

Honda Motor Co., Ltd.

EXECUTIVE ORDER U-U-001-0423 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	ENGINE FAMILY		DISPLACEMENT (cc)	ENGINE CLASS		FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)			
2009	KNHE	S.439A5A	439 4-s		roke, ≥ 225 cc	Gasoline			
DURABILITY HOURS		SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION				
500			ЕМ		Riding Mower, Tractor, Compressor, Pressure Washer, Generator Set				
ENGINE CODES/MODELS (rated power in kilowatt, kW)		See Attachment							
EGR=exhaus	st gas recirc	ulation AIR≔sec	ondary air injection_PAIR≍pu	ilsed AIR i	MFI=multi port fuel inje	=warm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S ection SFI=sequential MFI TBI=throttle body fuel injection ffix)=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	12,1	+	*
CERTIFICATION LEVEL	11.5	330	*

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 2008.

Annette Hebert, Chief

Mobile Source Operations Division

Attachment lof 1 Revised:

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6/30/2008

E.O. Number: u-u-001-0423

Engine Family: 9HNXS.439A5A

Small Off-Road Engine Model Summary Form

Model Year: 2009

Manufacturer: Honda Motor Co., Ltd.

47.	48.	49.	50.	51.	52.	53,	54.	55.	56.
Model Pesignatio	Sales n Code	Displ (cc)	Bore/ Strake	Ignition Timing	Max Power	Rated Speed (RPM)	Rated Torque	orque Speed (RPM)	
92EJ01D1-	-A 50-State	438.6	88.0/72.1	10°-24° BTDC	9.5	3600	29.8 N.m	2500	EM
92EJ02D2	-A 50-State	438.6	88.0/72.1	10°-24° BTDC	9.5	3600	29.8 N.m	2500	EM
92EJ0200F	RB 50-State	438.6	88.0/72.1	10°-24° BTDC	9.5	3600	29.8 N.m	2500	EM
92EJ03D2	-A 50-State	438.6	88.0/72.1	10°-24° BTDC	9.5	3600	29.8 N.m	2500	EM
92EJ0300F	RB 50-State	438.6	88.0/72.1	10°-24° BTDC	9.5	3600	29.8 N.m	2500	EM
92EJ04D2	-A 50-State	438.6	88.0/72.1	10°-24° BTDC	9.5	3600	29.8 N.m	2500	EM
92EJ0500	B 50-State	438.6	88.0/72.1	10°-24° BTDC	9.5	3600	29.8 N.m	2500	EM
92EJ0500F	RB 50-State	438.6	88.0/72.1	10°-24° BTDC	9.5	3600	29.8 N.m	2500	EM
92EJ0600	-B 50-State	438.6	88.0/72.1	10°-24° BTDC	9.5	3600	29.8 N.m	2500	EM
92EJ0600	RB 50-State	438.6	88.0/72.1	10°-24° BTDC	9.5	3600	29.8 N.m	2500	EM
92EJ0700	-B 50-State	438.6	88.0/72.1	10°-24° BTDC	9.5	3600	29.8 N.m	2500	EM
92EJ0700	RB 50-State	438.6	88.0/72.1	10°-24° BTDC	9.5	3600	29.8 N.m	2500	EM
92EH01D	1-A 50-State	438.6	88.0/72.1	10°-24° BTDC	8.5	3600	26.0 N.m	2500	EM
92EH02D	2-A 50-State	438.6	88.0/72.1	10°-24° BTDC	8.5	3600	26.0 N.m	2500	ЕМ