

Executive Order: A-010-2335

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					
MODE		EST GROUP	GROUP VEHICLE CLASS(ES)					FUEL CATEGORY			FUEL TYPE		
2021	. MF	MXT03.54JM	LDT4					DEDICATED SINGLE FUEL VEHICLE			GASOLINE		
	USEFUL	LIFE (miles)		VEH	IICLE EMISS	ION (CATE	ATEGORY INTERIM / INTERMEDIATE IN-USE S					
EXH	I/ORVR	EVAP			FTP		SF	TP	FTP		SFTP		
15	50000	150000		LEV3	ULEV50	LEV	3 C	MPOSITE	*		PM		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS					L		OBD S	TATUS		ENGINE DISPLACEMENT (L)			
1	2TWC, DFI, SFI, 2WR-HO2S, 2HO2S, 2TC, CAC, EGR, EGRC							FULL	LL ALL MODELS				
*	*						P	ARTIAL	*	* 3.5			
*	* *							TIAL WITH FINES	*	*			
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION													
EVA	AP / ORV	R FAMILY	EVA	PORATIVE	STD CATE	GORY	EVAP EMISSION STD VEHICLE CLASS				SPECIAL FEATURES		
1	MFMXR02	200GDG	LE	V 3 OPTI	ON2 WITH	FEL		LDT4			HCT		
1	MFMXR02	260NDG	LE	V 3 OPT	ON2 WITH	FEL		LDT4			нст		
		•			EMISSION CI	REDI	ΓINFO	RMATION					
	EDIT FO	OX FLEET AVE. OR EXTENDED RRANTY			REDIT FOR N ZERO-EVAP	ON-P	PZEV NMOG CREDIT FOR DOF			R	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N			N				N		N		
		-		NMOG	AND FLEET	AVE	RAGI	INFORMA	TION				
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO		HO/NMHC RATIO						LVW) LDT (3751 LVW-8500		NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)	
*	*	1.10		*	0	. 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 2th day of May 2021.

Allen Lyons, Chief

Emissions Certification and Compliance Division

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ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F)

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

FUEL TYPE

		NMOG+NOx (g/mi)					NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
FTP@50K	*	*	*	*	*	*	*	*	*	*	*	
FTP@UL	GASOLINE- TIER3 E10	0.029	0.050	1.1	1.7	*	*	1	4	0.001	0.003	
50°F @4K	*	*	*	*	*	*	*	*	*			

	FUEL TYPE	NMOG+N	Ox (g/mi)	CO (g/mi)			
	FUEL TIPE	CERT	STD	CERT	STD		
HWFET @ 50K	*	*	*				
HWFET @ UL	GASOLINE-TIER3 E10	0.015	0.050				
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3)			0.7	12.5		

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC0:	3	COMPOSITE		
	FUEL TYPE		NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	*	CERT	*	*		*	*			
@ 4K		STD	*	*		*	*			
		CERT	*	*	5	*	*	0.028	1.5	*
@ UL	GASOLINE- TIER3 E10	STD	*	*	6	*	*	0.077	4.2	*
		BIN						0.060		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

	FUEL TYPE		WHOLE \						
EVAPORATIVE FAMILY		3DH	S (g/test) (D UL	2DI	HS (g/test) (RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
MFMXR0200GDG	GASOLINE- TIER3 E10	0.299	0.500	0.500	*	0.500	0.500	0.00	0.05
MFMXR0260NDG	GASOLINE- TIER3 E10	0.254	0.500	0.500	0.208	0.500	0.500	0.00	0.05



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ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS													
		FUEL ONLY EVAP & CANISTER BLEED											
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE			IG TEST) @ UL		RIG TEST t) @ UL	BLEED CANISTER TEST (g/test) @ 4K			
	FUEL TYPE	CERT	STD		CERT STD CERT STD CERT STD								
MFMXR0200GDG	GASOLINE- TIER3 E10	0.03	0.20			*	*	*	*	0.010	0.020		
MFMXR0260NDG	GASOLINE- TIER3 E10	0.02	0.20	GASOL: TIER3		*	*	*	*	0.005	0.020		
	FFECTIVE	LEAK D	IAMET	ER STA	NDARI	D AND CE	RTIFICA	TION LE	/EL (INCH	IES)			
EVAPORATIVE FAMILY LEAK FAMIL			_Y	Y CERT				STD					
MFMXR0200GDG MFMXR0200			200GDG	-001 *				0.02					
MFMXR0260	NDG	MFMXR0	260NDG	-001	* 0.02					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%"gasoline) fuel; E10: "10%" éthanol ("90%"gasoline) 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
FORD	F150 RAPTOR 4WD	LDT4	3.5	SA10	MFMXR0260NDG	1	F
FORD	F150 TREMOR 4WD	LDT4	3.5	SA10	MFMXR0200GDG	1	F
FORD	F150 TREMOR 4WD	LDT4	3.5	SA10	MFMXR0260NDG	1	F