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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-377 Relating to Certification of New Motor Vehicles

TOYOTA MOTOR CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 2000 model-year Toyota Motor Corporation exhaust emission control systems are certified as described below for lightduty trucks:

Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type: Gasoline

Engine Family: YTYXT03.4FFR Displacement: 3.4 Liters (206 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Three Way Catalytic Converters (two) Air Fuel Ratio Sensor Heated Oxygen Sensor Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The non-methane organic gases (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) LEV certification exhaust emission standards for this engine family in grams per mile are:

Loaded Vehicle <u>Weight (lbs.)</u>	Miles	NMOG	<u></u>	<u>N0x</u>	НСНО	<u>CO (20°F)</u>
3751-5750	50,000	0.100	4.4	0.4	0.018	12.5
	100,000	0.130	5.5	0.5	0.023	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.94

The certification exhaust emission values set forth for non-methane organic gases (NMOG) reflect application of a 0.94 RAF for 2000 model-year LEVs. The LEV certification exhaust emission values for this engine family in grams per mile are:

Loaded Vehicle Weight (lbs.)	<u>Miles</u>	NMOG		<u>NOx</u>	НСНО	<u>CO (20°F)</u>
3751-5750	50,000 100,000	0.060 0.066	0.8	0.2 0.3	0.001 0.002	5.5 n/a

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BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average NMOG exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty rucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control and⁵ Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.2) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

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BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 12^{μ} day of December 1998

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R. B. Summerfield, Chief Mobile Source Operations Division

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2000 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: <u>TOYOTA</u> Exh Eng Fam: YTYXT03.4FFR Evap Fam: YTYXE0145AE0 All Eng Codes in Eng Fam: CA _x_ 49S ___ 50S ___ AB965 ___ , ORVR: YES ___ NO <u>x</u> CA Tier-1 ____ LEV ___ ULEV ___ SULEV ___, US EPA Tier-1 ____ Exh Std:

 Veh Class(es):
 PC _____LDT1 ____LDT2 _x ___MDV1 ____ MDV2 ____MDV3 ____MDV4 ____ MDV5 ____

 Single Cert Std for Multi-Class Eng Fam:
 N/A _____ (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)

Dedicated x Flex-Fuel ____ Fuel Type(s): Dual-Fuel ____ Bi-Fuel ___ Gasoline _x Diesel ___ CNG ___ LNG _____ LPG ____ M85 ___ Other (specify) Exh Emiss Test Fuel(s): Indo ____ CBG _x___ CNG ___ LPG _____ M85 ____ Other (specify) ____ 13 CCR 2282 ____ Diesel: 40 CFR 86.113-90 ____ 40 CFR 86.113-94 Evaporative Emission Test Procedure: California ____ Federai _x! Service Accum: Std AMA ___ Mod AMA ____ Mfr ADP x Other (specify) NMOG Test Procedure: Std x Equiv ___ N/A ____ R/L Test Proc: SHED _X_ Pt Source __ Engine Configuration: V-6 Displacement: 3.4 Liters 206 Cubic Inches Valves per Cylinder: <u>4</u> Rated HP : 190@4800 RPM Front x Mid Rear Drive: FWD RWD x*2 4WD-FT Enginc: 4WD-PT x*3 Exhaust ECS (c.g., MFI, EGR, TC, CAC): _____ SFI, A/F S(*1), TWC(2), HO2S (use abbreviations per SAE J1930 JUN93)

Note *1 : A/F S means Air-fuel ratio sensor. Note *2 : for TOYOTA TUNDRA 2WD. Note *3 : for TOYOTA TUNDRA 4WD.

Engine Code Trans. ETW (also list (M5, ar Ignition Catalytic CA/49S/ Vehicle Models A4, Test DPA or (ECM/PCM) EGR system Converter 50ST (if coded see attachment) Wt etc.) RLHP Part No. Part No. Part No. 1 VCK40L-ARMSKA M5 4750 15.6/15.9/16.0 89661-0C070 N/A Q11 VCK40L-TRMSKA 4500 2 VCK40L-ARMSKA 4750 17.0/17.3/17.4 U93 VCK40L-TRMSKA 4500 3 VCK40L-ARSSKA L4 15.6/15.9/16.0 4750 89661-0C080 VCK40L-TRSSKA 4500 4 VCK4-0L-ARSSKA 4750 17.0/17.3/17.4 VCK40L-TRSSKA 4500 5 VCK30L-ARMSKA M5 4500 14.3/15.1 89661-0C050 VCK30L-TRMDKA 4250 VCK30L-ARMSKA 6 4500 15.7/16.5 VCK30L-TRMDKA 4250 7 VCK30L-ARSSKA LA 4500 14.3/15.1 89661-0C060 VCK30L-TRSDKA 4250 8 VCK30L-ARSLKA 4500 15.7/16.5 VCK30L-ARSSKA VCK30L-TRSDKA 4250

Comments : Please refer to manufacturer's HP list for correct dyno test HP setting based on model and equipment.

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2000 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

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Manufacture <u>TOYOTA</u> Exh. 1	Ing. Fam <u>YTYXT03.4FFR</u>	Evap. Fam <u>YTYXE0145AE0</u>
VEHICLE MODELS:	ł	
TOYOTA TUNDRA 2WD	TOYOTA TUNDRA 4WD	

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VCK30L-ARMSKA	VCK40L-ARMSKA
VCK30L-ARSLKA	VCK40L-ARSLKA
VCK30L-ARSSKA	VCK40L-ARSSKA
VCK30L-TRMDKA	VCK40L-TRMSKA
VCK30L-TRSDKA	VCK40L-TRSSKA

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