## California Environmental Protection Agency

**O** Air Resources Board

TOYOTA MOTOR CORPORATION

Executive Order: A-014-0952

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

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Pursuant to the authority vested in the 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: 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	OUP IN	FORMAT	ION					
MODE	_ , _ , ,	EST G	ROUP	VEHICLE CLASS(ES)			FUEL CATEGORY			ORY	FUEL TYPE		
2017	нт	YXV01	.8P35	PC			PLUG-IN HYBRID ELECTRIC VEHICLE				GASOLINE		
USEFUL LIFE (miles)					VEHICLE EMISSION CATEGOR			RY INTERIM / INTE			ERMEDIA	RMEDIATE IN-USE STD	
EXH/ORVR EVA			EVAP	FTP			SFTP		FTP		SFTP		
150000 1500			150000	LE	V3 SULEV30	LEV	LEV 3 COMPOSITE		PM			PM	
SPECIAL FEATURES & EXHAUST EMISSION CONTRO SYSTEMS							OBD S		TATUS		ENGINE DISPLACEMENT (L)		
1	SFI,	SFI, EGR, EGRC, WR-HO2S, TWC(2), HO2S						FULL		MODELS			
*		*					PARTIAL			*		1.8	
*		*						PARTIAL WITH FINES		*			
1			EV	APORATIVE	& REFUELING	(EVA	P/ORVR)	FAMILY	INFO	RMATION			
EVAP / ORVR FAMILY EVAPORATIVE STD CATE							IDV		SSION STD E CLASS		SPECIAL FEATURES		
. н	TYXR01	30572		LEV	LEV 3 OPTION2			PC				HCT	
					EMISSION C	REDIT	INFORM	ATION		-		**************************************	
ALLOWANCE FOR TEST GROUP							NMOG CREDIT FO					T FOR OPTIONAL EXH	
BASELINE PZEV AT PZ				PZEV	TZEV		NON-PZEV ZERO-EV		VAP	DOR		TRUCKS	
* *				*	ALL MODELS		N			N		N	
				NM	OG AND FLEE	TAVE	RAGE IN	FORMAT	TION				
NMOG RAF	CH4 RAF	NAME OF STREET		HCHO/NMI RATIO	PC+LDT	NMOG+NOX FLE PC+LDT (0-3750 (g/mi)		LVW) LDT		+NOX FLEET STD (3751 LVW-8500 R) + MDPV (g/mi)		NMOG+NOX FLEET STD MDV (10001-14000 GVWR) (g/mi)	
*	*	1.10		*		0.086				101		*	

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.

## 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 NMOG+NOx and greenhouse gas Fleet Average (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

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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

day of September 2016.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

**EVAPORATIVE** 

**FAMILY** 

HTYXR0130J72

**FUEL TYPE** 

GASOLINE-

LEV3 E10

CERT

0.001

STD

0.20

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**BLEED CANISTER** 

TEST (g/test) @ 4K

STD

CERT

## 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** NMOG+NO<sub>X</sub> CO NOx HCHO PM (g/mi) (g/mi) (mg/mi) (g/mi) (g/mi) CERT CERT STD STD CERT STD CERT STD CERT STD \* \* FTP@50K TIER 3 E10 REGULAR 0.0179 0.030 0.003 0.12 1.0 0.0004 FTP@UL 4 GASOLINE \* \* \* \* \* 50°F @4K NMOG+NOx (g/mi) CO (g/mi) **FUEL TYPE** CERT STD CERT STD HWFET @ 50K 0.0060 TIER 3 E10 REGULAR GASOLINE 0.030 HWFET @ UL 20°F @ 50K COLD CO E10 REGULAR GASOLINE (TIER 3) 0.59 10.0 SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS **US06** SC03 COMPOSITE NMOG+NOx NMOG+NO<sub>x</sub> **FUEL TYPE** CO PM NMOG+NO<sub>X</sub> CO CO PM (g/mi) (mg/mi) (g/mi) (g/mi) (g/mi) (g/mi) (g/mi) (mg/mi) \* \* CERT @ 4K \* STD \* CERT \* 0.6 \* \* 0.0185 0.17 \* TIER 3 E10 @UL REGULAR STD 10 0 103 4 2 GASOLINE BIN 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 STD FEL CERT CERT CERT STD FEL STD GASOLINE-0.300 0.1350 0.300 0.003 HTYXR0130J72 0.1519 0.05 LEV3 E10 ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS **FUEL ONLY EVAP & CANISTER BLEED** ORVR (g/gallon) @ UL 3DHS RIG TEST 2DHS RIG TEST

(g/test) @ UL

STD

CERT

**FUEL TYPE** 

(g/test) @ UL

STD

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to 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: PZEV: partial ZEV; AT PZEV: advanced technology PZEV; 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; 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

## 2017 MODEL YEAR: VEHICLE MODELS INFORMATION **ENGINE EVAPORATIVE** EXH TRANS TYPE OBD **PZEV TYPE** MAKE MODEL VEH CLASS FAMILY ECS (L) HTYXR0130J72 TOYOTA PRIUS PRIME PC 1.8 CV1 1 F TZEV