

File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-262
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 Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1995 model-year Toyota Motor Corporation exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

Engine Family: STY2.417G1GA Displacement: 2.4 Liters (144.4 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

- Multiport Fuel Injection
- Exhaust Gas Recirculation
- Pulsed Secondary Air Injection
- 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 (alternative in-use compliance standards in parentheses) 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>
0-3750	50,000	0.25 (0.32)	3.4 (5.2)	0.4 (n/a)
	100,000	0.31 (n/a)	4.2 (n/a)	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>
0-3750	50,000	0.15	1.3	0.1
	100,000	0.16	1.5	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 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, based on a separate compliance plan submitted by the vehicle manufacturer, the listed vehicle models are permitted alternative in-use compliance 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 the submitted alternative in-use compliance plan satisfies the requirement that a maximum of 60 percent of the manufacturer's projected sales of 1995 model-year California-certified passenger cars and light-duty trucks will be subject to alternative in-use compliance as stipulated in the above-referenced 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 "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 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 for 1988 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles with Three-Way Catalyst Systems and Feedback Control" (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models have been exempted from compliance with the "Malfunction and Diagnostic System Requirements-1994 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles and Engines" pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(2.0) 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 4th day of August, 1994.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: TOYOTA Engine Family: STY2,417G1GA
 Evaporative Family: STY1047DYM00 Evap Std: 50K_x Useful Life with R/L____
 Exh Std: Tier-0____ Tier-1_x TLEV____ LEV____ ULEV____ ZEV____; EPA Tier-0____ EPA Tier-1____
 Veh Class(es): PC____ LDT1_x LDT2____ MDV1____ MDV2____ MDV3____ MDV4____ MDV5____
 Single Cert Std for Multi-Class Eng Fam:____ (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)
 Exh Cert Fuel(s): Indo_x Ph2____ Diesel:13 CCR 2282____ or 40 CFR 86.113-90____ or -94____
 M85____ CNG____ LPG____ Other (specify)____
 Fuel Type(s): Dedicated_x Flex-Fuel____ Dual-Fuel____ Gasoline_x Diesel____ M85____
 CNG____ LNG____ LPG____ Other (specify)____
 Hybrid: Type A____ B____ C____, APU Cycle (e.g., Otto, Diesel, Turbine) Otto
 Engine Configuration: I-4 Displacement: 2.4 / Liters 144.4 / Cubic Inches
 Engine: Front_x Mid____ Rear____ Drive: FWD____ RWD_x 4WD-FT____ 4WD-PT____
 Exhaust ECS (eg., EGR, MFI, TC, CAC): MFI, EGR, PAIR, HO2S(2), TWC
 (use abbreviations per SAE J1930 SEP91)

Engine code (also list CA/49/50ST)	Vehicle Models (if coded see attachmt.)	Trans. Type: A/L-auto M-manual	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
1	RN80L-TRMDEA -TRMDEAB -TRMREA -TRMREAB	M5	3000	11.3	89661-35820	25620-35100	H97 *1 E11 *2
	RN90L-CRMDEA -CRMDEAB		3250				
2	RN80L-TRMDEA -TRMDEAB -TRMREA -TRMREAB		3000	11.3			
	RN90L-CRMDEA -CRMDEAB		3250				
3	RN80L-TRMDEA -TRMDEAB -TRMREA -TRMREAB		3000	12.4			
	RN90L-CRMDEA -CRMDEAB		3250				
4	RN80L-TRMDEA -TRMREA -TRMREAB -TRMDEAB		3000	12.4			
	RN90L-CRMDEA -CRMDEAB		3125 3250				

Engine code (also list CA/49/50ST)	Vehicle Models (if coded see attachmt.)	Trans. Type: A/L-auto M-manual	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
5	RN80L-TRSDEA -TRSDEAB	A4	3000	11.3	89661-35820	25620-35100	H97 *1 E11 *2
	RN90L-CRSDEA		3250				
6	RN80L-TRSDEA -TRSDEAB		3000	11.3			
	RN90L-CRSDEA		3250				
7	RN80L-TRSDEA -TRSDEAB		3000	12.4			
	RN90L-CRSDEA		3125				
8	RN80L-TRSDEA -TRSDEAB		3125	12.4			
	RN90L-CRSDEA		3250				

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

Note *1 : Maker : TABCO., LTD.

*2 : Maker : TOYOTA MOTOR CORPORATION.

VEHICLE MODELS :

<u>Truck 2WD</u>	
RN80L-TRMDEA	RN90L-CRMDEA
-TRMDEAB	-CRMDEAB
-TRMREA	-CRSDEA
-TRMREAB	
-TRSDEA	
-TRSDEAB	