## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-14-361 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:

Exhaust Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type: Gasoline

Engine Family: YTYXV01.8FFD Displacement: 1.8 Liters (110 Cubic Inches)

**Exhaust Emission Control Systems and Special Features:** 

Dual Three Way Catalytic Converters
Three Way Catalytic Converter
Dual Heated Oxygen Sensors
Heated Oxygen Sensor
Sequential Multiport Fuel Injection

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

<u>Miles</u>	Non-Methane <u>Organic Gases</u>	Carbon <u>Monoxide</u>	Oxides of Nitrogen	<u>Formaldehyde</u>	Carbon Monoxide (20°F)
50,000	0.075	3.4	0.2	0.015	10.0
100,000	0.090	4.2	0.3	0.018	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 certification exhaust emission values for this engine family in grams per mile are:

Miles	Non-Methane Organic Gases	Carbon <u>Monoxide</u>	Oxides of Nitrogen	<u>Formaldehyde</u>	Carbon <u>Monoxide (20°F)</u>
50,000	0.038	1.0	0.1	0.0003	3.5
100,000	0.047	1.1	0.2	0.0004	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 set forth in Title 13, California Code of Regulations, Section 1960.1 ("California Exhaust Emission Standards and Test Procedures for 1988 Through 2000 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 an 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 NMOG debits incurred 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 through 2005 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 Through 2000 Model Motor Vehicles," and that 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 Through 2000 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 models also comply with the Board's high-altitude requirements and highway emission standards, and with the Inspection and Maintenance standards in place at the time of certification as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 Through 2000 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 Through 2000 Model Passengers Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "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 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 21 day of December 1999.

R. B. Summerfield, Chief

Mobile Source Operations Division

	2000 MODEL VE	4D +			2.0.# /	117-261
	PASSENGER CA	AK AIR RESC	)URCES DO.	n	Page	
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Fyh S	Std. CA	495	500	1.8FFD	Evan Fam: V	777 47
Living.	ng Codes in Eng Fam: CA Std: CA Tier-1	ri ev	. 30S <u>x</u>	AB965	Trap rain. Y	IYXRO115AKI
Veh (	ng Codes in Eng Fam: CA  Std: CA Tier-1  Class(es): PC x LDT1		LEV X II	1 EV	, ORVR: Y	(ES v No
Single	Cart State	LDT2	MDM	SUL	EV	TIC ED.
rsic	Ing Codes in Eng Fam: CA  Std: CA Tier-1  Class(es): PC x LDT1  Cert Std for Multi-Class Eng  Sype(s): Dedicated	Fam:	MDAI	$MDV_2$ $\lambda$	4DV2	US EPA Tier-1
ruei I	Class(es): PC x LDT1 Class (es): PC x LDT1 Cert Std for Multi-Class Eng ype(s): Dedicated x CNG miss Test Fuel(s): Indo	N/A	(specifi	/' N/A 1 DT1 1	$\frac{10}{10}$ $\frac{10}{10}$ $\frac{10}{10}$ MDV4	_ MDVs
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Eul P.	CNG	LNG	— Dual-,	Fuel Bi-Fi	iel Coort	73, MDV4)
EVII EI	miss l'est Fuel(s): Indo		-PG N	485	Casoline	X Diesel
	nido _	— CBG <u>-X</u>	CNG	7 DC	ler (specify)	- 10001
Evanor	Diesel:	13 CCR 2	202	LPG M8	35 Other (-	10.
Σ γαροι	alive Emission Test Procedur	. C.1.2		40 CFR 86 113-0	- Other (Sp.	ecity)
Service	ype(s): Dedicated x CNG  miss Test Fuel(s): Indo Diesel: ative Emission Test Procedur Accum: Std AMA Test Procedure: N/A Configuration I-4	Califo.	mia Fede	eral	<sup>™</sup> 40 C	ecify)
NMOG	Test Property	Mod Al	ΛΔ	iai X		- 00.113.94
Facility	Test Procedure: N/A _ Configuration	Std w	·"` <u>-</u>	Mfr ADP X	Other ( in )	
Engine	Configuration 1-4	_ Sid <u>X</u>	Equiv _	P/I T D	Curer (specify)	
YAIVENE	18F / Salina 3	<b>→</b> 131017101	'IDAM'.		· • • • • • • • • • • • • • • • • • • •	D =
Engine	Symuci. 4	•		1.8 Liters	100.5.0	ource
Engine.	Configuration I-4  Per Cylinder: $4$ Front Mid $x$ ECS (e.g., MFI, EGR, TC, C	Don-		Rated HPI: 1200	109.3 (	ubic Inches
Exhaust	ECS (e.g. MEL ECD TO	rear Dr.	ve: FWD	1100	<i>2</i> 0,400	DDA
	- (3.85, MIT, EGK, TC, C	AC):	SEI SUOSO -	WD $\underline{x}$	4WD-FT	RPM
•			511,2H02S,2TW	C,TWC.HO29	- · · ·	4WD-PT
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CA/49S/	Vehicle Models	1	1	In-in:		
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- 00 1	(if coded see attachment)	1	DPA or	(ECM/PCM)	ECD	Catalytic
1 7	7711/201 111	etc.) Wt	RLHP	Part No.	EGR system	Converter
- 1	~~ WOUL-AKMOUA		<b></b>	IT art No.	Da . Nr	1 = 2.11.01.01

Part No.

89661-17600

Part No.

N/A

Part No.

X05

Comments: Please refer to manufacturer's HP list for correct dyno test HP setting based on model and equipment. ZZ001

7.9

2625

MR2 ZZW30L-AKMQHA

M5

ZZW30L-AKMQHA

Page : 17.11-YTYXV01.8FFD-1

Issued: 11/12/99