State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-282-A
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 1996 model-year Toyota Motor Corporation exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: TTY2.2VJG2GK Displacement: 2.2 Liters (132 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Sequential Multiport Fuel Injection
Exhaust Gas Recirculation
Oxygen Sensors (two)
Three Way Catalytic Converters (two)

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

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

| Miles | Non-Methane Organic Gas | Carbon Monoxide | Nitrogen Oxides | Formaldehyde | Carbon Monoxide (20°F) |
|---|---|---|---|---|---|
| 50,000 | 0.125 | 3.4 | 0.4 | 0.015 | 10.0 |
| 100,000 | 0.156 | 4.2 | 0.6 | 0.018 | n/a |

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for non-methane organic gas (NMOG) reflect application of a 0.98 RAF for 1996 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

| Miles | Non-Methane Organic Gas | Carbon Monoxide | Nitrogen Oxides | Formaldehyde | Carbon Monoxide (20°F) |
|---|---|---|---|---|---|
| 50,000 | 0.073 | 1.2 | 0.1 | 0.001 | 5.4 |
| 100,000 | 0.079 | 1.4 | 0.1 | 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 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 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 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."

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 19th day of July 1995.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

# 1996 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
## PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: TOYOTA  Exh Eng Fam: TTY2.2VJG2GK  Evap Fam: TTY1073DYMA0
All Eng Codes in Eng Fam: CA x  49S  50S  AB965
Exh Std: CA Tier-1  TLEV x  LEV  ULEV  ZEV ; US EPA Tier-1
Evap std: 50K x  Useful Life with R/L  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  Ph2 x  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  Std x  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: 2.2 / Liters 132.0 / Cubic Inches
Valves per Cylinder: 4  Rated HP: 125 @ 5,400 RPM *1
Rated HP: 130 @ 5,400 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,O2S(2), TWC(2)
(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 RLH P | Ignition (ECM/PCM) Part No. | EGR System Part No. | Catalytic converter part No. |
|---|---|---|---|---|---|---|---|
| 1,1R1 & 1R2 | SXV10L-CCMDKA<br>SXV10L-AEMDKA<br>SXV10L-CEMDKA | M5 | 3375 | 6.3<br>6.6 | 89661-33750*3*5<br>89661-06280*4*5<br>89661-33751*3*6*7<br>89661-33752*8<br>89661-06281*4*6 | 25620-74300 | Front: S17<br>Rear: 06 |
| 2,2R1 & 2R2 | SXV10L-CCMDKA<br>SXV10L-AEMDKA<br>SXV10L-CEMDKA | | 3375 | 7.0<br>7.3 | | | |
| 5,5R1 & 5R2 | ST204L-BCMGKA<br>ST204L-BLMGKA<br>ST204L-BKMGKA | | 3000<br>3250 | 6.4<br>6.9 | 89661-2D430*5<br>89661-2D711*6*7<br>89661-2D712*8 | | Front: S18<br>Rear: 07 |
| 6,6R1 & 6R2 | ST204L-BCMGKA<br>ST204L-BLMGKA<br>ST204L-BKMGKA | | 3000<br>3250 | 7.0<br>7.6 | | | |
| 7 | ST204L-BCPGKA<br>ST204L-BLPGKA<br>ST204L-BKPGKA | L4 | 3000<br>3250 | 6.4<br>6.9 | 89661-2D440*5<br>89661-2D721*6 | 25620-74310 | Front: S18<br>Rear: 07 |
| 8 | ST204L-BCPGKA<br>ST204L-BLPGKA<br>ST204L-BKPGKA | | 3125<br>3375 | 7.0<br>7.6 | | | |

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

Note *1 : Applied to carline Camry.
*2 : Applied to carline Celica and Celica convertible.
*3 : Maker ; NIPPONDENSO CO.,LTD.
*4 : Maker ; NIPPONDENSO TENNESSEE, inc.
*5 : Before field fix of 96-TF-1
*6 : After field fix of 96-TF-1
*7 : Before field fix of 96-TF-6
*8 : After field fix of 96-TF-6

1996 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: TOYOTA Exh Eng Fam: TTY2.2VJG2GK Evap Fam: TTY1073DYMA0

