

Executive Order: A-010-2211

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.

USEFU EXH/ORVR 150000 SPECIAL F	150000 FEATURES & EXH SYST DFI, SFI, 2WR	LE AUST EMIS	FTP V3 ULEV70	ION C	7.	DICATED VEI	ATEGORY SINGLE FUEL HICLE INTERIM/INTERIM/	ERM	FUEL TYPE GASOLINE			
USEFU EXH/ORVR 150000 SPECIAL F	JL LIFE (miles) R EVAP 150000 FEATURES & EXH SYST DFI, SFI, 2WR	LE AUST EMIS	EHICLE EMISS FTP V3 ULEV70		ATEGO	VEI DRY	HICLE	ERM	GASOLINE			
EXH/ORVR 150000 SPECIAL F	R EVAP 150000 FEATURES & EXH SYST DFI, SFI, 2WR	LE AUST EMIS	FTP V3 ULEV70				INTERIM / IN	ERM	GASOLINE			
150000 SPECIAL F	150000 FEATURES & EXH SYST DFI, SFI, 2WR	AUST EMIS	V3 ULEV70	LEV	SFTP		VEHICLE EMISSION CATEGORY INTERIM / INTERMEDIATE IN-					
SPECIAL F	FEATURES & EXH SYST DFI, SFI, 2WR	AUST EMIS		LEV		- 12	FTP	SFTP				
1 2TWC,	SYST DFI, SFI, 2WR		SION CONTRO		3 COME	POSITE	*		*			
1			SION CONTRO	SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS								
*	2TWC, DFI, SFI, 2WR-HO2S, 2HO2S, 2TC, CAC, EGR, EGRC						ALL MODELS					
1 " 1		*			PAR	RTIAL	*		2.7			
*		*		77 A 200 C		AL WITH NES	*					
	EV	APORATIVE	& REFUELING	(EVA	P/ORVR	R) FAMILY	INFORMATION					
EVAP / OR\	RVR FAMILY	EVAPORAT	VE STD CATE	GORY	E	EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES			
LFMXR0	0200GDG	LEV 3 OF	TION2 WITH	FEL		LD	т3	HCT				
LFMXR0	0260NDG	LEV 3 OF	LEV 3 OPTION2 WITH FEL			LD	т3		HCT			
			EMISSION C	REDIT	INFOR	MATION						
CREDIT F	OX FLEET AVE. FOR EXTENDED ARRANTY	NMOG	CREDIT FOR N ZERO-EVAP		ZEV	NMOG CI	REDIT FOR DOF		OPTIONAL EXH. STD FOR WORK TRUCKS			
	N		N				N		N			
		NM	OG AND FLEET	Γ AVE	RAGE IN	NFORMAT	TION					
NMOG CH4 RAF RAF		HCHO/NMH RATIO	DC-1 D1 /0-3750									
* *	1.10	*	0	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.

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)

FUEL TYPE	CH4: methane; NMO monoxide; NOx: oxid adjustment factor; 2D ORVR [g HC/gallon of 1000 miles; F: degree	es of nitrogen; HCH DHS/3DHS [g HC/tes dispensed]: on-board	O: formaldehyde; PM: st]: 2/3 days diurnal+ho	particulate matter; l pt-soak; RL [g HC/m ery; g: gram; mg: m	RAF: reactivity ii]: running loss; illigram; mi: mile; K:
	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	GASOLINE- TIER3 E10	0.0595	0.070	1.29	1.7	*	*	*	4	*	0.01	
50°F @4K	GASOLINE- TIER3 E10	0.0628	0.140	0.48	1.7	*	*	0.7	16			
						NN	NMOG+NOx (g/mi)			CO (g/mi)		
			FUEL TYP							_		

100000000	FUEL TYPE	NMOG+N	IOx (g/mi)	CO	(g/mi)
	FOELTIFE	CERT	STD	CERT	STD
HWFET @ 50K	*	*	*		
HWFET @ UL	GASOLINE-TIER3 E10	0.0223	0.070		
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3)			1.87	12.5

