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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-359 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 passenger cars:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

<u>Engine Family</u>: YTYXV01.8DDB <u>Displacement</u>: 1.8 Liters (110 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Three Way Catalytic Converter Heated Oxygen Sensors (two) Sequential Multiport Fuel Injection

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

Miles	Non-Methane Organic Gases	Carbon <u>Monoxide</u>	Oxides of <u>Nitrogen</u>	<u>Formaldehyde</u>	Carbon <u>Monoxide (20°F)</u>
50,000	0.125	3.4	0.4	0.015	10.0
100,000	0.156	4.2		0.018	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for non-methane organic gases (NMOG) reflect application of a 0.98 RAF for 2000 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

Miles	Non-Methane Organic Gases	Carbon <u>Monoxide</u>	Oxides of <u>Nitrogen</u>	<u>Formaldehyde</u>	Carbon <u>Monoxide (20°F)</u>
50,000 100,000	0.083	1.5 1.9	0.2	0.001 0.001	2.5 n/a

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 Trucks, 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 vehicle manufacturer is certifying the listed vehicle models to the "California Refueling Emission Standards and Test Procedures for 1998 and Subsequent Model Motor Vehicles," Title 13, California Code of Regulations, Section 1978, 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 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."

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

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BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

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 $\frac{16}{16}$ day of August 1999.

R. B. Súmmerfield, Chief Mobile Source Operations Division

17.11.00

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

Manufacturer: TOYOTA Exh Eng Fam: ___YTYXV01.8DDB Evap Fam: YTYXR0115AK1 All Eng Codes in Eng Fam: CA 50S <u>x</u> 49S ____ AB965 _____, ORVR: YES <u>x</u> NO LEV ____ ULEV ___ SULEV ___ , Exh Std: CA Tier-1 TLEV x US EPA Tier-1 Veh Class(es): PC <u>x</u> LDT1 __ LDT2 __ MDV1 __ MDV2 __ MDV3 __ MDV4 __ MDV5 Single Cert Std for Multi-Class Eng Fam: <u>N/A</u> (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4) Fuel Type(s): Dedicated <u>x</u> Dual-Fuel _____ Bi-Fuel ____ Gasoline x Flex-Fuel Diesel LNG ____ CNG LPG ____ M85 ____ Other (specify) Indo ____ Exh Emiss Test Fuel(s): CNG LPG M85 Other (specify) CBG _x 40 CFR 86.113-90 ____ Diesel: 13 CCR 2282 40 CFR 86.113-94 ____ Evaporative Emission Test Procedure: California 🔄 Federal <u>x</u> Service Accum Std AMA Mod AMA ____ Mfr ADP <u>x</u> Other (specify) ____ Equiv ____ NMOG Test Procedure: N/A ____ Std <u>x</u> R/L Test Proc: SHED x Pt Source Engine Configuration _____I-4___ Displacement: 1.8 Liters 109.5 Cubic Inches Valves per Cylinder: 4 Rated HP1: 140@6,400 RPM Mid ____ Rear ___ Drive: FWD x Engine: Front x WD 4WD-FT 4WD-PT Exhaust ECS (e.g., MFI, EGR, TC, CAC): SFI,HO2S(2),TWC

(use abbreviations per SAE J1930 JUN93)

	Vehicle Models (if coded see attachment)	Trans. (M5, A4, etc.)	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR system Part No.	Catalytic Converter Part No.
1	ZZT230L-BLMSHA	M5	2750	7.0	89666-20030*1 89666-20031*2	N/A	X02
2	ZZT230L-BLPSHA	L4 .	2875	7.0	89666-20040*1 89666-20041*2		

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

*1 : Before Running Change 00-TR-20 Note

*2 : After Running Change 00-TR-20

VEHICLE MODELS:

CELICA ZZT230L-BLMSHA ZZT230L-BLPSHA