



MTD Southwest Inc.

EXECUTIVE ORDER U-U-020-0362
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-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)
2019	KMTDS.0324KS	30, 32	4-stroke, < 50 cc	Gasoline
DURABILITY HOURS	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION	
50	EM		Hedge Trimmer, Polesaw, Non-Backpack Blower, Line Trimmer, Tiller, Edger, Brushcutter, Leaf Blower/Vacuum	
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+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	50	536	*
FAMILY EMISSION LEVEL	*	*	*
CERTIFICATION LEVEL	25	439	*

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 11 day of October 2018.

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

Model Year: 2019
Manufacturer: MTD Southwest Inc.
Engine Family: KMTDS.0324KS

Issued: 8/16/2018
Revised: 8/22/2018
E.O. Number: U-U-020-0362

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*ATTACHMENT
P/CFI*

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
	AC8T - 30	50-State	30.0	36.8/27.94	32°BTDC	.75	7500	1.02	6500	EM
X	AC8T - 32	50-State	32.0	38.1/27.94	32°BTDC	.75	7500	1.02	6500	EM
	Troy-Bilt	50-State	32.0	38.1/27.94	32°BTDC	.75	7500	1.02	6500	EM
	Cub Cadet	50-State	32.0	38.1/27.94	32°BTDC	.75	7500	1.02	6500	EM
	Craftsman	50-State	32.0	38.1/27.94	32°BTDC	.75	7500	1.02	6500	EM
	Craftsman PRO	50-State	32.0	38.1/27.94	32°BTDC	.75	7500	1.02	6500	EM