

File

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-308  
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: VTY2.42HGKEK 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 Converters (two)
- Supercharger
- Charge Air Cooler

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:

| Loaded Vehicle Weight (lbs.) | Miles   | Non-Methane Hydrocarbons | Carbon Monoxide | Nitrogen Oxides | Carbon Monoxide (20°F) |
|------------------------------|---------|--------------------------|-----------------|-----------------|------------------------|
| 3751-5750                    | 50,000  | 0.32                     | 4.4             | 0.7             | 12.5                   |
|                              | 100,000 | 0.40                     | 5.5             | 0.97            | n/a                    |

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

| Loaded Vehicle Weight (lbs.) | Miles   | Non-Methane Hydrocarbons | Carbon Monoxide | Nitrogen Oxides | Carbon Monoxide (20°F) |
|------------------------------|---------|--------------------------|-----------------|-----------------|------------------------|
| 3751-5750                    | 50,000  | 0.14                     | 1.3             | 0.4             | 6.6                    |
|                              | 100,000 | 0.14                     | 1.5             | 0.46            | n/a                    |

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 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 "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.

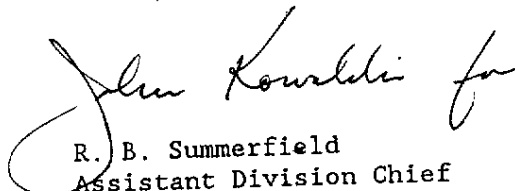
Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

TOYOTA MOTOR CORPORATION

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The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 14<sup>th</sup> day of August 1996.

  
R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

1997 MODEL-YEAR AIR RESOURCES BOARD ~~CERTIFICATION REVIEW SHEET~~  
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: TOYOTA Exh Eng Fam: VTY2.42HGKEK Evap Fam: VTY1095DYMB0  
 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 LDT2 x 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  
 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 Mod AMA x 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 / - Liters 148.8 / Cubic Inches  
 Valves per Cylinder: 4 Rated HP: 161 @ 5,000 RPM  
 Engine: Front x Mid Rear Drive: FWD RWD x\*1 4WD-FT x\*2 4WD-PT  
 Exhaust ECS(e.g., MFI, EGR, TC, CAC): MFI, EGR, HO2S(2), TWC(2), SC CAC  
 (use abbreviations per SAE J1930 SEP91)

| 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 converter Part No. |
|--|--|----------------------|----------------|--------------|--------------------------------|---------------------|------------------------------|
| 1                                      | TCR10L-RESDVA<br>TCR20L-RESDVA                                   | L4                   | 4,250<br>4,500 | 11.8<br>12.8 | 89661-28600*3<br>89661-28610*4 | 25620-76020         | C08                          |
| 2                                      | TCR10L-RESDVA<br>TCR10L-RFSGVA<br>TCR20L-RESDVA<br>TCR20L-RFSGVA |                      | 4,250<br>4,500 | 13.0<br>14.1 |                                |                     |                              |

|                        |  |
|------------------------|--|
| Super charger Part No. | (CHARGE AIR COOLER)<br>Inter cooler Part No. |
| SC14                   | 17940-76010                                  |

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

- Note \*1 : Applied to the truck line PREVIA.  
 \*2 : Applies to the truck line PREVIA All-trac.  
 \*3 : NIPPONDENSO CO., LTD.  
 \*4 : TOYOTA MOTOR CORPORATION.

VEHICLE MODELS :

|               |                        |
|---------------|------------------------|
| <u>PREVIA</u> | <u>PREVIA All-trac</u> |
| TCR10L-RESDVA | TCR20L-RESDVA          |
| TCR10L-RFSGVA | TCR20L-RFSGVA          |