

# TOYOTA MOTOR CORPORATION

Executive Order: A-014-1063

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.

Annua -				TEST GR	OUP IN	FORMA	TION					
MODE		EST GROUP	VEHIC	VEHICLE CLASS(ES)			FUEL CATEGORY			FUEL TYPE		
2020	LT	YXJ02.5N4L	LD	LDT1, LDT2			PEDICATED SINGLE FUEL VEHICLE			GASOLINE		
(	USEFUL	LIFE (miles)	VEH	ICLE EMIS	SION C	ATEGOR	RY	INTERIM / INT	ERME	DIATE IN-USE STD		
EXH	ORVR	EVAP	9 1 2	FTP SF			TP FTP			SFTP		
15	0000	150000	LEV3	ULEV50	LEV	3 COMP	OSITE	NMOG+NOX AND	PM	PM PM		
SPE	CIAL FE	ATURES & EXI	HAUST EMISSION	ON CONTRO	OL		OBD S	TATUS	ENGI	NE DISPLACEMENT		
1	DFI,	SFI, EGR, EG	RC, WR-HO2S	(2), TWC(2	2)	FU	LL	ALL MODELS				
*			*			PAR	TIAL	*		2.5		
* PARTIAL WITH *												
		EV	APORATIVE &	REFUELING	G (EVA	P/ORVR)	FAMILY	INFORMATION				
EVA	P / ORV	R FAMILY	EVAPORATIVE	STD CATE	EGORY			SSION STD E CLASS	SPE	CIAL FEATURES		
L	TYXR01	.30P72	LEV 3	EV 3 OPTION2			LDT1			HCT		
				EMISSION C	CREDIT	INFORM	MATION					
					EDIT FOR NON-PZEV NM			REDIT FOR DOR	1	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N		N				N		N		
			NMOG	AND FLEE	T AVE	RAGE IN	FORMA	TION				
NMOG RAF	RAF NMOG/NMHC RATIO PC+LDT (0-3							(3751 LVW-8500	MDV (10,001-14,000			
*	*	1,10	0.008		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.

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

Executed at El Monte, California on this

Allen Lyons, Chief

**Emissions Certification and Compliance Division** 

day of October 2019.

GASOLINE-

TIER3 E10

0.003

0.20

LTYXR0130P72

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### **ATTACHMENT**

						AI	IAC	LIVIE	14.1							
											CERTI				3	
		XHAUS	T EMIS	SSION S	STANDA	RDS ANI	D CERT	IFICAT	ION L	EVELS (	FTP, HWI	ET,	50°F, 20	°F)		
	FUEL	FUEL TYPE		oxide; No stment fa R [g HC	Ox: oxid actor; 20 /gallon o	es of nitro HS/3DHS lispensed	gen; Ho [g HC/ ]: on-bo	CHO: for test]: 2/3 ard refu	rmald 3 day eling	ehyde; Pl s diurnal·l vapor rec	oon; NMHe M: particul hot-soak; covery; g: g ure; SFTP	ate r RL [ gram	matter; R g HC/mi] ; mg: mil	AF: reacti : running ligram; m	vity loss;	
				NI		NMOG+NOx (g/ml)			CO (g/mi)		NOx (g/mi)		HCH (mg/r		Trans.	
	7		CE	RT	STD	CERT	STE	C	ERT	STD	CERT		STD	CERT	STD	
FTP@5	0K	*	*		*	*	*	*	*	*	*		*	*	*	
FTP@l		LINE-	0.0	305	0.050	0.31	1.7		*	*	*		4	0.0013	0.003	
50°F @	4K	*	*		*	*	*		*	*	*		*		Para vice	
				FII	EL TYP	F			N	MOG+NC	x (g/mi)			CO (g/m		
				TOLL TIPE					CERT		STD		CERT		STD	
HWFE	T @ 50K				*					*	*					
HWFE	T@UL		G	ASOLIN	VE-TIE	R3 E10			0.0	143	0.050					
20°F	@ 50K	COLD	CO E1	0 REGU	JLAR G	ASOLINE	(TIER	3)	1				1.44		10.0	
			SFTP	EXHA	UST EM	ISSION S	TANDA	RDS A	ND C	ERTIFIC	ATION LE	VEL	S			
				U\$06						SC03			COMPOSITE			
	FUEL TYPE		NMOG+NOx (g/mi)		CO PM (g/mi) (mg/mi			NMOG+NOx (g/mi)		CO NN (g/mi)		(g/mi) (g		PM (mg/mi)		
@ 4K	*	* CERT STD		*		*				*	*					
				*		*				*	*	r				
		CERT		*		*	1.	5		*	*	0	.0333	0.43	*	
@ UL	GASOLIN TIER3 E		D	*		*	6			*	*		.083	4.2	*	
		В	IN									C	.060			
		WHOLE	VEHI	CLE EV	APORA	TIVE EMI	SSION	STAND	ARD	S AND C	ERTIFICA	TIO	N LEVEL	.S		
					WI	HOLE VE	HICLE	EVAPO	RATI	VE TEST	ING				1	
PAWILY		. TYPE			/test) @ l		2DHS (g/test)		@ UL		RL (g/mi) @ Ul		) UL			
				CEI	RT S	STD	FEL	CERT		STD	FEL		CER	Т	STD	
LTYXR0130P72 GASO		LINE- 3 E10	10 10	0.1996 0.300 *		*	*	0.300 *		*		0.005 0.0		0.05		
(	DRVR / FU	EL ONL	Y / CAI	NISTER	BLEED	EVAPOR	RATIVE	EMISS	ION S	STANDA	RDS AND	CEF	RTIFICAT	ION LEV	ELS	
											& CANIS					
	ORATIVE MILY	ORVR (g/gallon) @ UL		FUEL TYPE			3DHS RIG T (g/test) @		2DHS RIG (g/test) @							
		FUEL '	TYPE	CERT	STD			CER	T	STD	CERT		STD	CERT	STD	

GASOLINE-

LEV3 E10

0.0121

0.020



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EFFECTIV	E LEAK DIAMETER STANDA	RD AND CERTIFICATION L	EVEL (INCHES)
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD
LTYXR0130P72	LTYXR0130P72-001	•	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	ECS	OBD
TOYOTA	RAV4	LDT1	2.5	SA8	LTYXR0130P72	1	F
TOYOTA	RAV4	LDT2	2.5	SA8	LTYXR0130P72	1	F
TOYOTA	RAV4 AWD	LDT2	2.5	SA8	LTYXR0130P72	1	F
TOYOTA	RAV4 AWD LE	LDT2	2.5	SA8	LTYXR0130P72	1	F
TOYOTA	RAV4 AWD TRD OFFROAD	LDT2	2.5	SA8	LTYXR0130P72	1	F