

Executive Order: A-010-2209

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	OUP IN	NFOR	MATION				
MODE		EST GROUP		VEHIC	VEHICLE CLASS(ES) FUEL CATEGO		ATEGORY		FUEL TYPE			
2020	LF	MXT03.33DU	- T ₁		LDT3		1 5-		EL VEHICLE FFV)	8	5% ETHANOL, GASOLINE	
	USEFUL	LIFE (miles)		VEH	ICLE EMISS	ION C	ATE	GORY	INTERIM / IN	TE	RMEDIATE IN-USE STD	
EXH	I/ORVR	EVAI	•		FTP		SF	TP	FTP		SFTP	
15	0000	15000	0	LEV3	ULEV70	LEV	3 CC	MPOSITE	*		PM PM	
SPECIAL FEATURES & EXHAUST EMISSION CONTROL OBD STATUS						TATUS		ENGINE DISPLACEMENT (L)				
1	2TW	C, 2HO2S, 2	WR-	HO2S, SFI,	DFI, EGR	Ž.		FULL	ALL MODELS	1		
*				*			Р	ARTIAL	*		3.3	
*				*				TIAL WITH	*			
		. [EVAF	PORATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	/ INFORMATIO	V		
EVA	P / ORV	R FAMILY	E۱	/APORATIVE	STD CATE	GORY	T		SSION STD E CLASS		SPECIAL FEATURES	
I	FMXR02	00GDG		LEV 3 OPTI	ON2 WITH	FEL		LI)T3		HCT	
I	FMXR02	60NDG		LEV 3 OPTI	ON2 WITH	FEL		LDT3			HCT	
				E	MISSION C	REDIT	INFO	RMATION				
	EDIT FO	X FLEET AVE OR EXTENDED RRANTY			EDIT FOR N ZERO-EVAP		ZEV	NMOG CREDIT FOR DOP			OPTIONAL EXH. STD FOR WORK TRUCKS	
(*)		N			N			N N				
				NMOG	AND FLEET	ΓAVE	RAGE	INFORMA	TION			
NMOG RAF	CH4 RAF	FTP NMOG/NMH RATIO (GASOLINE	·	CHO/NMHC RATIO GASOLINE)	NMOG+NO PC+LDT (
*	*	1.10		*	0	.065			0.074		*	

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 at El Monte, California on this ______

Allen Lyons, Chief

Emissions Certification and Compliance Division

day of September 2019.



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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

	, 19 to	NMOG+NOx (g/mi)		CO (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	E85-EPA (GASOLINE- TIER3 E10)	0.0345 (0.0365)	0.070 (0.070)	1.06 (0.82)	1.7 (1.7)	* (*)	* (*)	1.2 (0.8)	4 (4)	0.0008 (0.0013)	0.003 (0.003)
50°F @4K	E85-EPA	0.0953	0.250	0.61	1.7	*	*	10.5	16		

	FUEL TYPE	NMOG+N	Ox (g/mi)	CO (g/mi)		
	FUEL TYPE	CERT	STD	CERT	STD	
HWFET @ 50K	*	*	*			
HWFET @ UL	E85-EPA (GASOLINE-TIER3 E10)	0.018 (0.0216)	0.070 (0.070)		13	
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3) (E70 (70% ETHANOL 30% EPA UNLEADED GASOLINE))			1.83 (2.19)	12.5 (12.5)	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

					SC03	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)	1.13 4.2 0.95 4.2	PM (mg/mi)
@ 4K	*	CERT	*	*		*	*			
		STD	***	- T.	VA TO BE SEE	*	* * * * * * * * * * * * * * * * * * * *		CO (g/mi) 1.13 4.2	
	-	CERT	*	*	1.0	*	*	0.0460	1.13	*
@ UL	E85-EPA	STD	*	*	6	* *	*	0.083	4.2	*
		BIN	THE RESERVE AND ADDRESS.		Labor Wickle		i de la	0.070		
	,	CERT	*	* * *	2.8	*	*	0.0351	0.95	*
@ UL	GASOLINE- TIER3 E10	STD	*	*	6	*	*	0.083	4.2	*
		BIN						0.070		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

	36.74		WHOLE \						
EVAPORATIVE FAMILY	FUEL TYPE	3DH	S (g/test) @	D UL	2DI	HS (g/test) (@ UL	RL (g/n	ni) @ UL
*		CERT	STD	FEL	CERT	STD	FEL	RL (g/ CERT 0.000 0.000	STD
LFMXR0200GDG	GASOLINE- TIER3 E10	0.2989	0.500	0.500	*	0.500	0.500	0.000	0.05
LFMXR0260NDG	GASOLINE- TIER3 E10	0.2537	0.500	0.500	0.2084	0.500	0.500	0.000	0.05



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				EVAPORATIVE		NLY EVAI				
EVAPORATIVE FAMILY	ORVR (g/g	(3.34)			IG TEST) @ UL	BLEED C. TEST (g/t				
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD
LFMXR0200GDG	GASOLINE- TIER3 E10	0.028	0.20	GASOLINE- TIER3 E10	in sold and the so	*	*	*	0.0100	0.020
LFMXR0260NDG	GASOLINE- TIER3 E10	0.01	0.20	GASOLINE- TIER3 E10			*	*	0.0048	0.020

 EVAPORATIVE FAMILY
 LEAK FAMILY
 CERT
 STD

 LFMXR0260NDG
 LFMXR0260NDG-001
 *
 0.02

 LFMXR0200GDG
 LFMXR0200GDG-001
 *
 0.02

t: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GWWR,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

2020 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	F150 2WD FFV	LDT3	3.3	SA6	LFMXR0200GDG	1 1	F
FORD	F150 2WD FFV	LDT3	3.3	SA6	LFMXR0260NDG	1	F
FORD	F150 2WD FFV BASE PAYLOAD LT	LDT3	3.3	SA6	LFMXR0200GDG	1	F
FORD	F150 2WD FFV BASE PAYLOAD LT	LDT3	3.3	SA6	LFMXR0260NDG	1	·
FORD	F150 4WD FFV	LDT3	3.3	SA6	LFMXR0200GDG	1 .	F
FORD	F150 4WD FFV	LDT3	3.3	SA6	LFMXR0260NDG	1.1	F
FORD	F150 4WD FFV BASE PAYLOAD LT	LDT3	3.3	SA6	LFMXR0200GDG	1	ř F
FORD	F150 4WD FFV BASE PAYLOAD LT	LDT3	3.3	SA6	LFMXR0260NDG	1	F