

Proposed Regulation Order

NOTE: This document is printed in a style to indicate proposed changes from the existing provisions. All existing language is indicated by plain type. All proposed additions to language are indicated by underlined text. All proposed deletions to language are indicated by ~~strikeout~~. Only those portions containing the suggested modifications from the existing provisions are included. All other portions remain unchanged and are indicated by the symbol "* * * *" for reference.

Amend Article 1 and Article 3, Chapter 9, Division 3, Title 13, California Code of Regulations, and the incorporated California Exhaust Emission Standards and Test Procedures for 1995 and Later Utility and Lawn and Garden Equipment, to read as follows:

Article 1. Small Off-Road Engines

§ 2400. Applicability.

(a) (1) This article applies to small off-road engines (below 25 horsepower) produced on or after January 1, 1995 and any equipment produced on or after January 1, 1995 that uses such engines.

(2) Every new small off-road engine that is manufactured for sale, sold, or offered for sale in California, or that is introduced, delivered or imported into California for introduction into commerce, and that is subject to any of the standards prescribed in this article must be covered by an Executive Order, issued pursuant to this article.

(3) This article does not apply to compression-ignition engines, as defined in Section 2421, below 25 horsepower, produced during the 2000 and later model years or any equipment that uses such engines produced during the 2000 and later model years.

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NOTE: Authority cited: Sections 39600, 39601, 43013, 43018, 43101, 43102, and 43104, Health and Safety Code.

Reference: Sections 43013, 43017, 43018, 43101, 43102, 43104, 43150-43154, 43205.5, and 43210-43212, Health and Safety Code.

§ 2401. Definitions.

(a) The definitions in Section 1900 (b), Chapter 1, Title 13 of the California Code of Regulations, apply with the following additions:

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(35) "Small off-road engine" means any engine that produces a gross horsepower less than 25 horsepower, or is designed (e.g., through fuel feed, valve timing, etc.) to produce less than 25 horsepower, that is not used to propel a licensed on-road motor vehicle, an off-road motorcycle, an all-terrain vehicle, a marine vessel, a snowmobile, a model airplane, a model car, or a model boat. If an engine family has models below 25 horsepower and models at or above 25 horsepower, only the models under 25 horsepower would be considered small off-road engines. Uses for small off-road engines include, but are not limited to, applications such as lawn mowers, weed trimmers, chain saws, golf carts, specialty vehicles, generators and pumps. All engines and equipment that fall within the scope of the preemption of Section 209(e)(1)(A) of the Federal Clean Air Act, as amended, and as defined by regulation of the Environmental Protection Agency, are specifically not included within this category. Any compression-ignition engine, as defined in Section 2421, produced during the 2000 and later model years shall not be defined as a small off-road engine.

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NOTE: Authority cited: Sections 39600, 39601, 43013, 43018, 43101, 43102, and 43104, Health and Safety Code.

Reference: Sections 43013, 43017, 43018, 43101, 43102, 43104, 43150-43154, 43205.5, and 43210-43212, Health and Safety Code.

§ 2403. Exhaust Emission Standards and Test Procedures - Small Off-Road Engines.

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(b) Exhaust emissions from small off-road engines manufactured for sale, sold, or offered for sale in California, or that are introduced, delivered or imported into California for introduction into commerce, must not exceed:

Exhaust Emission Standards
 (grams per brake horsepower-hour)
 [grams per kilowatt-hour]

Calendar Year	Engine Class ⁽¹⁾	Hydrocarbon plus oxides of nitrogen ⁽²⁾	Hydro-carbon ⁽²⁾	Carbon Monoxide	Oxides of Nitrogen	Particulate
1995	I	12.0	--	300	--	0.9 ⁽³⁾
	II	10.0	--	300	--	0.9 ⁽³⁾
	III ⁽⁴⁾	--	220	600	4.0	--
	IV ⁽⁴⁾	--	180	600	4.0	--
	V ⁽⁴⁾	--	120	300	4.0	--
1996 to 1999	I	12.0 ⁽⁵⁾	--	350	--	0.9 ⁽³⁾
	II	10.0 ⁽⁵⁾	--	350	--	0.9 ⁽³⁾
	III ⁽⁴⁾	--	220 ⁽⁵⁾	600	4.0 ⁽⁵⁾	--
	IV ⁽⁴⁾	--	180 ⁽⁵⁾	600	4.0 ⁽⁵⁾	--
	V ⁽⁴⁾	--	120 ⁽⁵⁾	300	4.0 ⁽⁵⁾	--

