

FORD MOTOR COMPANY

Executive Order: A-010-2264

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		EST GROUP	VEHICLE CLASS(ES)				FUEL C	ATEGORY		FUEL TYPE			
202:	L MF	MXT02.01B2		LDT1 DEDI				SINGLE FUEL HICLE		GASOLINE			
	USEFUL	. LIFE (miles)		VEH	IICLE EMISS	ION C	ATE	GORY	INTERIM / IN	TERM	IEDIATE IN-USE STD		
EXI	I/ORVR	EVAP			FTP S			TP	FTP		SFTP		
150000 150000 LEV3 ULEV70						LEV	3 C	OMPOSITE	*		PM		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS								OBD S	OBD STATUS		ENGINE DISPLACEMENT (L)		
1	1 TWC, WR-HO2S, HO2S, DFI							FULL	ILL *				
*	* *							PARTIAL ALL MODELS		2.0			
*	* *							TIAL WITH FINES	*				
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION												
EVA	AP / ORV	R FAMILY	PORATIVE	STD CATE	GORY	Y EVAP EMISSION STD VEHICLE CLASS			SP	SPECIAL FEATURES			
MFMXR0090GDE LEV 3 OPTION2 WITH FEL								LDT1			HCT		
				ı	EMISSION CI	REDIT	r INF	ORMATION					
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR ZERO-EVA							ZEV	NMOG CREDIT FOR DOR			OPTIONAL EXH. STD FOR WORK TRUCKS		
N N									N		N		
	NMOG AND FLEET AVERAGE INFORMATION												
NMOG RAF	CH4 RAF NMOG/NMHC RATIO HCHO/NMHC RATIO NMOG+NOX FL PC+LDT (0-37: (g/mi)				0-375		V) LDT	+NOX FLEET S (3751 LVW-8500 R) + MDPV (g/m)	MOG+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 4th day of August 2020.

Allen Lyons, Chief

Emissions Certification and Compliance Division

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ATTACHMENT

	EVITATION AND EVADODATIVE EMISSION STANDARDS AND SERVICIOATION (EVE)																			
EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS																				
	EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F)																			
	F	FUEL	CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: not monoxide; NOx: oxides of nitrogen; HCHO: formaldehyde; PM: particulate radjustment factor; 2DHS/3DHS [g HC/test]: 2/3 days diurnal+hot-soak; RL [ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: gram 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: sup											matter; RAF: reactivity [g HC/mi]: running loss; n; mg: milligram; mi: mile; K:						
					NI	MOG+N (g/mi)		CO (g/mi)				NOx (g/mi)			HCH (mg/i		PM (g/mi)			
						RT	STD	CI	ERT	STI	5	CERT	STD	CERT		STD	CERT		STD	
FTP@5	0K	,	*		*		*		*	*		*	*	*	\top	*			*	
FTP@l	@UL GASOLINE- TIER3 E10 0.05			50 (0.070) O	0.8	1.7	7	*	*	1	1		0.0	01	0.003			
50°F @	4K	•	*		* * * *							*	*	* *						
FUEL TYPE									N	MOG+N	Ox (g/mi)	(g/mi)		CO (g/mi						
					FUEL TIPE							CE	ERT S			CER	т ;		STD	
HWFET @ 50K							*					*		*	*					
HWFET@UL GASOLINE-TIER3 E10						10			0.	027	0.070									
20°F@50K COLD CO E10 REGULAR GASOLINE (TIER3							.3)						1.7 10.0							
				5	SFTP	EXHA	UST E	MISSI	ON S	STANDA	ARDS	AND C	ERTIFIC	ATION L	EVEL	.S				
	US06										_		OMPOSITE							
	FUE	FUEL TYPE NMOG+NOx CO (g/mi) (g/mi)				PI (mg/		NMOG+NOx (g/mi)		CO (g/mi)		OG+NOx (g/mi)		CO /mi)	PM (mg/mi)					
@ 4K		* CE		CERT	RT *		*	*			*		*							
			STD	*			*	*			*		*							
	CEI		CERT	* *		*	*		:	*		*	(0.037		. 0	*			
@ UL		GASOLINE- TIER3 E10		STD	·D *		*		6		*		*	0.077		4.2		*		
		BII													(0.090				
			WH	OLE V	/EHIC	LE EV	APOI	RATIVI	EEM	IISSION	STAI	NDARD	SAND	ERTIFIC	ATIO	N LEVEL	.s			
EVAP	ORAT	IVE		.		PE 3DHS (g/test) @ UL					EVAP					 RL (g/mi) @ UL				
FA	MILY			FIJEL TYPE				(g/tes		FEL	CE		2DHS (g/test)							
MFMXF	0090	GDE GASOL						0.300			0.1		0.300		0.300		0.00		0.05	
	RVR	/ FUF				IISTER	BLF	ED EV	ΆΡΩ	RATIVE	EMIS	SION	STANDA	RDS AND	CE	RTIFICA ⁻	ION	LEVF	LS	
					Y / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION L FUEL ONLY EVAP & CANISTER BLEED															
EVAP		· I			allon) (@ UL	F	FUEL TYPE				HS RIG TEST //test) @ UL		2DHS RIG (g/test) @			EED CANISTE ST (g/test) @ 4			
			FU	EL TY	PE	CERT	STI	STD				RT STD		CERT	Ť	STD	CER		STD	
MFMXF	0090	GDE	GASOLTNE-			0.08	0.2		GASOLI TIER3		,	*	*	*		*	0.00	04	0.020	



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EFFECTI\	EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)									
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD							
MFMXR0090GDE MFMXR0090GDE-0		*	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

2021 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	
FORD	ECOSPORT AWD	LDT1	2.0	SA6	MFMXR0090GDE	1	P	