

Executive Order: A-010-2435-1
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 GROUP INFORMATION													
MODE YEAR		EST GROUP		VEHIC	LE CLASS(E	S)		FUEL CATEGORY			FUEL TYPE		
2023	2023 PFMXT02.72V6 LDT2, LDT3						DEDICATED SINGLE FUEL VEHICLE				GASOLINE		
ı	USEFUL	LIFE (miles)		VEH	IICLE EMISS	ION C	ATE	GORY	MEDIATE IN-USE STD				
EXH	/ORVR	EVAP			FTP		SF	TP	FTP		SFTP		
15	0000	150000)	LEV3	ULEV50	LEV	3 C	OMPOSITE	*		PM		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS					L		OBD STATUS			ENGINE DISPLACEMENT (L)			
2TWC(2), DFI, SFI, 2WR-HO2S, 2HO2S, 2TC, CAC, EGR, EGRC						:,		FULL	*				
*			*				P	PARTIAL	ALL MODELS	2.7			
*	* *						PAR	RTIAL WITH FINES	*				
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION													
EVA	P / ORV	R FAMILY	EVA	PORATIVE	STD CATE	GORY	,	EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES		
E	FMXR01	40NDF	LE	V 3 OPTI	ON2 WITH	N2 WITH FEL LDT2			HCT				
E	FMXR01	40NDG	LE	V 3 OPTI	ON2 WITH	ON2 WITH FEL LDT3			HCT				
		•		ı	EMISSION C	REDIT	INFO	ORMATION					
	EDIT FO	X FLEET AVE. OR EXTENDED RRANTY			REDIT FOR N ZERO-EVAP	DIT FOR NON-PZEV NMOG CREDIT FOR DOI			OPTIONAL EXH. STD FOR WORK TRUCKS				
		N			N				N		N		
		_		NMOG	AND FLEET	AVE	RAGI	E INFORMA	TION				
NMOG RAF	CH4 RAF	FTP NMOG/NMHO RATIO	PAHO '							MOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)			
*	*	1.10		* 0.044 0.04					0.047		*		
See the Attachment for Vehicle Models, Evanorative Family, Engine Displacement, Emission Control Systems, Phase-													

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).

This Executive Order hereby supersedes Executive Order A-010-2435 dated October 14, 2022.

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 17th day of January 2023.

Robin U. Lang, 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	0.032	0.050	0.4	1.7	*	*	0	4	0.001	0.003
50°F @4K	*	*	*	*	*	*	*	*	*		

	FUEL TYPE	NMOG+N	Ox (g/mi)	CO (g/mi)		
	FUELTIFE	CERT	STD	CERT	STD	
HWFET @ 50K	*	*	*			
HWFET @ UL	GASOLINE-TIER3 E10	0.038	0.050			
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3)			0.9	12.5	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

					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	4K *	CERT	*	*		*	*			
		STD	*	*		*	*			
		CERT	*	*	6	*	*	0.038	0.5	*
@ UL	GASOLINE- TIER3 E10	STD	*	*	6	*	*	0.063	4.2	*
		BIN						0.060		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY	FUEL TYPE		WHOLE \						
		3DH	S (g/test) @	D UL	2Dł	HS (g/test) (RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
PFMXR0140NDF	GASOLINE- TIER3 E10	0.373	0.400	0.400	0.338	0.400	0.400	0.00	0.05
PFMXR0140NDG	GASOLINE- TIER3 E10	0.373	0.500	0.500	0.338	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 st) @ UL	BLEED CANISTER TEST (g/test) @ 4K		
	FUEL TYP	E CERT	STD			CERT	STD	CERT	STD	CERT	STD	
PFMXR0140NDF	GASOLINE TIER3 E1	1 0.10	0.20	GASOL TIER3		*	*	*	*	0.015	0.020	
PFMXR0140NDG		GASOLINE- TIER3 E10 0.10 0.20		GASOLINE- TIER3 E10		*	*	*	*	0.015	0.020	
I	EFFECTIV	E LEAK D	IAMET	ER STA	NDARI	D AND CE	RTIFICA	TION LE	VEL (INCH	IES)		
EVAPORATIVE	FAMILY	LEA	K FAMII	LY	Y CERT				STD			
PFMXR0140	NDF	PFMXR0	140NDF	-001 *					0.02			
PFMXR0140	PFMXR0	140NDG	-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%"gasoline) fuel; E10: "10%" ethanol ("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

2023 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	BRONCO 4WD	LDT2	2.7	SA10	PFMXR0140NDF	1	P
FORD	BRONCO 4WD	LDT3	2.7	SA10	PFMXR0140NDG	1	P
FORD	BRONCO BADLANDS	LDT2	2.7	SA10	PFMXR0140NDF	1	P
FORD	BRONCO BADLANDS	LDT3	2.7	SA10	PFMXR0140NDG	1	P
FORD	BRONCO BLACK DIAMOND	LDT2	2.7	SA10	PFMXR0140NDF	1	P
FORD	BRONCO BLACK DIAMOND	LDT3	2.7	SA10	PFMXR0140NDG	1	P
FORD	BRONCO SASQUATCH	LDT2	2.7	SA10	PFMXR0140NDF	1	P
FORD	BRONCO SASQUATCH	LDT3	2.7	SA10	PFMXR0140NDG	1	P