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

			US06			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)	CO (g/mi)	PM (mg/mi)
@ 4K	*	CERT	*	*		*	*			
		STD	*	*	HE STATE OF	*	*	WALLEY TO SE	美国教育	BRIDE
		CERT	*	*	*	*	*	0.0956	1.25	. *
@ UL	GASOLINE- TIER3 E10	STD	*	*	*	*	*	0.083	4.2	*
	, -	BIN			4. 网络沙洲		排放数据	0.100		Way His

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE \						
EVAPORATIVE FAMILY	FUEL TYPE	3DHS (g/test) @ UL			2DI	HS (g/test) (RL (g/mi) @ UL		
	38 X	CERT	STD	FEL	CERT	STD	FEL	CERT	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



LFMXR0260NDG

FORD MOTOR COMPANY

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ORVR / FUI	EL ONLY / CA	NISTER	BLEED	EVAPOR	RATIVE	EMISSION	STANDA	RDS AND	CERTIFIC	ATION LEV	ELS
			FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL 7	TYPE	3DHS RIG TEST (g/test) @ UL			2DHS RIG TEST (g/test) @ UL		ANISTER est) @ 4K
	FUEL TYPE	CERT	STD			CERT	STD	CERT	STD	CERT	STD
LFMXR0200GDG	GASOLINE- TIER3 E10	0.022	0.20	GASOLINE- TIER3 E10		*	*	***	*	0.0100	0.020
LFMXR0260NDG	GASOLINE- TIER3 E10	0.014	0.20	The state of the s	GASOLINE- TIER3 E10		*	*	*	0.0048	0.020
	FFECTIVE	LEAK D	IAMET	ER STA	NDAR	D AND CE	RTIFICA	TION LEV	EL (INC	łES)	
EVAPORATIVE FAMILY LEAK FAMIL		Υ.	Y CERT STD				STD				
LFMXR0200GDG LFMXR0200GDG-		-001	0.02								

T.FMXR0260NDG-001

: 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

2020 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	F150 2.7L 2WD GVWR>6649 LBS	LDT3	2.7	SA	LFMXR0200GDG	1	F
FORD	F150 2.7L 2WD GVWR>6649 LBS	LDT3	2.7	SA	LFMXR0260NDG	1	F
FORD	F150 2.7L 2WD GVWR>6649 LBS	LDT4	2.7	SA	LFMXR0200GDG	1	F
FORD	F150 2.7L 2WD GVWR>6649 LBS	LDT4	2.7	SA	LFMXR0260NDG	1	F
FORD	F150 2.7L 4WD GVWR>6799 LBS	LDT3	2.7	SA	LFMXR0200GDG	1	F
FORD	F150 2.7L 4WD GVWR>6799 LBS	LDT3	2.7	SA	LFMXR0260NDG	1	F
FORD	F150 2.7L 4WD GVWR>6799 LBS	LDT4	2.7	SA	LFMXR0200GDG	1	F
FORD	F150 2.7L 4WD GVWR>6799 LBS	LDT4	2.7	SA	LFMXR0260NDG	1	F
FORD	F150 2WD	LDT3	2.7	SA	LFMXR0200GDG	1	F
FORD	F150 2WD	LDT3	2.7	SA	LFMXR0260NDG	1	F



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MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	F150 2WD BASE PAYLOAD LT TIRE	LDT3	2.7	SA	LFMXR0200GDG	1	F
FORD	F150 2WD BASE PAYLOAD LT TIRE	LDT3	2.7	SA	LFMXR0260NDG	1	F
FORD	F150 4WD	LDT3	2.7	SA	LFMXR0200GDG	1	F
FORD	F150 4WD	LDT3	2.7	SA	LFMXR0260NDG	1	F
FORD	F150 4WD BASE PAYLOAD LT TIRE	LDT3	2.7	SA	LFMXR0200GDG	1	F
FORD	F150 4WD BASE PAYLOAD LT TIRE	LDT3	2.7	SA	LFMXR0260NDG	1	F