#### State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-14-372 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 light-duty trucks:

Emission Standard Category: Low-Emission Vehicle (LEV)

<u>Fuel Type</u>: Gasoline

Engine Family: YTYXT02.4FFJ Displacement: 2.4 Liters (149 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 Weight (lbs.)	Miles	NMOG	<u></u>	<u>N0x</u>	<u>нсно</u>	CO (20°F)	
0-3750	0-3750 50,000 100,000		3.4 4.2	0.2	0.015 <b>0.0</b> 18	10.0 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.)	Miles NMOG		<u>co</u>	NOX O HCHO	CO (20°F)
0-3750	50,000 100,000	0.050 0.056	0.7	0.2 0.001 0.2 0.001	4.8 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 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 and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

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 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 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 do day of August 1999.

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

Manufac	turer: TOYOTA	Exh Eng	Fam:	YTYXT02.4F	<u>FJ</u> Eva <sub>l</sub>	Fam: <u>Y</u>	TYXE0095AE0
All Eng (	Codes in Eng Fam: CA	49S		50S x	AB965	$ORVR \cdot 7$	YFS NO
Exh Std:	CA Tier-1 TLE	·V	LE	V x ULEV	/ SULEV	_	US EPA Tier-1
Veh Clas	is(es):	. LDT2		MDV1	MDV2 MDV3	MDV	4 MDVs
Single Co	ert Std for Multi-Class Eng Fa	m:	N/A	(specify: N	/A. LDT1. MDV1.	MDV2 MI	DV3 MDV4\
ruel Typ	e(s): Dedicated x	Flex-F	uel	Dual-Fue	l Bi-Fuel	Gasolini	e x Diesel
	UNG LN	G	LP	G M8:	Other (s	necify)	
Exh Emis	ss Test Fuel(s): Indo	CBG	<u>X</u>	CNG I	_PG M85	_ Other (s	pecify)
	Diesel:	13 C	CR 228	2 <u> </u>	CFR 86.113-90 _	_ 40	CFR 86.113-94
Diesel: 13 CCR 2282 40 CFR 86.113-90 40 CFR 86.113-94 Evaporative Emission Test Procedure: California Federal _x							
Service Accum: Std AMA Mod AMA Mfr ADP v Other (specify)							
NMOG 1	est Procedure: N/A	Std	<u>X</u>	Equiv	R/L Test Proc	: SHED _;	x_ Pt Source _
NMOG Test Procedure: N/A Std x Equiv R/L Test Proc: SHED x Pt Source Engine Configuration: 1-4 Displacement: 2.4 Liters 148.8 Cubic Inches							
Valves per Cylinder:         4         Rated HP1:         142@5000         RPM           Engine:         Front x         Mid Rear Drive:         FWD RWD x         4WD-FT 4WD-PT							
Engine: Front x Mid Rear Drive: FWD RWD x 4WD-FT 4WD-PT							
Exhaust ECS (e.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.							
Engine							
Code		Trans.	ETW				
also list	·	(M5,	or		Ignition	EGR	Catalytic
CA/49S/	Vehicle Models	À4,	Test	DPA or	(ECM/PCM)	system	Converter
50ST	(if coded see attachment)	etc.)	Wt	RLHP	Part No.	Part No.	Part No.
1	RZN140L-TRMDKAB	M5	3000	12.0/10.9	89661-04600	N/A	Front: Q11
	RZN150L-CRMDKAB	1	3250	10.9	100001-04000	IVA	Rear: U69
2	RZN140L-TRMDKAB	\ / E	<u> </u>		-		1.001
2	RZN140L-TRMDRAB	M5	3000	13.2/12.0			
		1	3125				
	RZN150L-CRMDKAB		<u> </u>	12.0	·	·.	.
3	RZN140L-TRSDKAB	A4	3000	12.0/10.9	89661-04610		
		1	3125			1	-

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

10.9

12.0

13.2/12.0

3250

3125

3250

A4

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RZN150L-CRSDKAB

RZN140L-TRSDKAB

RZN150L-CRSDKAB

Issued: 07/01/99

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

Manufacturer: TOYOTA

Exh Eng Fam: <u>YTYXT02.4FFJ</u>

Evap Fam: <u>YTYXE0095AE0</u>

### **VEHICLE MODELS:**

TOYOTA TACOMA 2WD

RZN140L-TRMDKAB RZN140L-TRSDKAB RZN150L-CRMDKAB

RZN150L-CRSDKAB

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