

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 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)
2013	DYMXS.3572EF	357	4-stroke, ≥225 cc	Gasoline
DURABILITY HOURS	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION	
500	EM		Compressor, Pump, Pressure Washer, Stump Beater, Generator and Non-Backpack Blower	
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 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				

The following are the hydrocarbon plus oxides of nitrogen (HC+NO_x), 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 90.109 of the "California Exhaust Emission Standards and Test Procedures for 2005 and Later Small Off-Road Engines," adopted July 26, 2004.

*=not applicable	HC+NO _x (g/kW-hr)	CO (g/kW-hr)	PM (g/kW-hr)
STANDARD	8.0	549	*
FAMILY EMISSION LEVEL	*	*	*
CERTIFICATION LEVEL	6.9	389	*

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).

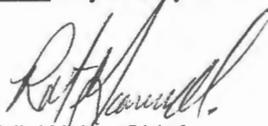
Engines certified under this Executive Order must conform to all applicable California emission regulations.

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.

This Executive Order hereby supersedes Executive Order U-U-017-0179 dated November 21, 2012.

Executed at El Monte, California on this 3rd day of July 2013.


 For Erik White, Chief
 Mobile Source Operations Division

Model Year: 2013
 Manufacturer: YAMAHA MOTOR CO.,LTD.
 Engine Family: DYMXS.3572EF

Issued:
 Revised: 4/25/2013
 E.O. Number: U-U-017-0179-1

Small Off-Road Engine Model Summary Form

Units for Table: kW

47. Worst Case?	48. Model Designation	49. Sales Code	50. Displ (cc)	51. Bore/ Stroke	52. Ignition Timing	53. Max Power	54. Rated Speed (RPM)	55. Rated Torque	56. Torque Speed (RPM)	57. Emiss Control Sys
X	7CUB-080	50-State	357	85x63mm	BTDC 25	7.6KW/360	3600	23.9Nm	2400	EM
	7BYB-020	50-State	357	85x63mm	BTDC 25	7.6KW/360	3600	23.9Nm	2400	EM
	7CUN-030	50-State	357	85x63mm	BTDC 25	7.6KW/360	3600	23.9Nm	2400	EM
	7CUN-040	50-State	357	85x63mm	BTDC 25	7.6KW/360	3600	23.9Nm	2400	EM
	EF4500iSE	50-State	357	85x63mm	BTDC 25	7.6KW/360	3600	23.9Nm	2400	EM
	EF4500iSEH	50-State	357	85x63mm	BTDC 25	7.6KW/360	3600	23.9Nm	2400	EM
	EF6300iSDE	50-State	357	85x63mm	BTDC 25	7.6KW/360	3600	23.9Nm	2400	EM
	EF6300iSDE	50-State	357	85x63mm	BTDC 25	7.3KW/360	3600	23.9Nm	2400	EM
	EF4000DQ	50-State	357	85x63mm	BTDC 25	7.6KW/360	3600	23.9Nm	2400	EM
	EF4000DH	50-State	357	85x63mm	BTDC 25	7.6KW/360	3600	23.9Nm	2400	EM
	EF4000DEQ	50-State	357	85x63mm	BTDC 25	7.6KW/360	3600	23.9Nm	2400	EM
	EF5200DQ	50-State	357	85x63mm	BTDC 25	7.6KW/360	3600	23.9Nm	2400	EM
	EF5200DEQ	50-State	357	85x63mm	BTDC 25	7.6KW/360	3600	23.9Nm	2400	EM
	EF5200DEJ	50-State	357	85x63mm	BTDC 25	7.6KW/360	3600	23.9Nm	2400	EM
	EF6600DQ	50-State	357	85x63mm	BTDC 25	7.6KW/360	3600	23.9Nm	2400	EM
	EF6600DEQ	50-State	357	85x63mm	BTDC 25	7.6KW/360	3600	23.9Nm	2400	EM
	7BYB-030	50-State	357	85x63mm	BTDC 25	7.6KW/360	3600	23.9Nm	2400	EM
	7CTB-060	50-State	357	85x63mm	BTDC 25	7.6KW/360	3600	23.9Nm	2400	EM
	7CTB-080	50-State	357	85x63mm	BTDC 25	7.6KW/360	3600	23.9Nm	2400	EM
	7CUN-020	50-State	357	85x63mm	BTDC 25	7.6KW/360	3600	23.9Nm	2400	EM
	7CTJ-020	50-State	357	85x63mm	BTDC 25	7.6KW/360	3600	23.9Nm	2400	EM