EXECUTIVE ORDER U-U-001-0627 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 C		CLASS	FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefie petroleum gas)			
2013	DHNX	S.6882AA	688	4-stroke, ≥	225 cc	Gasoline			
DURABILITY HOURS			SPECIAL FEATURES		TYPICAL EQUIPMENT APPLICATION				
1000			EM		Walk-Behind Mower, Riding Mower, Compressor, Pressure Washer, Generator Set, Commercial Turf				
ENGINE CODES/MODELS (rated power in kilowatt, kW)		See Attachment							

ABBREVIATIONS: EM=engine modification TWC/OC=three-way/oxidizing catalyst WUTWC/WUCC=warm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S EGR=exhaust gas recirculation AIR=secondary air injection PAIR=pulsed AIR MFI=multip port fuel injection FSI=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	7.7	*	*
CERTIFICATION LEVEL	6.5	440	*

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 2012.

- 1/1

Annette Hebert, Chief

Mobile Source Operations Division

Attachment 143

Model Year:

2013

Manufacturer: Honda Motor Co., Ltd. Engine Family: DHNXS.6882AA Revised:

7/9/2012

E.O. Number:

## Small Off-Road Engine Model Summary Form

Units for Table: kw

Page: 9 -1

Worst	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
	D2HJ0100R B	50-State	688.0	78.0/72.0	9° BTDC	16.0	3600	48.3 N.m	2500	EM
	D2HJ0200R B	50-State	688.0	78.0/72.0	9° BTDC	16.0	3600	48.3 N.m	2500	EM
	D2HJ0300R B	50-State	688.0	78.0/72.0	9° BTDC	16.0	3600	48.3 N.m	2500	EM
	D2HK0100R B	50-State	688.0	78.0/72.0	9° BTDC	16.5	3600	48.3 N.m	2500	EM
	D2HK0200R B	50-State	688.0	78.0/72.0	9° BTDC	16.5	3600	48.3 N.m	2500	EM
	D2HK0300-B	50-State	688.0	78.0/72.0	9° BTDC	16.5	3600	48.3 N.m	2500	EM
	D2HK0400R B	50-State	688.0	78.0/72.0	9° BTDC	16.5	3600	48.3 N.m	2500	EM
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Model Year: Manufacturer:

2013

Honda Motor Co., Ltd.

Issued: 7/9/2012

Revised: E.O. Number:

Engine Family: DHNXS.6882AA E.O. Number:

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 1 Torque	55. Forque Speed (RPM)	56. Emiss Control Sys
	D2HH0100-B	50-State	688.0	78.0/72.0	9° BTDC	15.5	3600	48.3 N.n	n 2500	EM
No. of the Control of	D2HH0200-B	50-State	688.0	78.0/72.0	9° BTDC	15.5	3600	48.3 N.n	n 2500	EM
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	D2HH0400R B	50-State	688.0	78.0/72.0	9° BTDC	15.5	3600	48.3 N.n	n 2500	EM
	D2HH0500R B	50-State	688.0	78.0/72.0	9° BTDC	15.5	3600	48.3 N.n	n 2500	EM
	D2HH0600R B	50-State	688.0	78.0/72.0	9° BTDC	15.5	3600	48.3 N.n	n 2500	EM
	D2HH0700R B	50-State	688.0	78.0/72.0	9° BTDC	15.5	3600	48.3 N.n	n 2500	EM
	D2HH0800-B	50-State	688.0	78.0/72.0	9° BTDC	15.5	3600	48.3 N.n	n 2500	EM
	D2HH0900-B	50-State	688.0	78.0/72.0	9° BTDC	15.5	3600	48.3 N.n	n 2500	EM
	D2HH1000R B	50-State	688.0	78.0/72.0	9° BTDC	15.5	3600	48.3 N.n	n 2500	EM

Attachment 3 of 3

7/9/2012

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Model Year: Manufacturer: Honda Motor Co., Ltd.

2013

Engine Family: DHNXS.6882AA

Revised: E.O. Number:

## 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. Forque Speed (RPM)	56. Emiss Control Sys
	D2HV0100R B	50-State	688.0	78.0/72.0	9° BTDC	15.5	3600	48.3 N.r	n 2500	EM
	D2HV0200R B	50-State	688.0	78.0/72.0	9° BTDC	15.5	3600	48.3 N.r	n 2500	EM
40,000	D2HW0100R B	50-State	688.0	78.0/72.0	9° BTDC	16.0	3600	48.3 N.r	n 2500	EM
	D2HW0200R B	50-State	688.0	78.0/72.0	9° BTDC	16.0	3600	48.3 N.r	n 2500	EM
	D2HW0300R B	50-State	688.0	78.0/72.0	9° BTDC	16.0	3600	48.3 N.r	n 2500	EM
X	D2HX0100R B	50-State	688.0	78.0/72.0	9° BTDC	16.5	3600	48.3 N.r	n 2500	EM
	D2HX0200R B	50-State	688.0	78.0/72.0	9° BTDC	16.5	3600	48.3 N.r	n 2500	EM
	D2HH11H1-	50-State	688.0	78.0/72.0	9° BTDC	15.5	3600	48.3 N.r	n 2500	EM