Model Year	Engine Class ⁽¹⁾	Durability Periods (hours)	Hydrocarbon plus oxides of nitrogen ⁽²⁾	Carbon Monoxide	Particulate
2000-2001 ⁽⁵⁾	SI 0-65 cc, inclusive	50/125/300	54 [72]	400 [536]	1.5 ⁽⁴⁾ [2.0]
	SI >65 cc - <225 cc	N/A	12.0 [16.1]	350 [467]	
	SI ≥225 cc	N/A	10.0 [13.4]	350 [467]	
2002-2005 ⁽⁵⁾	Spark-Ignition (SI) Engines 0-65 cc, inclusive	50/125/300	54 [72]	400 [536]	1.5 ⁽⁴⁾ [2.0]
	SI >65 cc - <225 cc Horizontal	125/250/500	12.0 [16.1]	410 [549]	
	SI >65 cc - <225 cc Vertical	NA	12.0 [16.1]	350 [467]	
	SI ≥225 cc	125/250/500	9.0 [12.0]	410 [549]	

Model Year	Engine Class ⁽¹⁾	Durability Periods (hours)	Hydrocarbon plus oxides of nitrogen ⁽²⁾	Carbon Monoxide	Particulate
2006 and sub-sequent ⁽⁵⁾	SI 0-65 cc, inclusive	50/125/300	54 [72]	400 [536]	1.5 ⁽⁴⁾ [2.0]
	SI >65 cc - <225 cc	125/250/500	12.0 [16.1]	410 [549]	

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	SI	125/250/500	9.0	410	
	≥225 cc		[12.0]	[549]	
2000-2004 ⁽⁵⁾	CI	3000 hours	7.8	6.0	0.75
	<11 hp	or 5 years	[10.4]	[8.0]	[1.0]
	CI	3000 hours	7.1	4.9	0.6
	≥11 <25 hp	or 5 years	[9.5]	[6.6]	[0.8]
2005	CI	3000 hours	5.6	6.0	0.6
and sub-	<11 hp	or 5 years	[7.5]	[8.0]	[0.8]
sequent ⁽⁵⁾					
	CI	3000 hours	5.6	4.9	0.6
	≥11 <25 hp	or 5 years	[7.5]	[6.6]	[0.8]

- (1) "Class I" means small off-road engines greater than 65 cc to less than 225 cc in displacement.
 "Class II" means small off-road engines greater than or equal to 225 cc in displacement.
 "Class III" means small off-road engines less than 20 cc in displacement.
 "Class IV" means small off-road engines 20 cc to less than 50 cc in displacement.
 "Class V" means small off-road engines greater than or equal to 50 cc to 65 cc in displacement.
- (2) The Executive Officer may allow gaseous-fueled (i.e., propane, natural gas) engine families, that satisfy the requirements of the regulations, to certify to either the hydrocarbon plus oxides of nitrogen or hydrocarbon emission standard, as applicable, on the basis of the non-methane hydrocarbon (NMHC) portion of the total hydrocarbon emissions.
- (3) Applicable to all diesel-cycle engines.
- (4) Applicable to all two-stroke engines.
- (5) Engines used exclusively in snowthrowers and ice augers need not certify to or comply with the HC and NOx standards or the crankcase requirements at the option of the manufacturer.

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(d) The test procedures for determining compliance with the standards for exhaust emissions from new small off-road engines are set forth in "California Exhaust Emission Standards and Test Procedures for 1995 and Later Small Off-Road Engines," adopted March 20, 1992, and last amended ~~March 23, 1999~~ (date of amendment), which is incorporated herein by reference.

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NOTE: Authority cited: Sections 39600, 39601, 43013, 43018, 43101, 43102, and 43104, Health and Safety Code.

Reference: Sections 43013, 43017, 43018, 43101, 43102, 43104, 43150-43154, 43205.5, and 43210-43212, Health and Safety Code