

TOYOTA MOTOR CORPORATION

Executive Order: A-014-1077

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.

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STEP		USEFU	L LIF	E (miles)			VEHICLE EMISSION CATEGO				GORY	RY INTERIM/INT			ERMEDIATE IN-USE STD		
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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 1311 day of July 2020.

Allen Jons, Chief

Emissions Certification and Compliance Division



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ATTACHMENT

	EXH	AUS	TAN	D EV	APO	RATI	VE EMIS	SION	STA	NDAR	DS AN	D CERT	IFIC	CATIO	N LE	VEL:	3	
		EXH	HAUST	EMIS	SION	STAN	DARDS A	ND CE	RTIFIC	ATION	LEVELS	(FTP, HV	VFET	Γ, 50°F , :	20°F)			
	FL	JEL TY		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														
				NA	/IOG+ (g/mi		CO (g/mi)				NOx J/mi)		HCI (mg/	-		PM (g/mi)		
				CER	Т	STD	CERT			CERT	CERT STD		T	STD	CE	RT	STD	
FTP@5		*		*		*	*	<u> </u>	k	*	*	*		*		*	*	
FTP@	TI TI	SOLII ER3 I		0.03	23	0.070		1	. 7	*	*	*		4	0.0	800	0.003	
50°F @	4K	*		*		*	*	,	t	*	*	*		*				
					FL	JEL TY	PE			_		Ox (g/mi)				g/mi))	
		-								CI	RT	STD		CEI	RT		STD	
	T @ 50k	+				*					*	*						
HWFE	T@UL			GASOLINE-TIER3 E10						0.0	0082	0.070						
20°F	@ 50K	C						ASOLINE (TIER3)						0.73 12.5			12.5	
			1	SFTP E	EXHA	UST E		STAND	ARDS	AND C		ATION L	EVEL					
		TVOE		US06 NMOG+NOx CO PM							SC03			COMPOSITE				
	FUEL '	ITPE		NMOG+NOx (g/mi)		CO (g/mi)			NMOG+NC (g/mi)		CO (g/mi)	NMOG+N (g/mi)		1	CO J/mi)	PM (mg/mi)		
@ 4K	*	* CER		Т	*		*				*	*						
		ST		*		*				*	*							
		ASOLINE- IER3 E10 ST		T *			*	1	.2		*	*	0.0356		0.99		*	
@ UL				D *		*	6			*		*		4	1.2	*		
			BIN										0.080					
		WH	IOLE \	/EHICI	EEV				-			CERTIFICA	ATIO	N LEVE	LS			
EVAP	ORATIV	E _		WHOLE VEHICLE EVAP										L (g/n	ni) @	UL		
FAMILY			FUEL TY					/test) @ UL			2DHS (g/test)							
MTYXR0165P82		21	GASOLINE-		0.23		STD 0.400	FEL *	CE	-+	0.400	+ FEL					STD 0.05	
		1	'IER3					DATI	E Esate	201011		DDG AND	0==					
	/KVK/P	JEL (UNLT	CANI	SIEK	DLEE	DEVAPO	KAIIVI				RDS AND			_	LEVE	r2	
EVAPORATIVE FAMILY		E ORVR		R (g/gallon) @ UL				T/5=	3D	HS RIG	TEST	2DHS	2DHS RIG		TEST BLEE		D CANISTER	
		FI	IEL TY	PE CERT STD			FUEL TYPE		rtest) @ UL		CERT	test) @ UL T STD		TEST (g/tes		STD		
MTYXR0165P82		2 GA	SOLIN	NE- 0 005 0 20		GASO	GASOLINE- LEV3 E10		*			+	*			0.020		
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EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)										
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD							
MTYXR0165P82	MTYXR0165P82-001	*	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; 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; AFR: 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 ECS	OBD
LEXUS	RX 350	LDT2	3.5	SA8	MTYXR0165P82	1	F
LEXUS	RX 350 AWD	LDT2	3.5	SA8	MTYXR0165P82	1	F
LEXUS	RX 350 L	LDT2	3.5	SA8	MTYXR0165P82	1	F
LEXUS	RX 350 L AWD	LDT2	3.5	SA8	MTYXR0165P82	1	F
TOYOTA	HIGHLANDER	LDT2	3.5	SA8	MTYXR0165P82	1	P
TOYOTA	HIGHLANDER AWD	LDT2	3.5	SA8	MTYXR0165P82	1	P