

# TOYOTA MOTOR CORPORATION

Executive Order: A-014-1021

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-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 GR	OUP IN	FORM	ATION				
MODEL YEAR TEST GROUP			VEHICI	VEHICLE CLASS(ES)				ATEGORY	FUEL TYPE		
2019	KT	YXV02.0K6A		PC				SINGLE FUEL	GASOLINE		
	USEFUL	LIFE (miles)	VEH	ICLE EMIS	SION C	ATEG	ORY	INTERIM / INT	ERMEDIATE IN-USE STD		
EXH	/ORVR	EVAP		FTP			P	FTP	SFTP		
15	0000	150000	LEV3	ULEV125 LEV 3 CO		3 COM	POSITE	*	*		
SPE	CIAL FE	ATURES & EXI	AUST EMISSIC	ON CONTRO	DL		OBD ST	ratus	ENGINE DISPLACEMENT		
1	DFI,	SFI, WR-HO2S	TWC (2) , HO	25, TC, C	AC	FULL		ALL MODELS			
*			*			PA	RTIAL	*	2.0		
*			*			PARTIAL WITH *					
		EV	APORATIVE &	REFUELING	G (EVA	PIORV	R) FAMILY	INFORMATION			
EVA	P / ORV	RFAMILY	EVAPORATIVE	STD CATE	GORY			SSION STD CLASS	SPECIAL FEATURES		
K	TYXR01	.65P12	L	EV 2			P	С	HCT		
		****		EMISSION	REDIT	INFO	RMATION				
	EDIT FO	X FLEET AVE. OR EXTENDED RRANTY		EDIT FOR I	DIT FOR NON-PZEV ERO-EVAP			REDIT FOR DOR	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N		N		. N			N		
			NMOG	AND FLEE	TAVE	RAGE	INFORMAT	TION			
NMOG RAF	I NIMIC VC=/NIMIHIC			MHC PC+LDT (0-3750 (g/mi)			LDT (	+NOX FLEET ST (3751 LVW-8500 R) + MDPV (g/mi)	NMOG+NOX FLEET STE MDV (10,001-14,000 GVWR) (g/mi)		
*	*	1.10	0.013		0.072	0.083			*		

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 27 day of August 2018.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division



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### **ATTACHMENT**

	E	XHAL	JST .	AND	EVAI	PORAT	IVE EMI	SSION	STAN	IDARI	OS ANI	O CERT	IFIC	ATION	LEV	ELS		
		E	XHA	UST E	MISSI	ON STA	NDARDS A	ND CER	TIFICA	ATION I	EVELS	(FTP, HW	/FET	, 50°F, 20	°F)			
		FUEL	TYP	me ad OI 10	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													
						G+NOx g/mi)	1	CO (g/mi)		NOx (g/mi)			HCH (mg/r		PM (g/m			
					CERT	STI	CER	T ST	D	CERT	STD	CER	т	STD	CE	RT	STD	
FTP@5	0K	*			*	*	*	*	-	*	*	*			*		*	
FTP@l	JL	GASOI LEV3		- 1	.0623	0.12	25 0.5	6 2.	1	*	*	*		4		0.01		
50°F @	4K	1	ŧ		*	*	*	*	-	*	*	*	$\neg$	*				
				· · · · ·	FUEL TYPE						NMOG+NOx (g/n					CO (g/mi)		
					FOEL TIPE					CERT STD			CERT		STD			
HWFET @ 50K					*					* *								
HWFE	HWFET @ UL			G	GASOLINE-LEV3 E10 PREM					0.0	0.0339 0.125		5					
20°F	20°F @ 50K G			GASC	SOLINE-COLD CO HIGH OCTANE									1.97		10.0		
				SF	TP E	(HAUST	EMISSION	STAND	ARDS	AND C	ERTIFIC	ATION L	EVEL	.S				
					US06						SC03	3			MPO	SITE		
	FUI	EL TYI	L TYPE			G+NOx	1		PM		G+NOx	CO	ŀ	OG+NOx		CO	PM	
					(	g/mi)	(g/mi)	(mg	g/mi)	(g.	/mi)	(g/mi)		(g/mi)	(g	/mi)	(mg/mi)	
@ 4K		*		CERT		*	*				*	*						
				STD		*	*				*	*						
		CEF		CERT		*	*		*		*	*		.0594	0	.76	*	
@ UL	@ UL LEV3 E		E10 STD			*	*		*		*			0.090		1.2	*	
		BII		BIN										0.080				
			WHO	LE VE	HICLI	E EVAPO	DRATIVE E	MISSIO	N STAI	NDARD	SAND	CERTIFIC	ATIC	N LEVEL	S			
					WHOLE VEHICLE EVAP					ORATI	VE TES							
EVAP FA	ORA MIL		) FIIFI I		TYPE 3DHS (g/test)			@ UL		2DHS (g/test) (		) @ UL	@ UL		RL (g/mi) @ UL			
						CERT	STD	FEL	CE	RT	RT STD		FEL CER		T	STD		
KTYXF	2016	5P12	ı	SOLIN TIER	- 1	0.257	0.50		,		0.65	*		0.00	)5		0.05	



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ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS												
				FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/g	gallon) @	) UL	FUEL TYPE		IG TEST ) @ UL		RIG TEST st) @ UL	BLEED CANISTER TEST (g/test) @ 4K			
	FUEL TYPE	CERT	STD		CERT	STD	CERT STD		CERT	STD		
KTYXR0165P12	GASOLINE - TIER 2 UNLEADED	0.014	0.20	*	*	*	*	*	*	*		
1	EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)											
EVAPORATIVE FAMILY LEAK FAMIL			_Y	CE	RT		STD					
* *			*		1			*				

to not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: LDT<6000#GWWR,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

### 2019 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
LEXUS	GS 300	PC	2.0	SA8	KTYXR0165P12	1	F
LEXUS	GS 300 F SPORT	PC	2.0	SA8	KTYXR0165P12	1	F