

Executive Order: A-010-2221

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	UP IN	IFORM	IATION				
MODEL	1 1	ST GROUP		VEHICI	_E CLASS(E	S)		FUEL C	ATEGORY		FUEL TYPE	
2020	LF	MXD06.27BC			MDV5				EL VEHICLE FFV)	85	% ETHANOL, GASOLINE	
ι	JSEFUL	LIFE (miles)		VEH	ICLE EMISS	ION C	ATEG	ORY	INTERIM / IN	TEF	RMEDIATE IN-USE STD	
EXH	/ORVR	EVAP			FTP		SFT	Р	FTP		SFTP	
15	0000	15000	0	LEV3	ULEV270	(I.)	A92),	ULEV 35 UC SC03, CYCLE)	*		*	
SPE	CIAL FE	ATURES & EX	KHAU STEN		ON CONTRO	L		OBD S	TATUS		ENGINE DISPLACEMENT (L)	
1		2TWC, 2HO	2S, 2	WR-HO2S,	SFI			FULL	ALL MODELS			
*			*				P	ARTIAL	*	11	6.2	
*			*			200		TIAL WITH	*		<u>.</u>	
		E	VAPO	DRATIVE &	REFUELING	(EVA	P/OR	/R) FAMIL`	/ INFORMATION	1		
EVA	P / ORVI	R FAMILY	EV	APORATIVE	STD CATE	GORY	,		SSION STD E CLASS		SPECIAL FEATURES	
L	FMXF02	50NDJ	I	LEV 3 OPTION2 WITH FEL				MDV5			*	
L	LFMXF0360NHJ		I	LEV 3 OPTION2 WITH FEL				MI	v5		*	
L	FMXR02	50NHJ	I	EV 3 OPTI	ON2 WITH	FEL		MI)V5		*	
L	FMXR03	60NHJ	I	EV 3 OPT	ON2 WITH	FEL		MI)V5		*	
		L		l	EMISSION C	REDI	r INFC	RMATION				
	MOG+NOX FLEET AVE. REDIT FOR EXTENDED WARRANTY				REDIT FOR N ZERO-EVAP		ZEV	NMOG C	REDIT FOR DO	R OPTIONAL EXH. STE		
		N			. и				N		N	
				NMOG	AND FLEE	TAVE	RAGE	INFORMA	TION			
NMOG RAF	CH4 RAF	FTP NMOG/NMH RATIO (GASOLINE	ر ا ارد	CHO/NMHC RATIO ASOLINE)		8-WV.	500 G		+NOX FLEET S 3501-10000 GVV (g/mi)		NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)	
*	*	1.10		*	(0.074			*		*	
See the	ο Attach	ment for Vel	nicle I	Models Ev	anorative Fa	amily	Engir	ne Displace	ement Emissic	n (Control Systems, Phase-	

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 ______ day of November 2019.

Michael J. Reg Allen Lyons, Chief fand

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)

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+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)	0.244 (0.241)	0.270 (0.270)	2.8 (3.5)	4.2 (4.2)	* (*)	* (*)	2 (*)	6 (6)	0.000	0.010 (0.010)
50°F @4K	E85-EPA	0.221	0.675	0.8	4.2	*	*	3	20	on the source	Same and

	FUEL TVDE	NMOG+N	Ox (g/mi)	CO (g/mi)		
	FUEL TYPE	CERT	STD	CERT	STD	
HWFET @ 50K	*	*	*			
HWFET @ UL	E85-EPA (GASOLINE-TIER3 E10)	0.162 (0.195)	0.270 (0.270)			
20°F @ 50K	*			*	*	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC03	3	CON	IPOSITE	
	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	*	*		*	*		СО	College (College
		CERT	*	*	*	*	*	0.276	2.5	2
@ UL	E85-EPA	STD	*	*	*	*	*	0.550	6.0	7
		BIN	Alberta Medical Artist A	The contractor	表示。在这些类数的	manager days	CHARLENIE	*	4. 经收益	i instituti
		CERT	*	*	*	*	*	0.243	3.8	1
@ UL	GASOLINE- TIER3 E10	STD	*	*	*	*	*	0.550	6.0	7
		BIN		11.00	* 815/61/6			*		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

		WHOLE VEHICLE EVAPORATIVE TESTING (PE 3DHS (g/test) @ UL 2DHS (g/test) @ UL	5 to 1 to 2						
EVAPORATIVE FAMILY	FUEL TYPE	3DHS (g/test) @ UL			2DI	HS (g/test) (RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
LFMXF0250NDJ	GASOLINE- TIER3 E10	0.352	0.600	0.600	0.231	0.600	0.600	0.000	0.05
LFMXF0360NHJ	GASOLINE- TIER3 E10	0.377	0.600	0.600	0.356	0.600	0.600	0.000	0.05
LFMXR0250NHJ	GASOLINE- TIER3 E10	0.352	0.600	0.600	0.231	0.600	0.600	0.000	0.05
LFMXR0360NHJ	GASOLINE- TIER3 E10	0.377	0.600	0.600	0.356	0.600	0.600	0.000	0.05



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	FAMILY FUEL TYPE (g/test) @ UL G/test) @ UL TEST (g/test) @ UL TEST (
ORVR / FUI												
		FUEL ONLY EVAP & CANISTER BLEED										
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE							BLEED CANISTER TEST (g/test) @ 4K	
	FUEL TYPE	CERT	STD			CERT	STD	CERT	STD	CERT	STD	
LFMXF0250NDJ	E10-EPA	*	*			*	*	*	*	0.013	0.030	
LFMXF0360NHJ	E10-EPA	*	*			*	*	*	*	0.013	0.030	
LFMXR0250NHJ	E10-EPA	0.040	0.20		GASOLINE-		*	*	*	0.013	0.030	
LFMXR0360NHJ	E10-EPA	0.012	0.20			*	*	*	*	0.013	0.030	
	FFECTIVE	STD STD										
EVAPORATIVE	FAMILY	LEA	K FAMIL	_Y		CE	RT			STD		
LFMXR0250	NHJ	LFMXR0	250NHJ-001 * 0.02			*			0.02			
LFMXF0250	LDI	LFMXF0	250NDJ	-001		,	•		0.02			
LFMXR0360	NHJ	LFMXR0	360NHJ	-001		,	•			0.02		
LFMXF0360	NHJ	LFMXF0	360NHJ	-001		,	•	1 2	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

2020 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	F350 2WD BED DELETE FFV	MDV5	6.2	SA6	LFMXF0250NDJ	1	F
FORD	F350 2WD BED DELETE FFV	MDV5	6.2	SA6	LFMXF0360NHJ	1	F
FORD	F350 4WD BED DELETE FFV	MDV5	6.2	SA6	LFMXF0250NDJ	1	F
FORD	F350 4WD BED DELETE FFV	MDV5	6.2	SA6	LFMXF0360NHJ	1	F
FORD	F350 PICKUP 2WD FFV	MDV5	6.2	SA6	LFMXR0250NHJ	1	F



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2020 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	F350 PICKUP 2WD FFV	MDV5	6.2	SA6	LFMXR0360NHJ	1	F
FORD	F350 PICKUP 4WD FFV	MDV5	6.2	SA6	LFMXR0250NHJ	1	F
FORD	F350 PICKUP 4WD FFV	MDV5	6.2	SA6	LFMXR0360NHJ	1	F