

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.6712AA	615, 671	4-stroke, ≥ 225 cc	Gasoline
DURABILITY HOURS	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION	
500	EM		Walk-Behind Lawnmower, Riding Mower, Compressor, Pressure Washer, Generator Set, Commercial Turf	
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	8.9	*	*
CERTIFICATION LEVEL	6.9	328	*

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.6712AA

Issued: 8/18/2009
 Revised:
 E.O. Number: 4-4-001-0466

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
	A2GH0100-D	50-State	670.6	77.0/66.0	20° BTDC	12.4	3600	39.6 N.m	2500	EM
	A2GH0200-D	50-State	614.7	77.0/66.0	20° BTDC	12.4	3600	39.6 N.m	2500	EM
X	A2GH0300R D	50-State	614.7	77.0/66.0	20° BTDC	12.4	3600	39.6 N.m	2500	EM
	A2GH0400-D	50-State	614.7	77.0/66.0	20° BTDC	12.4	3600	39.6 N.m	2500	EM
	A2GH0500-D	50-State	614.7	77.0/66.0	20° BTDC	12.4	3600	39.6 N.m	2500	EM
	A2GH0600-D	50-State	614.7	77.0/66.0	20° BTDC	12.4	3600	39.6 N.m	2500	EM
	A2GH0700R D	50-State	614.7	77.0/66.0	20° BTDC	12.4	3600	39.6 N.m	2500	EM
	A2GH0800-D	50-State	614.7	77.0/66.0	20° BTDC	12.4	3600	39.6 N.m	2500	EM
	A2GH0900-D	50-State	614.7	77.0/66.0	20° BTDC	12.4	3600	39.6 N.m	2500	EM
	A2GH1000-D	50-State	614.7	77.0/66.0	20° BTDC	12.4	3600	39.6 N.m	2500	EM

Model Year: 2010
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: AHNXS.6712AA

Issued: 8/18/2009
 Revised:
 E.O. Number: U-U-001-0466

Small Off-Road Engine Model Summary Form

Units for Table:

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
	A2GH1100-D	50-State	614.7	77.0/66.0	20° BTDC	12.4	3600	39.6 N.m	2500	EM
	A2GH1200R D	50-State	614.7	77.0/66.0	20° BTDC	12.4	3600	39.6 N.m	2500	EM
	A2GH1300R D	50-State	614.7	77.0/66.0	20° BTDC	12.4	3600	39.6 N.m	2500	EM
	A2GH1400R D	50-State	614.7	77.0/66.0	20° BTDC	12.4	3600	39.6 N.m	2500	EM
	A2GH1500R D	50-State	614.7	77.0/66.0	20° BTDC	12.4	3600	39.6 N.m	2500	EM

Model Year: 2010
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: AHNXS.6712AA

Issued: 8/18/2009
 Revised:
 E.O. Number: U-U-001-0466

Small Off-Road Engine Model Summary Form

Units for Table:

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
	A2GJ0100-D	50-State	614.7	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ0200-D	50-State	614.7	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ0300R D	50-State	614.7	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ0400-D	50-State	614.7	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ0500-D	50-State	614.7	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ0600R D	50-State	614.7	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ0700-D	50-State	614.7	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ0800-D	50-State	614.7	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ0900-D	50-State	614.7	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ1000R D	50-State	614.7	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM

Model Year: 2010
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: AHNXS.6712AA

Issued: 8/18/2009

Revised:

E.O. Number: 4-4-001-0466

Small Off-Road Engine Model Summary Form

Units for Table:

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
	A2GJ1000-D	50-State	670.6	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ1100-D	50-State	670.6	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ1200-D	50-State	670.6	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ1300R D	50-State	670.6	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ1300-D	50-State	670.6	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ1400-D	50-State	670.6	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ1500-D	50-State	670.6	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ1600R D	50-State	670.6	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ1700R D	50-State	670.6	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ1800R D	50-State	670.6	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM

Model Year: 2010
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: AHNXS.6712AA

