

TOYOTA MOTOR CORPORATION

Executive Order: A-014-1071

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

Page 1 of 4

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 GROUP INFORMATION													
MODE	T	EST GROUP	VEHICLE CLASS(ES)			FUEL C	ATEGORY		FUEL TYPE				
2021	L MT	TYXV03.5P35		PC				ELECTRIC HICLE		GASOLINE			
	USEFU	L LIFE (miles)		VE	VEHICLE EMISSION CATEGOR				INTERIM / II	ITERI	ERMEDIATE IN-USE STD		
EXI	H/ORVR	EVAP			FTP SFTP			TP	FTP		SFTP		
15	50000	150000)	LEV3	SULEV30 LEV 3 COMPO			OMPOSITE	*		PM		
SPECIAL FEATURES & EXHAUST EMISSION CON SYSTEMS						L	OBD		BD STATUS		ENGINE DISPLACEMEN		
1 DFI, SFI, EGR, EGRC, 2WR-HO2S(2), 2								FULL	ALL MODELS				
*	* *							ARTIAL	RTIAL *		3.5		
* *							1	TIAL WITH FINES	*				
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION													
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR									VAP EMISSION STD SPECIAL FEATI				
MTYXR0170E72 LEV 3 OPTION2								PC			HCT		
					EMISSION C	REDIT	INFO	RMATION					
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON ZERO-EVAP							ZEV	T NMOG CPENIT FOR NOR !			OPTIONAL EXH. STD FOR WORK TRUCKS		
N N								N			N		
NMOG AND FLEET AVERAGE INFORMATION													
NMOG RAF	THE PART OF THE PROPERTY OF TH				0-3750		N) LDT (3751 LVW-8500 MDV (10,001			MOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)			
*	*	1.10		0.003	0.058				0.065		*		

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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Executive Order: A-014-1071

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

Page 2 of 4

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 25th day of March 2020.

Allen Lyons, Chief

Emissions Certification and Compliance Division



MTYXR0170E72 | TIER3 E10 | 0.009 | 0.20 PREM

TOYOTA MOTOR CORPORATION

Executive Order: A-014-1071 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 4

ATTACHMENT

	= 1																	
	EXH	AUS	TAN) EV	APO	RATI	/E EMIS	SSION	STA	NDAF	DS AN	D CERT	IFIC	CATIO	N LE	VEL	S	
		EXH										(FTP, HW						
	FUI	EL TY		CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: non-CH4 H monoxide; NOx: oxides of nitrogen; HCHO: formaldehyde; PM: particulate matter; R. adjustment factor; 2DHS/3DHS [g HC/test]: 2/3 days diurnal+hot-soak; RL [g HC/mi] ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: gram; mg: mill 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: supplemental										RAF: ni]: rur	reacti	ivity		
				NMOG÷NOx (g/mi)			CO (g/mi)			NOx (g/mi)		1	HCI mg/			PM (g/mi)		
				CER	RT	STD	CERT	S	ΓD	CERT	STE	CER	Т	STD CE		ERT STD		
FTP@5		*		*		*	*	,	łr	*	*	*		*			*	
FTP@	GASOLINE- TP@UL TIER3 E10 PREM		10	0.01	.97	0.030	0.35	1.	. 0	*	*	*		4	0.0	0002	0.003	
50°F @	4K	*		*		*	*	,		*	*	*	\top	*				
FILE							DE			N	MOG+N	Ox (g/mi)			CO (g/mi)			
				FUEL TYPE						С	ERT	STD		CE	RT		STD	
HWFE	T @ 50K			*							* *							
HWFET @ UL					GASOLINE-TIER3 E10 PREM						0055	055 0.030						
20°F @ 50K COLD CO E10 PREMIUM C							ASOLINE (TIER3)									10.0		
		-	S	FTP	EXHA	UST EN		STAND	ARDS	AND C			VEL					
FUEL TYPE				NMOG+NOx CO PM						SC03 NMOG+NOx CO N			NIBA	MOG+NOx (CO PM	
				(g/mi)			(g/mi) (mg/mi)				(g/mi)		(g/mi)			g/mi)	(mg/mi)	
@ 4K		* CER			*		*				*	(g/mi) *						
	STI		STD		*		*			*		*						
		GASOLINE- TIER3 E10 STE PREM BIN			*		* 0.4		. 4	*		*	0.0279		0	. 69	*	
@ UL	TIER3			*		*		6		*	*	0.077			4.2	*		
				0.040														
		WH	OLE V	EHIC	LE EV				-			ERTIFICA	TIO	N LEVE	LS			
						W	HOLE VE	HICLE	EVAP	ORATI	VE TEST	ING						
	ORATIVE MILY	FUEL TYPE		/PE	PE 3DHS (g		/test) @ UL			2DHS (g/test)		@ UL		RL (g		g/mi) @ UL		
					CERT S		STD	FEL	CEI	RT	STD	FEL		CE	RT	_	STD	
terreal structurescal ten is sentiment and p			IER3 : PREM	E10	1 1		.300 *		0.23	0.300		*	0.006		06	0.05		
C	RVR / FL	JEL C	ONLY /	CANI	STER	BLEE	EVAPO	RATIV	EEMIS	SION	STANDA	RDS AND	CEF	RTIFICA	TION	LEVE	LS	
			001:-	, , .				FUEL ONLY EVAP & CANISTER BL										
	ORATIVE MILY			(g/gallon) @ UL			FUEL TYPE		(9	3DHS RIG TEST (g/test) @ UL		(g/tes	2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K			
		-	EL TYF	_	ERT	STD	-		CE	RT	STD	CERT	:	STD	CEF	T	STD	
MWVVD0170F70		1	SOLINE		000	0 20	1 .		1 ,	.				.			_	



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Executive Order: A-014-1071

New Passenger Cars, Light-Duty Trucks and

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Page 4 of 4

EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)										
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD							
MTYXR0170E72	MTYXR0170E72-001	*	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; 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

2021 MODEL YEAR: VEHICLE MODELS INFORMATION

-	MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
	LEXUS	LC 500H	PC	3.5	SCV10	MTYXR0170E72	1	F