

TOYOTA MOTOR CORPORATION

Executive Order: A-014-1036-1
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-14-012;

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	RMATIC	ON					
MODE YEAR	- 1 T	TEST GROUP		VEHICLE CLASS(ES)			FUEL CATEGORY			FUEL TYPE		
2020	LTYXV05.0M5A			PC DE			DEDICATED SINGLE FUEL VEHICLE			GASOLINE		
USEFUL LIFE (miles)				VEHICLE EMISSION CATEGOR			RY INTERIM / INTERMEDIATE IN-USE			MEDIATE IN-USE STD		
EXH/ORVR EVAP				FTP SF			TP FTP			SFTP		
150000 150000				LEV3 ULEV70	B ULEV70 LEV 3 COMPO			*		PM		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS							OBD STATUS			ENGINE DISPLACEMENT (L)		
1 2TWC(2), 2WR-HO2S, 2HO2S, DFI, SFI FULL *												
*	*						PARTIAL ALL MODELS			5.0		
*	* PARTIAL WITH * FINES											
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION												
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY							EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES		
LTYXR0165P12				LEV 2			PC			HCT		
LTYXR0180A72			LI	LEV 3 OPTION2			PC			HCT		
EMISSION CREDIT INFORMATION												
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR ZERO-EVA					I NMOG CREDITEOR DO			R	OPTIONAL EXH. STD FOR WORK TRUCKS			
N N							N			N		
NMOG AND FLEET AVERAGE INFORMATION												
NMOG RAF	CH4 RAF RATIO CH4 RATIO CH4 RATIO RATIO CHCHO/NMHC RATIO RATIO CHCHO/NMHC RAT			0-3750 L				0	NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)			
*	*	1.10	*	* 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.)



TOYOTA MOTOR CORPORATION

Executive Order: A-014-1036-1
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).

day of June 2019.

This Executive Order hereby cancels and supersedes Executive Order A-014-1036 dated February 26, 2019.

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

Allen Lyons, Chief

Emissions Compliance, Automotive Regulations and Science Division



LTYXR0180A72

TIER3 E10

PREM

0.1919

0.300

*

0.300

TOYOTA MOTOR CORPORATION

Executive Order: A-014-1036-1
New Passenger Cars, Light-Duty Trucks and
Medium-Duty Vehicles
Page 3 of 4

0.007

0.05

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 **FUEL TYPE** нсно NMOG+NOx CO NOx PM (g/mi) (g/mi) (mg/mi) (g/mi) (g/mi) **CERT** STD CERT STD CERT STD CERT **CERT** STD STD FTP@50K * GASOLINE-FTP@UL TIER3 E10 0.0230 0.070 0.10 1.7 0.0004 0.003 PREM 50°F @4K * * * NMOG+NOx (g/mi) CO (g/mi) **FUEL TYPE** CERT STD **CERT** STD HWFET @ 50K GASOLINE-TIER3 E10 PREM 0.0030 0.070 HWFET @ UL COLD CO E10 PREMIUM GASOLINE (TIER3) 20°F @ 50K 1.48 10.0 SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS **US06** SC03 COMPOSITE **FUEL TYPE** NMOG+NOx CO PM NMOG+NOx CO NMOG+NOx PM CO (g/mi) (g/mi) (mg/mi) (g/mi) (g/mi) (g/mi) (g/mi) (mg/mi) CERT @ 4K * STD * * * * CERT * * 0.0140 0.55 * 0.6 GASOLINE-0.083 @UL TIER3 E10 STD 6 4.2 PREM 0.080 WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS WHOLE VEHICLE EVAPORATIVE TESTING RL (g/mi) @ UL **EVAPORATIVE FUEL TYPE** 3DHS (g/test) @ UL 2DHS (g/test) @ UL **FAMILY** CERT STD FEL **CERT** STD FEL CERT STD GASOLINE -TIER 2 0.005 0.257 0.50 0.65 0.05 LTYXR0165P12 UNLEADED GASOLINE-



LTYXR0180A72

TOYOTA MOTOR CORPORATION

Executive Order: A-014-1036-1 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 4 of 4

ORVR / FU	EL ONLY / CA	NISTER	BLEED	EVAPORATIVE	EMISSION	STANDA	RDS AND	CERTIFIC	ATION LEV	ELS		
				FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE	3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K			
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD		
LTYXR0180A72	GASOLINE- TIER3 E10 PREM	0.005	0.20	GASOLINE- LEV3 E10 PREM	*	*	*	*	0.0067	0.020		
LTYXR0165P12	GASOLINE - TIER 2 UNLEADED	0.014	0.20	*	*	*	*	*	*	*		

EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES) STD CERT **EVAPORATIVE FAMILY LEAK FAMILY** KTYXR0180A72-001 0.02

: 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; 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; 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	OBD			
LEXUS	LC 500	PC	5.0	SA10	LTYXR0180A72	1	P			
LEXUS	RC F	PC	5.0	SA8	LTYXR0165P12	1	P			