VEHICLE MODELS:

| Camry | Celica | Celica convertible |
|---|---|---|
| SXV10L-AEMDKA | ST204L-BCMGKA | ST204L-BKMGKA |
| -CCMDKA | -BCPGKA | -BKPGKA |
| -CEMDKA | -BLMGKA | |
| | -BLPGKA | |

E.O.# A-14-282-A
Page 1 of 2

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## PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

2.55

Manufacturer: TOYOTA  Exh Eng Fam: TTY2.2VJG2GK  Evap Fam: TTY1073DYMA0
All Eng Codes in Eng Fam: CA x  49S  50S  AB965
Exh Std: CA Tier-1  TLEV x  LEV  ULEV  ZEV ;  US EPA Tier-1
Evap std: 50K x  Useful Life with R/L  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  Ph2 x  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  Std x  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: 2.2 / Liters 132.0 / Cubic Inches
Valves per Cylinder: 4
Rated HP: 125 @ 5,400 RPM *1
Rated HP: 130 @ 5,400 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,O2S(2), TWC(2)
(use abbreviations per SAE J1930 SEP91)

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| | | Sect/Page# |
|---|---|---|
| 1 | Authorized Representative | 01.02.00 |
| 2 | Fuel Specifications | 03.00.00 |
| 3 | Test Equipment | 04.00.00 |
| 4 | Test Procedure | 05.00.00 |
| 5 | Mileage Accumulation Route | 02.04.00 |
| 6 | Emission Warranty Statement | 17.10.00 |
| 7 | Maint: Cert/Req'd/Recm'd | 06.00.00 |
| 8 | Emiss Label/Vac Hose Diag | 07.00.00 |
| 9 | Evap Control System | 19.00.00 |
| 10 | Engine Parameters | 20.01.00 |
| 11 | Fuel System | 08.01.00.00 |
| 12 | Iginition System | 08.01.00.00 |
| 13 | Exhaust Control System | 20.02.00 |
| 14 | Proj Sales(LDT/MDV Split) | 17.13.00 |
| 15 | Vehicle Description | 20.02.08 |
| 16 | Evap Bench Test Procedure | 13.02.02 |
| 17 | R/L Temp & Press Profiles | N/A |
| 18 | EDV Selection | 02.03.02 |
| 19 | Prod Veh same as Test Veh | 17.01.01 |

| | | Sect/Page# |
|---|---|---|
| 21 | Gen Std, increase in Emiss, Safety, Meets all Reqmts | 20.03.05 |
| 22 | Emission Label Durability | 07.00.00 |
| 23 | Driveability Statement | 17.01.02 |
| 24 | Adjustable Parameters | 08.16.01.00 |
| 25 | Tamper Resistance Method(s) | 08.16.02.00 |
| 26 | Fill Pipe Specifications | 17.04.00 |
| 27 | High Altitude Compliance | 17.02.00 |
| 28 | OBD Sys incl Marked Revisions | 02.06.00 |
| 29 | I&M Test Procedure & Data | 17.11.00 |
| 30 | 50 Degree F Compliance | N/A 17.11.00 |
| 31 | Manufacturer's RAF | N/A |
| 32 | Phase-In Plans: Exh Cert Stds | N/A |
| | Exh In-Use Stds | 17.18.00 |
| | Evap Cert Stds | 17.19.00 |
| 33 | NMOG Fleet Average Calculation | 17.15.00 |
| 34 | AB965 Credits/Withdrawals | N/A |
| 35 | EPA Certificate | after EO |
| 36 | Equiv NMOG Proc--ARB Approval | N/A |

| 20 Test Vehicle Information | Durability Data Vehicle | Emission Data Vehicle | Emission Data Vehicle | Emission Data Vehicle |
|---|---|---|---|---|
| C/O or C/A MY & ID | C/O 94-D2 | 96-SXV2 | 96-SXV2 | |
| Vehicle Log Page(s) | 20.03.04 | 20.03.04 | 20.03.04 | |
| Zero Mile Book Page(s) | 17.12.01(94MY) | 20.03.06 | 20.03.06 | |
| Maint Logs & Engr Eval | 17.12.02(94MY) | 17.12.02 | N/A | |

Continued on next page