

Chongqing Rato Technology Co., Ltd.

EXECUTIVE ORDER U-U-169-0343 New Off-Road Small Spark-Ignition Engines at or Below 19 Kilowatts

Pursuant to the authority vested in California 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-19-095;

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=liquefi petroleum gas)			
2020	LCRP	S.7392GD	739, 669	4-stroke, ≥ 225 cc	Gasoline			
DURABILITY HOURS		EMI	SPECIAL FEATURES & SSION CONTROL SYS		TYPICAL EQUIPMENT APPLICATION			
250			EM		Riding Mower			
ENGINE CODES/MODELS (rated power in kilowatt, kW)		See Attachment						

ABBREVIATIONS: EM=engine modification TWC/OC=three-way/oxidizing catalyst WUTWC/WUOC=warm-up TWC/OC 025=oxygen sensor H025=neated 025
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

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 1054.115(a) of the "California Exhaust Emission Standards and Test Procedures for New 2013 and Later Small Off-Road Engines," adopted October 25, 2012.

*=not applicable	HC+NOx (g/kW-hr)	CO (g/kW-hr)	PM (g/kW-hr)	
STANDARD	8.0	549	*	
FAMILY EMISSION LEVEL	*	*		
CERTIFICATION LEVEL	6.3	416	*	

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.

day of October 2019.

Executed at El Monte, California on this

Illen Lyons, Chief

Emissions Certification and Compliance Division

Page: 9

Model Year: Manufacturer:

Engine Family: LCRPS.7392GD

2020 Attachment, 1 of 1 Chongqing Rato Technology Co., Ltd.

Issued: Revised:

6/25/2019

E.O. Number:

N-N-169-0343

Small Off-Road Engine Model Summary Form

Units for Table: kW

Worst Case?	47. Model Designation	48. Sales Code	Sales Displ	50. 51. Bore/ Ignition Stroke Timing	52. 53. Max Rated Speed Power (RPM)	54. Rated Torque	55. Torque Speed (RPM)	56. Emiss Control Sys		
X	RV740	50-State	739	82/70	22±2BTDC	17.5	3600	51	2500	EM
	RV670	50-State	669	78 /70	22±2BTDC	15.5	3600	45	2500	EM
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