Issued: 8/18/2009
 Revised:
 E.O. Number: U-4-001-0466

Small Off-Road Engine Model Summary Form

Units for Table:

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
	A2GJ1900R D	50-State	614.7	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ2000R D	50-State	614.7	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ2100R D	50-State	614.7	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ2200R D	50-State	614.7	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ2300R D	50-State	614.7	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ2400R D	50-State	614.7	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM
	A2GJ2500R D	50-State	614.7	77.0/66.0	20° BTDC	13.5	3600	40.6 N.m	2500	EM

Model Year: 2010
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: AHNXS.6712AA

Issued: 8/18/2009

Revised:

E.O. Number: U-U-001-0466

Small Off-Road Engine Model Summary Form

Units for Table:

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
	A2GK0100-D	50-State	670.6	77.0/72.0	20° BTDC	15.3	3600	46.0 N.m	2500	EM
	A2GK0200R D	50-State	670.6	77.0/72.0	20° BTDC	15.3	3600	46.0 N.m	2500	EM
	A2GK0300-D	50-State	670.6	77.0/72.0	20° BTDC	15.3	3600	46.0 N.m	2500	EM
	A2GK0400R D	50-State	670.6	77.0/72.0	20° BTDC	15.3	3600	46.0 N.m	2500	EM
	A2GK0500-D	50-State	670.6	77.0/72.0	20° BTDC	15.3	3600	46.0 N.m	2500	EM
	A2GK0600R D	50-State	670.6	77.0/72.0	20° BTDC	15.3	3600	46.0 N.m	2500	EM
	A2GK0700R D	50-State	670.6	77.0/72.0	20° BTDC	15.3	3600	46.0 N.m	2500	EM
	A2GK0800R D	50-State	670.6	77.0/72.0	20° BTDC	15.3	3600	46.0 N.m	2500	EM

Model Year: 2010
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: AHNXS.6712AA

Issued: 8/18/2009
 Revised:
 E.O. Number: 4-4-001-0466

Small Off-Road Engine Model Summary Form

Units for Table:

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
	A2GV0100-D	50-State	614.7	77.0/66.0	20° BTDC	12.1	3600	39.4 N.m	2500	EM
	A2GV0200R D	50-State	614.7	77.0/66.0	20° BTDC	12.1	3600	39.4 N.m	2500	EM

Model Year: 2010
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: AHNXS.6712AA

Issued: 8/18/2009

Revised:

E.O. Number: U-U-001-0466

Small Off-Road Engine Model Summary Form

Units for Table:

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
	A2GW0100-D	50-State	614.7	77.0/66.0	20° BTDC	13.3	3600	41.1 N.m	2500	EM
	A2GW0200R-D	50-State	614.7	77.0/66.0	20° BTDC	13.3	3600	41.1 N.m	2500	EM
	A2GW0300R-D	50-State	614.7	77.0/66.0	20° BTDC	13.3	3600	41.1 N.m	2500	EM
	A2GW0400R-D	50-State	614.7	77.0/66.0	20° BTDC	13.3	3600	41.1 N.m	2500	EM

Model Year: 2010
 Manufacturer: Honda Motor Co., Ltd.
 Engine Family: AHNXS.6712AA

Issued: 8/18/2009
 Revised:
 E.O. Number: U-U-001-0466

Small Off-Road Engine Model Summary Form

Units for Table:

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
	A2GX0100R D	50-State	614.7	77.0/72.0	20° BTDC	15.5	3600	44.4 N.m	2500	EM
	A2GX0200R D	50-State	614.7	77.0/72.0	20° BTDC	15.5	3600	44.4 N.m	2500	EM
	A2GX0300R D	50-State	614.7	77.0/72.0	20° BTDC	15.5	3600	44.4 N.m	2500	EM
	A2GX0400R D	50-State	614.7	77.0/72.0	20° BTDC	15.5	3600	44.4 N.m	2500	EM
	A2GX0500R D	50-State	614.7	77.0/72.0	20° BTDC	15.5	3600	44.4 N.m	2500	EM