

	JOHN DEERE	<b>EXECUTIVE ORDER U-U-077-0029</b> New Off-Road Small Spark-Ignition Equipment

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 equipment produced by the manufacturer is certified as described below. Production equipment shall be in all material respects the same as those for which certification is granted.

ENGINE DESCRIPTION			
MANUFACTURER	ENGINE FAMILY (E.O. NUMBER)	ENGINE SIZE (cc)	FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)
Kawasaki Heavy Industries, LTD.	AKAXS.4012CD (U-U-004-0436)	352, 401	Gasoline
	AKAXS.6752CC (U-U-004-0437)	675	
	AKAKS.8522CA (U-U-004-0424)	852	
	AKAXS.4012CC (U-U-004-0446)	401	
	AKAXS.4722CA (U-U-004-0450)	472	
	AKAXS.7262CC (U-U-004-0421)	726	
Briggs & Stratton Corporation	ABSXS.5002VV (U-U-002-0575)	500	
	ABSXS.7242VA (U-U-002-0577)	656, 724	
	ABSXS.5402VL (U-U-002-0576)	540	
Kohler Company	AKHXS.7252GC (U-U-005-0316)	674, 725	

\* TBC = To Be Certified

EQUIPMENT DESCRIPTION			
MODEL YEAR	EVAPORATIVE FAMILY	FUEL TANK SIZE (liters)	EQUIPMENT APPLICATION
2011	CC1	9.1, 10.5, 12.5, 13.2, 17, 18.9, 23.4, 43.5	Lawn Tractor, Utility Vehicle, Residential and Commercial Turf Mower, Bunker Rake
EMISSION CONTROL SYSTEMS (ECS)		EQUIPMENT MODEL	
Canister/Co-extruded		See Attachment	

A. ECS TYPE (Venting Control Type/Tank Barrier Type): 1. **Venting Control Type and Code:** Canister=C Sealed Tank=S Other=O 2. **Tank Barrier Type and Code:** Metal=M Treated HDPE or PE=P Co-extruded=C Selen=L Nylon=N Acetal=A Other=O B. **EVAPORATIVE FAMILY 2-LETTER CODE** (Venting Control Codes =C, S, O); (Tank Barrier Codes = M, P, C, L, N, A, O). **Note:** Always list venting control type or code first before tank barrier type or code. Do not use abbreviations for ECS types.

The following are the evaporative emission standards (Title 13, California Code of Regulations, 13 CCR Section 2754(a) or 2754(b), as applicable), and certification levels in grams per day (g/day) or grams per square meter per day (g/m<sup>2</sup>/day) or grams per liter (g/l) for this evaporative family or the component Executive Order, as applicable. The running loss emissions control has been demonstrated by the manufacturer.

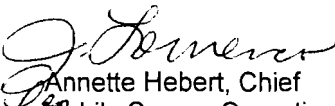
DESIGN BASED					
FUEL HOSE PERMEATION (grams ROG/m <sup>2</sup> /day)		FUEL TANK PERMEATION (grams ROG/m <sup>2</sup> /day)		CARBON CANISTER BUTANE WORKING CAPACITY (grams HC/liter)	
STANDARD	CERTIFICATION LEVEL OR EXECUTIVE ORDER	STANDARD	CERTIFICATION LEVEL OR EXECUTIVE ORDER	STANDARD	CERTIFICATION LEVEL OR EXECUTIVE ORDER
15	C-U-05-002, C-U-05-006, C-U-05-011, C-U-05-013, C-U-06-030, G-05-016, G-05-017A, G-05-018	2.5	*	1.4	C-U-07-010, Q-08-027A, C-U-06-015, Q-07-009, Q-09-027

**BE IT FURTHER RESOLVED:** That for the listed equipment, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2759 (labeling) and 13 CCR Sections 2760 and 2764 (emission control system warranty).

Equipment certified under this Executive Order must conform to all applicable California emission regulations.

**This Executive Order is only granted to the engine family and model-year listed above. Equipment in this family that is produced for any other model-year is not covered by this Executive Order.**

Executed at El Monte, California on this 19<sup>th</sup> day of August 2010.

  
 Annette Hebert, Chief  
 Mobile Source Operations Division

Small Off-Road Evaporative Certification Database Form  
(Supplementary Information)

**MODEL SUMMARY**

S1. Worst Case Check One	S2. Engine or Equipment Model	S3. Sales Codes (Check all appropriate) CA 49 50 Only State State	S4. Engine Class (I or II)	S5. Eng Disp. (cc)	S6. Fuel System (FI or Carb)	S7. Fuel Tank Vol. (Liters)	S8. Fuel Tank Internal Surface Area (m <sup>2</sup> )	S9. Fuel Line Type	S10. Nominal Fuel Line Length (mm)	S11. Fuel Line Inside Dia. (mm)	S12. Exhaust Family	S13. Fuel Tank Executive Order	S14. Fuel Line Executive Order	S15. Carbon Canister or Other Venting Control EO
<input type="checkbox"/>	I200A	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	II	352	Carb	13.2	0.41	Multi-Layer	1625	6.35	AKAXS.4012CD	Exempt-coextruded	C-U-05-006 C-U-05-011 C-U-05-013 G-05-017A G-05-018	C-U-07-010
<input type="checkbox"/>	D110	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	II	500	Carb	9.1	0.35	Multi-Layer	1660	6.35	ABSXS.5002VV	Exempt-coextruded	C-U-05-002 C-U-05-011 C-U-05-013 C-U-06-030 G-05-016 G-05-017A G-05-018	Q-08-027A
<input type="checkbox"/>	D120	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	II	540	Carb	9.1	0.35	Multi-Layer	1660	6.35	ABSXS.5402VL	Exempt-coextruded	C-U-05-002 C-U-05-011 C-U-05-013 C-U-06-030 G-05-016 G-05-017A G-05-018	Q-08-027A
<input type="checkbox"/>	D130	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	II	724	Carb	9.1	0.35	Multi-Layer	1920	6.35	ABSXS.7242VA	Exempt-coextruded	C-U-05-002 C-U-05-011 C-U-05-013 C-U-06-030 G-05-016 G-05-017A G-05-018	Q-08-027A
<input type="checkbox"/>	D140	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	II	724	Carb	9.1	0.35	Multi-Layer	1920	6.35	ABSXS.7242VA	Exempt-coextruded	C-U-05-002 C-U-05-011 C-U-05-013 C-U-06-030 G-05-016 G-05-017A G-05-018	Q-08-027A
<input type="checkbox"/>	D160	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	II	724	Carb	9.1	0.35	Multi-Layer	1920	6.35	ABSXS.7242VA	Exempt-coextruded	C-U-05-002 C-U-05-011 C-U-05-013 C-U-06-030 G-05-016	Q-08-027A

