

MAZDA MOTOR CORPORATION

Executive Order: A-016-0471

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

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Pursuant to the authority vested in California Air Resources Board by Health and Safety Code (HSC), Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-19-095:

IT IS ORDERED AND RESOLVED: That the following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

					TEST GRO	UP II	NFOR	MATION	***************************************				
MOD		TEST GROUP VEHICLE CLASS(ES)						FUEL C	ATEGORY		FUEL TYPE		
202	2021 MTKXT02.5CDA LDT2								SINGLE FUEL HICLE		GASOLINE		
USEFUL LIFE (miles) VEHICLE EMISSION							ATE	GORY INTERIM / INTERMEDIATE IN-USE ST					
EX	H/ORVR	EVAF		FTP S			FTP FTP			SFTP			
1	50000	15000	LEV3	SULEV30	0 LEV 3 COMPOS			*		PM			
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS						L		OBD S	TATUS	EN	ENGINE DISPLACEMENT (L)		
1	1 TWC, WU-TWC, HO2S, WR-HO2S, DFI							FULL	*	1			
*	* *						F	PARTIAL	ALL MODELS		2.5		
*	* *							ARTIAL WITH *					
		E	VAP	ORATIVE &	REFUELING	(EVA	P/OF	RVR) FAMIL	INFORMATIO	V			
EV	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR								VAP EMISSION STD VEHICLE CLASS SPECIAL FEATURE				
	MTKXR0	117GCQ	I	EV 3 OPTI	ON2 WITH	FEL		LI	LDT2 HCT				
			-//		EMISSION CI	REDIT	INF	ORMATION					
	NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON ZERO-EVAP						ZEV				OPTIONAL EXH. STD FOR WORK TRUCKS		
	n n							N N					
NMOG AND FLEET AVERAGE INFORMATION													
NMO0 RAF					0-375		W) LDT (3751 LVW-8500 MDV (10,001			MOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)			
*	* 1.10 * 0.058					.058			0.065 *				

See the Attachment for Vehicle Models, Evaporative Family, Engine Displacement, Emission Control Systems, Phase-In Standards, OBD Compliance, Emission Standards and Certification Levels, and Abbreviations. (As applicable, heavy-duty vehicles (HDV) over 14,000 pounds in GVWR listed in this Executive Order are certified to the requirements in 13 CCR Section 1961.2 applicable to MDV pursuant to 13 CCR Section 1956.8(c)(3) or 13 CCR Section 1956.8(h)(5), as applicable.)



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BE IT FURTHER RESOLVED:

The exhaust and evaporative emission standards and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50° Fahrenheit testing requirement may have been met based on the manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's fleet average compliance requirement for NMOG+NOx or Vehicle Equivalent Credit (13 CCR Sections 1961.2(b)(1), 1961.2(b)(3), or 1961.2(c) (3), and the incorporated test procedures, as applicable), or Greenhouse Gas Emissions (13 CCR Section 1961.3, or 17 CCR Section 95663, and the incorporated test procedures, as applicable), for PC, LDT, MDPV or MDV shall be equalized as required.

BE IT FURTHER RESOLVED:

For the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 [emission control labels], 1968.2 [on-board diagnostic, full or partial compliance], 2035 et seq. [emission control warranty], 2235 [fuel tank fill pipes and openings] (gasoline and alcohol fueled vehicles only), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California 2015 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for PC, LDT and MDV).

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed on this 22 day of June 2020.

