

## TOYOTA MOTOR CORPORATION

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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 INFO	RMATION	N					
MOD		TEST GROUP			VEHICLE CLASS(ES)			FUEL CATEGORY			FUEL TYPE		
202	0 LT	YXT03.5M5M		LDT2			DEDICA	DICATED SINGLE FUEL VEHICLE			GASOLINE		
	USEFUL	. LIFE (miles)	No.	VEH	IICLE EMISS	ION CATI	GORY	100	INTERIM / IN	TERM	ERMEDIATE IN-USE STD		
EXH/ORVR EVAP			347,1460	FTP SF			FTP	TP FTP			SFTP		
150000 150000			- CONT.	LEV3	B ULEV70 LEV 3 COMPO			SITE *			PM		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS							OBD STATUS ENGINE DISPLACEMENT						
1	DFI	, SFI, 2WR-H	02S,	2TWC, 2	HO2S, TWC		FULL		ALL MODELS	200			
*			*			12000	PARTIAL		*		3.5		
*			*			PA	RTIAL W		*				
		EV	APOF	RATIVE &	REFUELING	(EVAP/O	RVR) FA	MILY	INFORMATIO	٧	,		
EV	AP / ORV	R FAMILY	EVAF	PORATIVE	STD CATE	GORY	VEHICLE CLASS			s	SPECIAL FEATURES		
LTYXR0165P82				LEV 3	V 3 OPTION2			LDT2			HCT		
				i	EMISSION CI	REDIT IN	ORMATI	ION					
	REDIT FO	X FLEET AVE. OR EXTENDED RRANTY			EDIT FOR N ZERO-EVAP	ON-PZEV	NIMOG CERTIFICATION			OPTIONAL EXH. STD FOR WORK TRUCKS			
		N			N				N		N		
				NMOG	AND FLEET	AVERA	SE INFOR	RMA	TION				
NMO(3/NMHC)				O/NMHC ATIO	NMOG+NO PC+LDT (9		W) [	LDT (	+NOX FLEET S (3751 LVW-850( R) + MDPV (g/m	0	MOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	* * 1.10 0.040 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.

This Executive Order hereby supersedes Executive Order A-014-1037 dated April 5, 2019.

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

Executed at El Monte, California on this 15

\_ day of August 2019.

Allen Lyons, Chief

Emissions Certification and Compliance Division

GASOLINE-TIER3 E10

0.005

0.20

LTYXR0165P82

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0.0046

0.020

### **ATTACHMENT**

							A	TTACI	HMEN	IT													
		-										CERTIF	_		and the state of t	.s							
4	FUEL TYPE		CI m ac O	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: milligram; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: supplemental FTP									/ s;										
												NMOG+NOx (g/mi)		CO (g/mi)		NOx (g/mi)		HCH (mg/r			(!	PM (g/mi)	
	1-2 1-3 1-3		CERT		Т	STD		STD	CEI	CERT STD				STD	CERT	CERT							
FTP@5	0K	*		*		*	* -	*	*		*	*		*	*		*						
FTP@l	JL GASOLINE- TIER3 E10		1 (	1 0 0289		.070	0.20	1.7	*	* *		*		4 *		'	0.003						
50°F @	4K	*		*		*	*	*	*		*	*	丄	*			NE SA						
	0.061				FUI	EL TYP	E				MOG+NC		_		CO (g/n								
										RT	STD		CEF	RT	STD								
HWFE'	T @ 50K					*					*	*	6000										
HWFE	T@UL			GA	SOLIN	E-TIE	IER3 E10			0.0	0.070												
20°F	@ 50K	co	LD CO	E10	REGU	LAR G	ASOLINE	E (TIER	3)					0.6	51	12	2.5						
171			SI	TP E	EXHAL	JST EM	ISSION	STANDA	RDS AN	DС	ERTIFICA	ATION LE	VEL	S									
				U\$06						SC03					COMPOSITE OG+NOx CO PM								
	FUEL TY	JEL TYPE		NMOG+		)G+NOx g/mi) (		Pi (mg/		IMOG+NOx (g/mi)		CO N (g/mi)		NMOG+NOx (g/mi)		- 1	PM (mg/mi)						
@ 4K	*	* CER		CERT *		*		*				*	*										
					*		*			*		*			The second secon	10 to							
	***************************************	GASOLINE- TIER3 E10 BI				CERT		RT *			*	*		*		*		0.0216		3	*		
@ UL				y	*		*	6			*	*	C	.083	4.2	؛	*						
													C	0.080									
		WH	OLE VI	HIC	LE EV	APORA	TIVE E	MISSION	STANDA	٩RD	S AND C	ERTIFICA	TIO	N LEVE	LS								
						W	HOLE V	EHICLE	EVAPOR	ATI	VE TEST	ING		_	N. 4-4	<u> </u>							
EVAPORATIVE FAMILY		E FUEL TYPE		TYPE 3DHS (g/test) @ UL				2	2DHS (g/test) @ UL				RL (g/mi) @ UL										
				G1 G01 =:-=		RT S	STD	FEL	CERT	STD		FEL		CERT		STD							
T.TVYYD0165D821		ASOLII	OLINE- 3 E10 0.2304 0.				* .		0.400 *		*	0.008		800	0.05								
(	ORVR / FL	EL C	ONLY /	CAN	ISTER	BLEED	EVAPO	DRATIVE	EMISSI	NC:	STANDA	RDS AND	CEF	RTIFICA	ATION LE	VEL	.s						
			<b></b>									& CANIS											
EVAPORATIVE FAMILY					R (g/gallon) @ UL			FUEL TYPE		DHS RIG TEST (g/test) @ UL		2DHS RIG (g/test) (				CANISTER g/test) @ 4K							
		FUEL		E	CERT	STD			CERT		STD	CERT		STD	CERT		STD						

GASOLINE-

LEV3 E10



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EFFECTIV	'E LEAK DIAMETER STAN	DARD AND CERTIFICATION L	_EVEL (INCHES)
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD
LTYXR0165P82	LTYXR0165P82-001	*	0.02

t: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: 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; 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	OBD
LEXUS	RX 350	LDT2	3.5	SA8	LTYXR0165P82	1	
LEXUS	RX 350 AWD	LDT2	3.5	SA8	LTYXR0165P82	1	F
LEXUS	RX 350 L	LDT2	3.5	SA8	LTYXR0165P82	1	F
LEXUS	RX 350 L AWD	LDT2	3.5	SA8	LTYXR0165P82	1	F
TOYOTA	SIENNA	LDT2	3.5	SA8	LTYXR0165P82	1	F
TOYOTA	SIENNA AWD	LDT2	3.5	SA8	LTYXR0165P82	1	F