EXECUTIVE ORDER U-U-001-0459
New Off-Road Small Spark-Ignition
Engines at or Below 19 Kilowatts

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	ENGI	IE FAMILY	DISPLACEMENT (cc)	ENGINE CLASS		FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)				
2010	AHN	(S.1631AA 163 4-stroke, >8			0 cc - <225 cc	5 cc Gasoline				
DURABI HOU			PECIAL FEATURES		TYPICAL EQUIPMENT APPLICATION					
500			EM		Walk-Behind Lawnmower, Compressor, Pump, Pressure Washer, Generator Set, Tiller, Other OEM Product					
ENGINE CODES/MODELS (rated power in kilowatt, kW)		See Attachment								
EGR=exhaus	t gas recirc	ulation AIR=seco	ondary air injection PAIR=ı	pulsed AIR MFI≕	multi port fuel injec	varm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S tion SFI=sequential MFI TBI=throttle body fuel injection x)=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	10.0	549	*	
FAMILY EMISSION LEVEL	11.1	•	*	
CERTIFICATION LEVEL	9.4	321	*	

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 2009.

FOR AGH

Annette Hebert, Chief

Mobile Source Operations Division

Attachment 1 of 3

8/6/2009

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Model Year: Manufacturer:

2010

Honda Motor Co., Ltd. Engine Family: AHNXS.1631AA

E.O. Number: U-U-001-0459

Small Off-Road Engine Model Summary Form

Units for Table: kw

Worst Case?	Designation	48. Sales Code	49. Displ (cc)	50. Bore/ Stroke	51. Ignition Timing	52. Max Power	53. Rated Speed (RPM)	54. Rated 1 Torque	55. Forque Speed (RPM)	56. Emiss Control Sys
X	A1FH01B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m	n. 2500	EM
	A1FH05B2-C	50-State	163.4	68.0/45.0	25° B I DC	3.6	3600	10.3 N.m	n. 2500	⊨M
	A1FH06B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m	n. 2500	EM
	A1FH07B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m	n. 2500	ЕМ
	A1FH08B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N,m	n. 2500	EM
	A1FH08B2R C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m	n. 2500	EM
	A1FH0800-D	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m	n. 2500	EM
	A1FH09B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m	n. 2500	EM
	A1FH0900-D	50-State	163.4	68.0/45.0	, 25° BTDC ,	3.6	3600	10.3 N.m	n. 2500	EΜ
	A1FH0900R D	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m	n. 2500	EM

Attachment 2 of 3

8/6/2009

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Model Year:

2010

Manufacturer: Honda Motor Co.,Ltd.

Engine Family: AHNXS.1631AA

Revised:

E.O. Number: U-U-001-0459

Small Off-Road Engine Model Summary Form

Units for Table: kw

Worst Case?	Decidention	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. Emiss Control Sys
	A1FH10B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m	. 2500	EM
	A1FH12B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m	2500	EM
	A1FH13B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m	. 2500	EM
	A1FH14B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m	. 2500	EM
	A1FH1400-D	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10,3 N.m	. 2500	EM
	A1FH15B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m	. 2500	ЕМ
	A1FH1500-D	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m	. 2500	EM
	A1FH1500R D	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m	2500	EM
	A1FH16B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m	n. 2500	EM
	A1FH17B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m	a. 2500	EM

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Model Year:

2010

Engine Family: AHNXS.1631AA

Manufacturer: Honda Motor Co.,Ltd.

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8/6/2009

E.O. Number: U-U-001-0459

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 To Torque	55. rque Speed (RPM)	56. Emiss Control Sys
	A1FH18B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	A1FH19B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	A1FH20B2-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	A1FH2200-D	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	A1FH2200R D	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	A1FH2300-D	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	A1FH2300R D	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	A1FH2400-D	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	ЕМ
	A1FH27G1- C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM
	A1FH28L1-C	50-State	163.4	68.0/45.0	25° BTDC	3.6	3600	10.3 N.m.	2500	EM