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#### State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-14-319 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 1998 model-year Toyota Motor Corporation exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type: Gasoline

Engine Family: WTYXV02.2GXB <u>Displacement</u>: 2.2 Liters (132 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Sequential Multiport Fuel Injection Exhaust Gas Recirculation Air Fuel Ratio Sensor Warm Up Three Way Catalytic Converter Three Way Catalytic Converter Heated Oxygen Sensor

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

The LEV certification exhaust emission standards for this engine family in grams per mile are:

Miles	Non-Methane Organic Gas	Carbon <u>Monoxide</u>	Nitrogen Oxides	Formaldehyde	Carbon <u>Monoxide (20°F)</u>
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 gas (NMOG) reflect application of a  $0.94~\mathrm{RAF}$  for 1998 model-year LEVs. The LEV certification exhaust emission values for this engine family in grams per mile are:

Miles	Non-Methane Organic Gas	Carbon <u>Monoxide</u>	Nitrogen Oxides	<u>Formaldehyde</u>	Carbon <u>Monoxide (20<sup>0</sup>F)</u>
50,000	0.046	0.6	0.1	0.001	3.3
100,000	0.048	0.6	0.2	0.001	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 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 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.).

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."

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 23

23. day of July 1997.

R. B. Summerfield, Chief

Mobile Source Operations Division

1998 MODEL.	VEAR AID DESC	Um CEG DO 4 DO -	Page_1
PASSENGER	CADC HOUR D	OURCES BOARD SUPPLEM	ENTAL DATA SHEET
TOYOTA	Evh Eng Form	UTY TRUCKS AND MEDIL	M-DUTY VEHICLES

TOBEROER CARS, LIGHT-DUTY TRUCKS AND ACCOUNT OF THE PARTY
All Eng Codes in Eng Fam: CA x 498 508 AROCS  AND MEDIUM-DUTY VEHICLES  Evap Fam: WTYXR0135AK1
All Eng Codes in Eng Fam: CA × ASS FOR Evap Fam: WTYXR0135AK1
All Eng Codes in Eng Fam: CA x 49S 50S AB965 Evap Fam: WTYXR0135AK1  Exh Std: CA Tier-1 TLEV LEV x III EV
Exh Std: CA Tier-1 TLEV LEV x ULEV SULEV US EPA Tier-1 US EPA Tier-1 TDT2 MDV1
Veh Class(es): PC x LDT1 LDT2 MDV1 MDV2 MDV3 MDV4 MDV5  Single Cert Std for Multi-Class Eng Fam: N/A (specific N/A LDT1 MDV4 MDV5
Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)  Fuel Type(s): Dedicated x Flex-Fuel Dual-Fuel Pi Fuel
Fuel Type(s): Dedicated x Flex-Fuel (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)  CNG LNG LPG
CNG LNG LPG M85 Other (specify)  Exh Emiss Test Fuel(s): Indo CBG x CNG LPG M85
Exh Emiss Test Fuel(s): Indo CBG x CNG LPG M85 Other (specify)  Diesel: 13 CCR 2282 40 CFR 86 113 90
Diesel: 13 CCR 2282 40 CFR 86.113-90 40 CFR 86.113-94
Evaporative Emission Test Procedure: California Federal Federal
NMOG Test Procedure: N/A Std v Faunt Other (specify)
Engine Configuration: L-4 Pt Source
Valves per Cylinder: 4 132.0 Cubic Inches
Exhaust ECS (e.g. MFI EGR TC CAS) Drive: FWD x RWD 4WD-FT 4WD-PT
(use abbreviations per SAE J1930 JUN93)

Engine Code (also list CA/49S/ 50ST	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 Converte Part No.
<u> </u>	<del></del>	M5	3375	6.7	89661-06500	25620-74320	U03*2
. <u> </u>	SXV20L-CEMDKA		3375	7.4	89661-06550	23020-74320	U97+3
3	SXV20L-CEPDKA	L4	3375	6,7	89661-3T270	25(20 71220	-
	SXV20L-AEPGKA SXV20L-AEPNKA SXV20L-CEPDKA SXV20L-CEPGKA SXV20L-CEPNKA		3500 3375 3500	7.4	89661-3T290 89661-06510 89661-06560	25620-74330	

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

Note\*1 : A/F S means Air-Fuel ratio sensor.

\*2 : Maker; TOYOTA MOTOR CORPORATION

\*3 : Maker; TABC, Inc.

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ssued 06/01/97 Rev.3: 07/15/97

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1998 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: TOYOTA Exh Eng Fam: WTYXV02.2GXB Evap. Fam: WTYXR0135AK1

## VEHICLE MODELS:

# CAMRY

SXV20L-AEPGKA

SXV20L-AEPNKA

SXV20L-CEMDKA

SXV20L-CEPDKA

SXV20L-CEPGKA

SXV20L-CEPNKA

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