

File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-309
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 1997 model-year Toyota Motor Corporation exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

Engine Family: VTY2.4IHGKEK Displacement: 2.4 Liters (148.8 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

- Multiport Fuel Injection
- Exhaust Gas Recirculation
- Heated Oxygen Sensors (two)
- Three Way Catalytic Converter

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

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

<u>Loaded Vehicle Weight(lbs.)</u>	<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
0-3750	50,000	0.25	3.4	0.4	10.0
	100,000	0.31	4.2	0.6	n/a

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

<u>Loaded Vehicle Weight(lbs.)</u>	<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
0-3750	50,000	0.11	2.3	0.2	6.5
	100,000	0.14	3.0	0.3	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 non-methane organic gas (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 50,000-mile evaporative emission standards applicable to 1980 through 1994 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, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

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 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 "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

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 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.

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 12th day of August 1996.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1997 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: TOYOTA Exh Eng Fam: VTY2.4IHGKEK Evap Fam: VTY1047DYMB0
 All Eng Codes in Eng Fam: CA 49S 50S x AB965
 Exh Std: CA Tier-1 x TLEV LEV ULEV ZEV ; US EPA Tier-1 x
 Evap std: 50K x Useful Life with R/L In-Use Exh Std: Full In Use x Alt In Use
 Veh Class(es): PC LDT1 x LDT2 MDV1 MDV2 MDV3 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 Bi-Fuel Gasoline x Diesel
CNG LNG LPG M85 Other(specify) _____
 Emiss Test Fuel(s): Indo x Ph2 CNG LPG M85 Other(specify) _____
Diesel: 13CCR 2282 40 CFR 86.113-90 40 CFR 86.113-94
 Service Accum: Std AMA x Mod AMA Mfr ADP Other(specify) _____
 NMOG Test Procedure: N/A x Std Equiv R/L Test Proc: SHED Pt Source
 Hybrid: Type A B C , APU Cycle(e.g., Otto, Diesel, Turbine): _____
 Engine Configuration: I-4 Displacement: 2.4 / 148.8 / _____ Liters / _____ Cubic Inches
 Valves per Cylinder: 4 Rated HP: 142 @ 5,000 RPM
 Engine: Front x Mid Rear Drive: FWD RWD x 4WD-FT 4WD-PT
 Exhaust ECS(e.g., MFI, EGR, TC, CAC): MFI, EGR, HO2S(2), TWC

(use abbreviations per SAE J1930 SEP91)

Engine Code/ (also list CA/ 49S/ 50ST)	Vehicle Models (if coded see attachmt)	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	RZN140L-TRMDKAB RZN150L-CRMDKAB	M5	3000 3125	10.9, 12.0 10.9	89661-04240	25620-75030	E15
2	RZN140L-TRMDKAB RZN150L-CRMDKAB		3000 3125	10.9, 12.0 10.9			
3	RZN140L-TRMDKAB RZN150L-CRMDKAB		3000 3125	12.0, 13.2 12.0			
4	RZN140L-TRMDKAB RZN150L-CRMDKAB		3000 3125	12.0, 13.2 12.0			
5	RZN140L-TRSDKAB RZN150L-CRSDKAB	A4	3000 3125	10.9, 12.0 10.9	Before F/F 97-TF-1: 89661-04250 After F/F 97-TF-1: 89661-04251	25620-75050	
6	RZN140L-TRSDKAB RZN150L-CRSDKAB		3000 3125	10.9, 12.0 10.9			
7	RZN140L-TRSDKAB RZN150L-CRSDKAB		3000 3250	12.0, 13.2 12.0			
8	RZN140L-TRSDKAB RZN150L-CRSDKAB		3000 3250	12.0, 13.2 12.0			

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

17.11.00

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1997 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: TOYOTA Exh Eng Fam: VTY2.41HGKEK Evap Fam: VTY1047DYMB0

VEHICLE MODELS:

TOYOTA TACOMA 2WD
RZN140L-TRMDKAB RZN150L-CRMDKAB
-TRSDKAB -CRSDKAB