

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-14-012;

**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)
2015	FYMXS.1711EH	171	4-stroke, >80 cc - <225 cc	Gasoline
DURABILITY HOURS	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION	
500	EM		Compressor, Pump, Pressure Washer, Stump Beater and Generator	
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+NO<sub>x</sub>), 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+NO <sub>x</sub> (g/kW-hr)	CO (g/kW-hr)	PM (g/kW-hr)
STANDARD	10.0	549	*
FAMILY EMISSION LEVEL	*	*	*
CERTIFICATION LEVEL	8.8	292	*

**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 26<sup>th</sup> day of November 2014.

  
 Annette Hebert, Chief  
 Emissions Compliance, Automotive Regulations and Science Division

Model Year: 2015  
 Manufacturer: YAMAHA MOTOR CO.,LTD.  
 Engine Family: FYMXS.1711EH

ATTACHMENT B of 1

Issued:  
 Revised: 7/14/2015  
 E.O. Number: U-U-017-0218

RC 2  
 8/14/15

**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
X	EF26X	50-State	171	66x50mm	BTDC 23	3.5kw	3,600	10.5Nm	2,400	EM
	EF24iSX	50-State	171	66x50mm	BTDC 23	3.5kw	3,600	10.5Nm	2,400	EM
	EF24iSHX	50-State	171	66x50mm	BTDC 23	3.5kw	3,600	10.5Nm	2,400	EM
	EF28iX	50-State	171	66x50mm	BTDC 23	3.5kw	3,600	10.5Nm	2,400	EM
	Pro2.8iX	50-State	171	66x50mm	BTDC 23	3.5kw	3,600	10.5Nm	2,400	EM
	EF30iSEX	50-State	171	66x50mm	BTDC 23	4.0kw	3,800	11.0Nm	2,500	EM
	EF30iSEBX	50-State	171	66x50mm	BTDC 23	4.0kw	3,800	11.0Nm	2,500	EM
	EF30iSX	50-State	171	66x50mm	BTDC 23	4.0kw	3,800	11.0Nm	2,500	EM
	YP20GJ	50-State	171	66x50mm	BTDC 23	3.5kw	3,600	10.5Nm	2,400	EM
	YP30GJ	50-State	171	66x50mm	BTDC 23	3.5kw	3,600	10.5Nm	2,400	EM
	YP20TX	50-State	171	66x50mm	BTDC 23	3.5kw	3,600	10.5Nm	2,400	EM
	7CPK-030	50-State	171	66x50mm	BTDC 23	3.5kw	3,600	10.5Nm	2,400	EM
	7CNB-080	50-State	171	66x50mm	BTDC 23	3.5kw	3,600	10.5Nm	2,400	EM
	7CN1-090	50-State	171	66x50mm	BTDC 23	3.5kw	3,600	10.5Nm	2,400	EM
	Pro2.8iY	50-State	171	66x50mm	BTDC 23	3.5kw	3,600	10.5Nm	2,400	EM
	7CN1-080	50-State	171	66x50mm	BTDC 23	3.5kw	3,600	10.5Nm	2,400	EM
	EF26C	50-State	171	66x50mm	BTDC 23	3.5kw	3,600	10.5Nm	2,400	EM
	7CNV-040	50-State	171	66x50mm	BTDC 23	3.5kw	3,600	10.5Nm	2,400	EM
	7CPV-050	50-State	171	66x50mm	BTDC 23	3.5kw	3,600	10.5Nm	2,400	EM