

FORD MOTOR COMPANY

Executive Order: A-010-2254

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 CD	NID I	NEOF	ALA TION					
MODI	EI					TEST GRO	JUPI	NFOR	RMATION					
YEA		TEST GROUP VEHICLE CLASS(ES						FUEL CATEGORY				FUEL TYPE		
202			r02.33V1			LDT2				SINGLE FUE	L	GASOLINE		
USEFUL LIFE (miles)					VE	VEHICLE EMISSION CATEG				INTERIM / II	VTER	ERMEDIATE IN-USE STD		
EXH/ORVR EVAP						FTP			TP	FTP		SFTP		
150000 150000					LEV:	V3 ULEV70 LEV 3			OMPOSITE	*		PM		
SPECIAL FEATURES & EXHAUST EMISSION CONTRO SYSTEMS						ON CONTRO			OBD S	OBD STATUS		NGINE DISPLACEMEN		
1	TWC,DFI,WR-HO2S,HO2S,TC,CAC,EGR,EGRC								FULL	ALL MODELS	71			
*	*								PARTIAL	*		2.3		
*				*				PAF	TIAL WITH	*				
			E'	/APO	RATIVE &	REFUELING	(EVA	P/OR	VR) FAMILY	INFORMATIO	N			
EVA	P/OR	VR FA	AMILY	EVA	PORATIV	E STD CATE	ORY	Y EVAP EMISSION STD VEHICLE CLASS			S	SPECIAL FEATURES		
b	IFMXR0	170N	DF	L	EV 3 OPT:	ION2 WITH E	EL	EL LDT2				HCT		
						EMISSION CF	REDIT	INFO	RMATION					
	NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON-F ZERO-EVAP							NMOG CREDIT FOR DOR			R	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N				N		N			1	N		
					NMOG	AND FLEET	AVE	RAGE	INFORMAT	ION				
IMOG RAF	CH4 RAF	1	FTP IOG/NMHC RATIO	1	HO/NMHC RATIO	NMOG+NO) PC+LDT (0					IMOG+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 ______ day of June 2020.

Allen Lyons, Chief

Emissions Certification and Compliance Division



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ATTACHMENT

EVILATIOT AND						
EXHAUSI AND	FVADODATIVE	EMICCION	CTANDADDO	ABIE	APPRINCIPLE	-
THE PART OF THE	FAMI OIMIIAE	EMISSION.	SIANUARUS	AND	CERTIFICATION LEVELS	
					OFIVILLION FEATURE	

	EXH	AUS	TANI	FV	APO	PATI	/E EM	ICCION	ICTA	NDAF	00.44	ID CERT		0.1710							
		FXI	TRILAL	EMIC	SION	CTANI	AL EIVI	ANDO	DILL	NUAR	US AN	ID CER	IIFI	CATIO	N LE	VEL	S				
		FVI	14031	CHA	SIUN	SIAN	JAKUS	AND CE	RTIFIC	ATION	LEVELS	FTP, H	NFE.	T, 50°F,	20°F)						
	Fu	IEL T		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																	
								NN	/IOG+ (g/m			CO (g/mi)		-	NOx g/mi)		HCI (mg/	N			M mi)
				CERT		T STD		RT S	STD		CERT STE		RT	STD	CI	RT	STD				
FTP@		*		×		*	*		*	*	* *				*		*				
FTP@	UL TI	SOLII ER3 I	E10	0.03	88	0.070	0.4	3 1	.7	*	*	* 1		4	0.	001	0.003				
50°F @		SOLII ER3 I		0.05	0	0.140	0.4	4 1	.7	*	*	1	7	16							
					FI	ICI TV	DE			N	MOG+N	Ox (g/mi)			CO	(g/mi)				
				FUEL TYPE							ERT	STD		CE	CERT		STD				
HWFE	T @ 50K			*							* *										
HWFE	T@UL			GA	SOLI	NE-TII	ER3 E1	R3 E10			0.0254 0.0)								
20°F	@ 50K	C	OLD CO	O E10 REGULAR GASOLINE (TIER3)										1.49 12.5			12.5				
			S	FTP E	XHA	UST EI	MISSION	STAND	ARDS	AND C	ERTIFIC	ATION LI	EVEL	S							
				US06							SC03			COMPOSITE							
	FUEL	JEL TYPE		NMOG+NOx			CO PM		NMOG+NOx		CO			1	co	PM					
		* CER)	(g/mi) (mg/i		g/mi)	-	mi)	(g/mi)	(g/mi)		(9	ı/mi)	(mg/mi)				
@ 4K	*										*		*								
			STD	-	*	\rightarrow	*			-	*	*									
	GASOL	INE-	CERT					0	0.9		*		0.0347		0	. 34	*				
@ UL				IER3 E10		E10 SID			*		*		6	,	*	*	(0.077	4	1.2	*
			BIN											0.070							
		WH	OLE VE	HICL	E EV					CONTRACTOR OF THE PERSON NAMED IN		ERTIFICA	OITA	N LEVE	LS						
EVAP	ORATIVE					WHOLE VEHICLE EVAPO									RL (g/mi) @ UL						
FA	MILY	FUELT					g/test) @ UL				2DHS (g/test)										
MFMXR0170NDF		a. 1	ASOLIN	10 22011 /		_	.400			717							STD 0.05				
		T	IER3 E									RDS AND									
					11001			-IV-111/1				P & CANIS	_			LLVE	LO				
	ORATIVE	E ORVR		(g/gallon) @ UL			3DI			HS RIG	IS RIG TEST /test) @ UL		2DHS RIG TE (g/test) @ U		ST BLEED C						
		FU	EL TYP	EC				FUEL TYPE		RT STD		CERT	1	STD	-	CERT S					
MFMXR	0170ND	GA	SOLINE ER3 E1	- 0	045	0.20	1	DLINE-	,		*	*		*	0.00	_	0.020				
ME PLAK	OTIONDI	TI	ER3 E1	0 0.	045	0.20	TIE	R3 E10			А			~	0.00	88	0.0				



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EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)									
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD						
MFMXR0170NDF	MFMXR0170NDF-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: LDT<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	OBD
FORD	EXPLORER AWD	LDT2	2.3	SA10	MFMXR0170NDF	1	F
FORD	EXPLORER RWD	LDT2	2.3	SA10	MFMXR0170NDF	1	F