

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	FORM	ATION					
MODE	- I T	EST GROUP	VEHIC	VEHICLE CLASS(ES)			FUEL C	ATEGORY		FUEL TYPE		
2020	LT	YXT03.5P3S		LDT3	LDT3					ELECTRIC		GASOLINE
-	USEFUL	LIFE (miles)	VEH	ICLE EMISS	SION C	ATEG	ORY	INTERIM / INT	ERM	MEDIATE IN-USE STD		
EXH	/ORVR	EVAP		FTP		SFT	TP FTP			SFTP		
15	0000	150000	LEV3	SULEV30	LEV	3 CO	MPOSITE	*	Let 1	PM		
SPE	CIAL FE		HAUST EMISSIO	ON CONTRO	DL		OBD S	TATUS	E	NGINE DISPLACEMENT (L)		
1)FI, SE	I, EGR, EGRC	C, 2WR-HO2S, TWC	2TWC, 2HC)2S,		FULL	ALL MODELS				
*			*			P	ARTIAL	*		3.5		
*			*				FIAL WITH	*				
		EV	APORATIVE &	REFUELING	G (EVA	P/OR	R) FAMILY	INFORMATION				
EVA	P / ORV	R FAMILY	EVAPORATIVE	E STD CATE	GORY	,		SSION STD E CLASS	s	PECIAL FEATURES		
L	LTYXR0190E92		LEV 3	LEV 3 OPTION2			LDT3			HCT		
		•		EMISSION C	REDIT	INFO	RMATION					
	EDIT FO	X FLEET AVE. DR EXTENDED RRANTY		EDIT FOR NON-PZEV ZERO-EVAP			NMOG CREDIT FOR DOR			OPTIONAL EXH. STD FOR WORK TRUCKS		
	N N						N			N		
			NMOG	AND FLEE	TAVE	RAGE	INFORMA	ΓΙΟΝ				
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO	HCHO/NMHC RATIO	NMOG+NOX FLEET PC+LDT (0-3750 L (g/mi)								
*	*	1.10	0.003		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.)

CALIFORNIA

TOYOTA MOTOR CORPORATION

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 15th day of August 2019.

Allen Lyons, Chief Emissions Certification and Compliance Division



TOYOTA MOTOR CORPORATION

Executive Order: A-014-1050 New Passenger Cars, Light-Duty Trucks and **Medium-Duty Vehicles** Page 3 of 4

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

FUE	LT	YPE

1. S. 19 1. 18. 15.													
		NMOG+NOx (g/mi)		CO (g/mi)			NOx (g/mi)		HCHO (mg/mi)		M mi)		
			CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
FTP@50K		*	*	*	*	*	*	*	*	*	*	*	
FTP@UL		DLINE- R3 E10	0.0181	0.030	0.11	1.0	*	*	*	4	0.0003	0.003	
50°F @4K		*	*	*	*	* *	2.1 1	*	*	*		State of the	
							NN	NMOG*NOx (g/mi)			CO (g/mi)		
and the second				FUEL TYP	E		CE	RT	STD	CEF	RT	STD	
HWFET @ 50K				*			*		· *				
HWFET @ UL			GASOI	INE-TIEN	R3 E10		0.0	089	0.030	and the second		Here .	
20°F @ !	50K	COLD	CO E10 RE	GULAR G	ASOLINE	(TIER3)				0.8	34	12.5	
							Party Scienting and	AND AND ADDRESS OF					

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

Service 1					US06	1	1	SC03		CC	COMPOSITE		
	FUEL TYP	PE	N	MOG+NOx (g/mi)	CO (g/mi)		YM N J/mi)	MOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	c CO (g/mi)	PM (mg/mi)	
@4K *		CEF	RT	*	*	•		*	*				
0		ST	D	*	*			*	*		S B. P. LAN		
			RT	*	*	0	.4	*	*	0.0215	0.11	*	
@ UL	GASOLINE TIER3 E1	1 S ID 1		*	*		6	*	*	0.083	4.2	*	
		BI	N							0.040			
	١	WHOLE	VEHIC	LE EVAPO	ORATIVE E	MISSION	STAND	ARDS AND	CERTIFIC	ATION LEVE	_S		
					WHOLE	VEHICLE	EVAPOR	RATIVE TEST	TING				
EVAPORATIVE FAMILY		FUEL TYPE		3DH	S (g/test) (DL	2	DHS (g/test) @ UL	€ UL RL (g/mi) @			
				CERT	STD	FEL	CERT	STD	FE	L CER	т	STD	
LTYXE	0190E92	GASOI		0.1742	0.500	*	0.173	5 0.500	*	0.0	04	0.05	

ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS FUEL ONLY EVAP & CANISTER BLEED ORVR (g/gallon) @ UL EVAPORATIVE 3DHS RIG TEST 2DHS RIG TEST BLEED CANISTER

TIER3 E10

FAMILY				FUEL TYPE	(g/test) @ UL		(g/test) @ UL		TEST (g/test) @ 4K	
	FUEL TYPE				CERT	STD	CERT	STD	CERT	STD
LTYXR0190E92	GASOLINE- TIER3 E10	0.009	0.20	*	*	*	*	*	*	*

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EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)								
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD					
LTYXR0190E92	LTYXR0190E92-001	· · · · · · · · · · · · · · · · · · ·	0.02					

t: 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	OBC
LEXUS	RX 450H L AWD	LDT3	3.5	SCV6	LTYXR0190E92	1	F