

Executive Order: A-010-2046-1
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-14-012;

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	UP IN	IFOR	MATION					
MODE	- 1	EST GROUP		VEHIC	LE CLASS(E	S)		FUEL CATEGORY			FUEL TYPE		
2018	JF	MXT03.54JM			LDT4			DEDICATED VE	SIN			GASOLINE	
	USEFUL	LIFE (miles)		VEH	IICLE EMISS	ION C	ATE	GORY	IN	TERIM / IN	rERM	EDIATE IN-USE STD	
EXH	I/ORVR	EVAP	,		FTP		SF	TP		FTP		SFTP	
15	0000	15000	0	LEV3	ULEV125	LEV	3 C	OMPOSITE		*		NMOG+NOX	
SPE	CIAL FE	EATURES & EX	(HAU STEN		ON CONTRO	L		OBD \$	TATU	IS	EN	GINE DISPLACEMENT	
1	2TWC,	DFI, SFI, 2	WR-H	102S, 2HO2	2S, 2TC, C	AC		FULL		*			
*			*				Р	ARTIAL	ALI	MODELS	11	3.5	
*			*				PAR	TIAL WITH		*			
		E	VAPO	DRATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	Y INF	ORMATION			
EVA	P / ORV	R FAMILY	EV	APORATIVE	STD CATE	GORY		EVAP EMISSION STD VEHICLE CLASS			SF	PECIAL FEATURES	
j	FMXR02	00GDG	I	EV 3 OPTI	ON2 WITH	FEL		LI	T4			HCT	
·	FMXR02	60NDG	I	LEV 3 OPTION2 WITH				LDT4				нст	
j	FMXR02	0260NDP LEV 3 OPTION			LEV 3 OPTION2 WITH FEL			LI	OT4			HCT	
					EMISSION CI	REDIT	INF	ORMATION					
	EDIT FO	X FLEET AVE OR EXTENDED RRANTY			EDIT FOR N ZERO-EVAP	ON-P	ZEV	NMOG C	REDI	T FOR DOR	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N			N				N			N	
				NMOG	AND FLEET	AVE	RAGI	INFORMA	TION				
NMOG RAF	CH4 RAF	FTP NMOG/NMHO RATIO	НС	HO/NMHC RATIO	MHC NMOG+NOX FL					LVW-8500		MOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)	
*	*	1.10		*	0	.079			0.	092		*	

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.



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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).

/3 day of February 2018.

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.

This Executive Order hereby supersedes Executive Order A-010-2046 dated June 16, 2017.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division



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ATTACHMENT

FXHAUST	AND EVAPORATIVE EMISSION STAN	NDARDS AND CERTIFICATION LEVELS
		ADARDS AND CERTIFICATION LEVELS

EXHAUST EMISSION STANDARDS	AND CERTIFICATION LEVELS (FTP, HWF	ET. 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 (g/	G+NOx mi)	1	O mi)	1	Ox mi)	HC (mg		1	P M (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
FTP@50K	*	*	*	*	*	*	*	*	*	*	*	
FTP@UL	GASOLINE- TIER3 E10	0.0761	0.125	1.30	2.1	*	*	0.3	4	0.0030	0.01	
50°F @4K	*	*	*	*	*	*	*	*	*			

	FUEL TYPE	NMOG+N	Ox (g/mi)	CO (g/mi)
	FUEL TYPE	CERT	STD	CERT	STD
HWFET @ 50K	*	*	*		
HWFET @ UL	GASOLINE-TIER3 E10	0.0486	0.125		
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3)			1.08	12.5

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC03	3	COM	POSITE	
	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	*	*		*	*			
		CERT	*	*	*	*	*	0.0892	1.77	*
@ UL	GASOLINE- TIER3 E10	STD	*	*	*	*	*	0.097	4.2	*
		BIN						0.130		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE						
EVAPORATIVE FAMILY	FUEL TYPE	3DH:	S (g/test) (@ UL	2DI	HS (g/test) (RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
JFMXR0200GDG	GASOLINE- TIER3 E10	0.2989	0.500	0.500	*	0.500	0.500	0.000	0.05
JFMXR0260NDG	GASOLINE- TIER3 E10	0.2537	0.500	0.500	0.2084	0.500	0.500	0.000	0.05
JFMXR0260NDP	GASOLINE- TIER3 E10	0.2537	0.500	0.500	0.2084	0.500	0.500	0.000	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		BDHS RIG TEST					
	FUEL TYPE	CERT	STD			CERT	STD	CERT	STD	CERT	STD	
JFMXR0200GDG	GASOLINE- TIER3 E10 PREM	0.028	0.20	GASOL TIER3		*	*	*	*	0.0100	0.020	
JFMXR0260NDG	GASOLINE- TIER3 E10 PREM	0.01	0.20	GASOLINE- TIER3 E10		*	*	*	*	0.0080	0.020	
JFMXR0260NDP	GASOLINE- TIER3 E10 PREM	1	0.20	GASOL TIER3		*	*	*	*	0.0037	0.020	
	EFFECTIVE	LEAK D	IAMET	ER STA	NDAR	O AND CE	RTIFICAT	TION LEV	'EL (INCH	ES)		
EVAPORATIVE	FAMILY	LEA	K FAMIL	LY CERT					STD			
JFMXR0200	JFMXR0200GDG JFMXR0200GDG			-001		1	,		0.02			
JFMXR0260	NDG	JFMXR0	260NDG	-001		1	,			0.02		
JFMXR0260	NDP	JFMXR0	260NDP	-001		*				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; 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; 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

2018 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	F150 RAPTOR 4WD	LDT4	3.5	SA	JFMXR0200GDG	1	P
FORD	F150 RAPTOR 4WD	LDT4	3.5	SA	JFMXR0260NDG	1	P
FORD	F150 RAPTOR 4WD	LDT4	3.5	SA	JFMXR0260NDP	1	P