File



State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-302
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 passenger cars:

Fuel Type: Gasoline

Engine Family: VTY3.0VJGKFK Displacement: 3.0 Liters (182.7 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Sequential Multiport Fuel Injection
Exhaust Gas Recirculation
Dual Heated Oxygen Sensors
Three Way Catalytic Converter
Heated Oxygen Sensor

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:

| Miles | Non-Methane Hydrocarbons | Carbon Monoxide | Nitrogen Oxides | Carbon Monoxide (20°F) |
|---|---|---|---|---|
| 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:

| Miles | Non-Methane Hydrocarbons | Carbon Monoxide | Nitrogen Oxides | Carbon Monoxide (20°F) |
|---|---|---|---|---|
| 50,000 | 0.16 | 1.6 | 0.2 | 4.5 |
| 100,000 | 0.18 | 1.7 | 0.2 | n/a |

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 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 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 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 "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 2nd day of July 1996.

Raphael Susnowitz

for R. B. Summerfield
Assistant Division Chief
Mobile Source Division

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: VTY3.0VJGKFK  Evap Fam: VTY1095AYME1
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 ___ Useful Life with R/L x In-Use Exh Std: Full In Use x Alt In Use ___
Veh Class(es): PC x LDT1 ___ 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 ___ Mod AMA ___ Mfr ADP x Other(specify) ___
NMOG Test Procedure: N/A x Std ___ Equiv ___ R/L Test Proc: SHED x Pt Source ___
Hybrid: Type A ___ B ___ C ___, APU Cycle(e.g., Otto, Diesel, Turbine): ___
Engine Configuration: V-6 Displacement: 3.0 / ___ Liters 182.7 / ___ Cubic Inches
Valves per Cylinder: 4 Rated HP: 194 @ 5,200 RPM *1
Rated HP: 200 @ 5,200 RPM *2
Engine: Front x Mid ___ Rear ___ Drive: FWD x RWD ___ 4WD-FT ___ 4WD-PT ___
Exhaust ECS(e.g., MFI, EGR, TC, CAC): SFI, EGR,2HO2S,TWC,HO2S
(use abbreviations per SAE J1930 SEP91)

Note *1 : Applied to carline ES300 and Camry.
*2 : Applied to carline Avalon, Camry and ES300.

| 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 | MCV20L-CEMDKA | M4 | 3,500 | 6.1<br>6.7 | 89661-06320 | 25620-20020 | U01*3<br>U99*4 |
| 2&2R1 | MCV20L-AEPGKA<br>MCV20L-AEPNKA<br>MCV20L-CEPGKA<br>MCV20L-CEPNKA<br>MCV20L-BTPGKA | L4 | 3,625<br>3,500<br>3,625 | 6.7<br><br><br>7.3<br>7.4 | 89661-06320*5<br>89661-06321*6<br>89661-33790*5<br>89661-33791*6<br>89661-06330*5<br>89661-06331*6<br>89661-33810*5<br>89661-33811*6 | | |
| 3&3R1 | MCX10L-AEPGKA<br>MCX10L-AEPNKA<br>MCX10L-AESGKA<br>MCX10L-AESNKA | L4 | 3,625 | 5.7 | 89661-07080*5<br>89661-07081*6<br>89661-07090*5<br>89661-07091*6 | | |

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

Note *3 : Maker ; TOYOTA MOTOR CORPORATION
*4 : Maker ; TABC, Inc.
*5 : Before Running Change 97-TR-10
*6 : After Running Change 97-TR-10

VEHICLE MODEL :

| Camry | ES300 | Avalon |
|---|---|---|
| MCV20L-CEMDKA | MCV20L-BTPGKA | MCX10L-AEPGKA |
| MCV20L-AEPGKA | | MCX10L-AEPNKA |
| MCV20L-AEPNKA | | MCX10L-AESGKA |
| MCV20L-CEPGKA | | MCX10L-AESNKA |
| MCV20L-CEPNKA | | |