A2AH09A1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	A2AH10A1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM

Model Year: 2010
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 Engine Family: AHNXS.2702AA

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 E.O. Number: 4-4-001-0461

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	A2AH11A1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	A2AH12A1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	A2AH13A1-A	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	A2AH14A1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	A2AH16F1-C	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	A2AH1700R D	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	A2AH1800R D	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	A2AH1900R D	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM
	A2AH2000R D	50-State	242.8	73.0/58.0	20° BTDC	5.3	3600	15.3 N.m	2500	EM

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	A2AJ0100R D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ0200R D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ0300R D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ0400R D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ05A1-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ06A1-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ07A1-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ08A1-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ09A1-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ1000-D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM

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	A2AJ1100-D	50-State	242.8	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ1200-D	50-State	242.8	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ1300-D	50-State	242.8	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ14A1-C	50-State	242.8	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ15A1-C	50-State	242.8	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ16A1-C	50-State	242.8	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ17A1-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ1800R D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ19A1-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ20A1-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM

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	A2AJ21A1-C	50-State	242.8	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ22A1-C	50-State	242.8	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ23A1-C	50-State	242.8	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ2300-D	50-State	242.8	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ24A1-C	50-State	242.8	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ2400-D	50-State	242.8	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ25A1-C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ2500-D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ26A1R C	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM
	A2AJ2700R D	50-State	270.1	77.0/58.0	20° BTDC	6.0	3600	17.7 N.m	2500	EM