Allen Lyons, Chief

Emissions Certification and Compliance Division



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								A	TTAC	СНМ	ENT								
	E	XHA	UST	AND	EVA	APOF	RATIV	/E EMI	SSION	STAN	NDAR	DS AN	D CERT	IFIC	ATION	LEVI	ELS		
		E	EXH	AUST	EMISS	SIONS	STAN	DARDS A	ND CER	RTIFICA	ATION	LEVELS	(FTP, HW	FET,	50°F, 20	°F)			
	FUEL TYPE				CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: non-CH4 HC; CO: carbon monoxide; NOx: oxides of nitrogen; HCHO: formaldehyde; PM: particulate matter; RAF: reactivity adjustment factor; 2DHS/3DHS [g HC/test]: 2/3 days diurnal+hot-soak; RL [g HC/mi]: running loss; ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: gram; mg: milligram; mi: mile; K: 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: supplemental FTP										ity oss:				
			NM			10x		CO (g/mi)		NOx (g/mi)		HCH (mg/n				PM (g/mi)			
				F	CER	Г	STD	CER	T ST	D	CERT	STD	CER	RT STD		CERT		STD	
FTP@5	0K		*		*		*	*	*		*	*	*		*	*	*		
FTP@l	JL	GASC LEV:			0.01	6 (0.030	0.3	1.	0	*	*	*	*		0.000		0.003	
50°F @	4K	GASC LEV:		- 1	0.03	0 0	0.060	0.4	1.	0	*	*	*	*					
						FU	EL TY	PE	oF .			NMOG+NO		Ox (g/mi)		CO (g	(g/mi)		
		_										ERT STD			CERT			STD	
HWFE	r @ !	50K					*					*	*	*					
HWFE	Т@	UL			GA	SOLI	NE-LE	V3 E10	3 E10		0.	0.004 0.03							
20°F	@ 50	K	СО	LD CC	E10	REGU	LAR	GASOLIN	E (TIE						0.3		1	12.5	
				S	FTP E	XHAL	JST E		STAND	ARDS	AND C	ERTIFIC	ATION LE	VEL					
					-			US06				SC03		COMPOSITE					
	FUEL TYPE			NMOG+NOx (g/mi)			CO (g/mi)	1	PM g/mi)	1	G+NOx /mi)	CO (g/mi)	NMOG+NOx (g/mi)		(g/	O ni)	PM (mg/mi)		
@ 4K		*		CERT	г *			*	*			*	*						
			ST			*		*				*	*						
			CER		XT *		*		1		*		0.014		0.	2	*		
@ UL		V3 E	1 5 11) 1		*		*	* 6		*		*	0.077		4	2	*		
	E			BIN											0.040				
			WH	OLE V	EHIC	E EV							CERTIFICA	ATIO	N LEVEL	.S			
EVAD	ODA	TI\/E				-	V	VHOLE V	EHICLE	EVAP	URATI	VE TES		RL (g/mi) @ UL					
EVAP	MIL		- -		TYPE 3DHS (g/test) @	g/test) @ UL		2DHS (g/test)		@ UL						
					CERT ST		STD	FEL CE		RT STD		FEL		CER	T	STD			
Mark ABULL ACCUL		ASOLI LEV3	10 2151 0		0.400	400 0.300		0.300				0.00							
C	RVF	R/FU	EL C	NLY /	CANI	STER	BLEE	D EVAP	ORATIV				RDS AND				EVE	LS	
EVAP				ORVR	(g/gallon) @ UL					3D	HS RIG	JEL ONLY EVAI HS RIG TEST		2DHS RIG T		TEST BLEED CA		The second secon	
FA	MIL	Υ		FI =:	DE L				FUEL TYPE		g/test) @ UL		(g/tes		STD 1	TEST (g/test)			
MTKXF	011	7GCQ	GA	SOLIN	E-	.01	0.20	GAS	OLINE-	1	RT *	STD *	*			0.014		0.020	
				ER3 E	10			TIEV	3 E10										



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EFFECTIV	/E LEAK DIAMETER STA	NDARD AND CERTIFICATION L	EVEL (INCHES)
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD
MTKXR0117GCQ	MTKXR0117GCQ-001	*	0.02

: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: DT<6000#GVWR.3751-5750#LVW: LDT3: LDT 6001-8500#GVWR.3751-5750#ALVW: LDT4: LDT 6001-8500#GVWR.5751-8500#ALVW; MDV: medium-duty vehicle; MDV4: MDV 8501-10000#GVWR; MDV5: MDV 10001-14000#GVWR; MDPV; mediumduty passenger vehicle; HDV: heavy-duty vehicle; ECS: emission control system; CERT: certification; STD: standard; FEL: family emission limit: GVWR: gross vehicle weight rating; LVW: loaded vehicle weight; ALVW: adjusted LVW; LEV: low emission vehicle; ULEV: ultra LEV; SULEV: super ULEV; ZEV: zero-emission vehicle; TZEV: transitional ZEV; TWC/OC: 3-way/oxidizing catalyst; ADSTWC: adsorbing TWC; HAC: HC adsorbing catalyst; WU: warm-up catalyst; NAC: NOx adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3: selective catalytic reduction-urea/ammonia; NH3OC: ammonia oxidation catalyst; CTOX/PTOX: continuous/periodic trap oxidizer; DPF: diesel particulate filter (active); GPF: PM filter for spark-ignited engine: HO2S/O2S: heated/oxygen sensor; WR-HO2S or AFS: wide range/linear/heated air-fuel ratio sensor; NOXS: NOx sensor; PMS: PM sensor; RDQS: reductant quality sensor; NH3S: ammonia sensor; EGR; exhaust gas recirculation; HP/LP EGR; High/Low Pressure EGR; EGRC: EGR cooler; AIR/AIRE: secondary air injection (belt driven)/(electric driven); PAIR: pulsed AIR; SFI/MFI: sequential/multiport fuel injection; DFI/IFI: direct/indirect fuel injection; TC/SC: turbo/super charger; CAC: charge air cooler; FFH: fuel fired heater; F/P/\$: full/partial/partial with fines on-board diagnostic: DOR: direct ozone reducing: HCT: hydrocarbon trap; BCAN: bleed carbon canister: prefix 2: parallel: (2) suffix: series; a hyphen (-) between after treatment ECS indicates multiple functionalities of the after treatment device (ex. DPF-SCRC: SCR coated DPF); CNG/LNG: compressed/liquefied natural gas; LPG: liquefied petroleum gas; E85: "85%" ethanol ("15%" assoline) fuel; E10; "10%" ethanol ("90%" assoline) fuel; A: automatic (with lockup); M: manual transmission; SA; semi -automatic transmission; CV: continuously variable transmission; SCV: selectable continuously variable transmission; AM: automated manual transmission; AMS: automated manual-selectable transmission; OT: other transmission; AER: all-electric range; EAER: equivalent AER; PHEV: plug-in hybrid electric vehicle; NMOG + NOx Fleet Ave. Credit for Extended Warranty: N = no credits, Y = credits. S = credits for some/select models

2021 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
MAZDA	CX-5	LDT2	2.5	SA6	MTKXR0117GCQ	1	P
MAZDA	CX-5 WITH CYLINDER DEACTIVATION	LDT2	2.5	SA6	MTKXR0117GCQ	1	P