<input type="checkbox"/>	D170	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	II	724	Carb	9.1	0.35	Multi-Layer	1920	6.35	ABSXS.7242VA	Exempt-coextruded	G-05-017A G-05-018 C-U-05-002 C-U-05-011 C-U-05-013 C-U-06-030 G-05-016 G-05-017A G-05-018	Q-08-027A
<input type="checkbox"/>	TS GATOR	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	II	352	Carb	18.9	0.54	Multi-Layer	1050	6.35	AKAXS.4012CD	Exempt-coextruded	C-U-05-006 C-U-05-011 C-U-05-013 G-05-017A G-05-018	C-U-06-015 Q-07-009
<input type="checkbox"/>	TX GATOR	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	II	401	Carb	18.9	0.54	Multi-Layer	1230	6.35	AKAXS.4012CC	Exempt-coextruded	C-U-05-006 C-U-05-011 C-U-05-013 G-05-017A G-05-018	C-U-06-015 Q-07-009
<input type="checkbox"/>	TX Turf GATOR	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	II	401	Carb	18.9	0.54	Multi-Layer	1230	6.35	AKAXS.4012CC	Exempt-coextruded	C-U-05-006 C-U-05-011 C-U-05-013 G-05-017A G-05-018	C-U-06-015 Q-07-009
<input type="checkbox"/>	X300	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	II	472	Carb	12.5	0.52	Multi-Layer	1875	6.35	AKAXS.4722CA	Exempt-coextruded	C-U-05-006 C-U-05-011 C-U-05-013 G-05-017A G-05-018	C-U-06-015 Q-07-009
<input type="checkbox"/>	X304	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	II	472	Carb	12.5	0.52	Multi-Layer	1875	6.35	AKAXS.4722CA	Exempt-coextruded	C-U-05-006 C-U-05-011 C-U-05-013 G-05-017A G-05-018	C-U-06-015 Q-07-009
<input type="checkbox"/>	X320	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	II	675	Carb	12.5	0.52	Multi-Layer	1900	6.35	AKAXS.6752CC	Exempt-coextruded	C-U-05-006 C-U-05-011 C-U-05-013 G-05-017A G-05-018	C-U-06-015 Q-07-009
<input type="checkbox"/>	X500	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	II	675	Carb	17	0.86	Multi-Layer	1900	6.35	AKAXS.67522CC	Exempt-coextruded	C-U-05-002 C-U-05-011 C-U-05-013 G-05-017A G-05-018	C-U-06-015 Q-07-009
<input type="checkbox"/>	Z225	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	II	500	Carb	10.5	0.36	Multi-Layer	900	6.35	ABSXS.5002VV	Exempt-coextruded	C-U-05-002 C-U-05-011 C-U-05-013 C-U-06-030 G-05-016 G-05-017A G-05-018	C-U-06-015 Q-07-009

<input type="checkbox"/>	Z245	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	II	724	Carb	10.5	0.36	Multi-Layer	1170	6.35	ABSXS.7242VA	Exempt-coextruded	C-U-05-002 C-U-05-011 C-U-05-013 C-U-06-030 G-05-016 G-05-017A G-05-018	C-U-06-015 Q-07-009
<input type="checkbox"/>	Z425	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	II	724	Carb	13.2	0.45	Multi-Layer	1170	6.35	ABSXS.7242VA	Exempt-coextruded	C-U-05-002 C-U-05-011 C-U-05-013 C-U-06-030 G-05-016 G-05-017A G-05-018	C-U-06-015 Q-07-009
<input type="checkbox"/>	Z710A	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	II	674	Carb	23.4	0.94	Multi-Layer	1000	6.35	AKHXS.7252GC	Exempt-coextruded	C-U-05-013 G-05-017A G-05-018	Q-09-027
<input type="checkbox"/>	Z920A	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	II	726	Carb	43.5	1.21	Multi-Layer	1000	6.35	AKAXS.7262CC	Exempt-coextruded	C-U-05-006 C-U-05-011 C-U-05-013 G-05-017A G-05-018	Q-09-027
<input type="checkbox"/>	Z925A	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	II	852	Carb	43.5	1.21	Multi-Layer	850	6.35	AKAXS.8522CA	Exempt-coextruded	C-U-05-006 C-U-05-011 C-U-05-013 G-05-017A G-05-018	Q-09-027
<input checked="" type="checkbox"/>	Z930A	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	II	852	Carb	43.5	1.21	Multi-Layer	850	6.35	AKAXS.8522CA	Exempt-coextruded	C-U-05-006 C-U-05-011 C-U-05-013 G-05-017A G-05-018	Q-09-027

