

Pursuant to the authority vested in California Air Resources Board by Health and Safety Code Sections 43013, 43018, 43101, 43102 and 43104; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the following new spark-ignition marine engine and emission control systems (ECS) produced by the manufacturer are certified as described below. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	FUEL TYPE	DISPLACEMENT (cc)	LEVEL OF CLEANLINESS
2020	LYMXM1.814HA	Gasoline	1812	Super Ultra Low Emission ("Four Stars")
EQUIPMENT APPLICATION		ECS & SPECIAL FEATURES		ENGINE TYPE
Inboard (Jet Boat)		Multiport Fuel Injection, Heated Oxygen Sensor, Three-way Catalytic Converter, On-Board Diagnostics-Marine System		4-Stroke
ENGINE MODELS (rated power in kilowatts, kW)	See Attachment			

The following are the hydrocarbon plus oxides of nitrogen (HC+NOx) and carbon monoxide (CO) exhaust emission standards (Title 13, California Code of Regulations, (13 CCR) Section 2442(b)) and certification emission levels in grams per kilowatt-hour (g/kW-hr) for this engine family. Engines in this engine family shall discharge no crankcase emissions into the ambient atmosphere in conformance with 13 CCR Section 2442(b).

	HC+NOx (g/kW-hr)	CO (g/kW-hr)
STANDARD	5.0	75.0
CERTIFICATION LEVEL	2.5	54.6

This engine family shall not be used to determine compliance through corporate averaging.

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 Sections 2443.1, 2443.2 and 2443.3 (emission control, consumer, and environmental labels), Section 2444.2 (on-board engine malfunction detection system), and Sections 2445.1 and 2445.2 (emission control system warranty).

Engines 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. 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 2ND day of May 2019.



Allen Lyons, Chief
 Emissions Compliance, Automotive Regulations, and Science Division

Model Year: 2020
 Manufacturer Name: Yamaha Motor Co., Ltd.
 Engine Family: LMXM1.814HA
 SI MARINE ENGINE SUPPLEMENTAL INFORMATION

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 Issued: 2018/12/1
 Revised: _____
 E.O.#: V-W-003-2413

S11. MODEL SUMMARY (Use an asterisk (*) to identify worst-case engine model used for certification testing.)

S12 Engine Model	S13 Engine Code	S14 Sales Codes (Check All appropriate)			S15 Eng. Displ. (cc)	S16 Rated Power (kW)	S17 Rated Speed (RPM)	S18 Peak Torque (N-m)	S19 Peak Torque Speed (RPM)
		Calif. Only	49-State	50-State					
AR240	6DE	*			1812	116	7600	152.3	6851
242S	6DE	*			1812	116	7600	152.3	6851
AR190	6DE	*			1812	116	7600	152.3	6851
SX190	6DE	*			1812	116	7600	152.3	6851
* 212X	6DE	*			1812	116	7600	152.3	6851
212S	6DE	*			1812	116	7600	152.3	6851
242XE	6FT	*			1812	116	7600	152.3	6851
242SE	6FT	*			1812	116	7600	152.3	6851