

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-282-B
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:

<u>Miles</u>	<u>Non-Methane Organic Gas</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Formaldehyde</u>	<u>Carbon Monoxide (20°F)</u>
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:

<u>Miles</u>	<u>Non-Methane Organic Gas</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Formaldehyde</u>	<u>Carbon Monoxide (20°F)</u>
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 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 vehicle 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 "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 17th 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: TTY1095AYME0
 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 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 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 x 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
 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 RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic converter part No.
3	SXV10L-CCPDKA SXV10L-AEPDKA SXV10L-CEPDKA	L4	3375	6.3 6.6	89661-33760*1 89661-06290*2	25620-74310	Front: S17 Rear: 06
4	SXV10L-CCPDKA SXV10L-CCPNKA SXV10L-AEPDKA SXV10L-AEPGKA SXV10L-AEPNKA SXV10L-CEPDKA SXV10L-CEPGKA SXV10L-CEPNKA SXV10L-CWPNKA		3375 3500 3375 3500	7.0 7.3			
			3625	8.8			

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

Note *1 : Maker ; NIPPONDENSO CO. LTD.
 *2 : Maker ; NIPPONDENSO TENNESSEE, inc.

VEHICLE MODELS:

- | | |
|----------------------|----------------------|
| <u>Camry</u> | <u>Camry wagon</u> |
| <u>SXV10L-AEPDKA</u> | <u>SXV10L-CWPNKA</u> |
| <u>-AEPGKA</u> | |
| <u>-AEPNKA</u> | |
| <u>-CCPNKK</u> | |
| <u>-CCPDKA</u> | |
| <u>-CEPDKA</u> | |
| <u>-CEPGKA</u> | |

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

38.8

Manufacturer: TOYOTA Exh Eng Fam: TTY2.2VJG2GK Evap Fam: TTY1095AYME0
 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 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 _____ 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 x 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
 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)

	<u>Sect/Page#</u>		<u>Sect/Page#</u>
1 Authorized Representative	<u>01.02.00</u>	21 Gen Std, increase in Emiss, Safety, Meets all Reqmts	<u>20.03.05</u>
2 Fuel Specifications	<u>03.00.00</u>	22 Emission Label Durability	<u>07.00.00</u>
3 Test Equipment	<u>04.00.00</u>	23 Driveability Statement	<u>17.01.02</u>
4 Test Procedure	<u>05.00.00</u>	24 Adjustable Parameters	<u>08.16.01.00</u>
5 Mileage Accumulation Route	<u>02.04.00</u>	25 Tamper Resistance Method(s)	<u>08.16.02.00</u>
6 Emission Warranty Statement	<u>17.10.00</u>	26 Fill Pipe Specifications	<u>17.04.00</u>
7 Maint: Cert/Req'd/Recm'd	<u>06.00.00</u>	27 High Altitude Compliance	<u>17.02.00</u>
8 Emiss Label/Vac Hose Diag	<u>07.00.00</u>	28 OBD Sys incl Marked Revisions	<u>02.06.00</u>
9 Evap Control System	<u>19.00.00</u>	29 I&M Test Procedure & Data	<u>17.11.00</u>
10 Engine Parameters	<u>20.01.00</u>	30 50 Degree F Compliance	<u>N/A</u>
11 Fuel System	<u>08.01.00.00</u>	31 Manufacturer's RAF	<u>N/A</u>
12 Ignition System	<u>08.01.00.00</u>	32 Phase-In Plans: Exh Cert Stds	<u>N/A</u>
13 Exhaust Control System	<u>20.02.00</u>	Exh In-Use Stds	<u>17.18.00</u>
14 Proj Sales(LDT/MDV Split)	<u>17.13.00</u>	Evap Cert Stds	<u>17.19.00</u>
15 Vehicle Description	<u>20.02.08</u>	33 NMOG Fleet Average Calculation	<u>17.15.00</u>
16 Evap Bench Test Procedure	<u>13.02.02</u>	34 AB965 Credits/Withdrawals	<u>N/A</u>
17 R/L Temp & Press Profiles	<u>19.05.03&12.01.03</u>	35 EPA Certificate	<u>after EO</u>
18 EDV Selection	<u>02.03.02</u>	36 Equiv NMOG Proc--ARB Approval	<u>N/A</u>
19 Prod Veh same as Test Veh	<u>17.01.01</u>		
20 Test Vehicle Information	<u>Durability</u>	Emission	Emission
C/O or C/A MY & ID	<u>Data Vehicle</u>	Data Vehicle	Data Vehicle
Vehicle Log Page(s)	<u>C/O 94-D2</u>	<u>96-SXV2</u>	<u>96-SXV2</u>
Zero Mile Book Page(s)	<u>20.03.04</u>	<u>20.03.04</u>	<u>20.03.04</u>
Maint Logs & Engr Eval	<u>17.12.01(94MY)</u>	<u>20.03.06</u>	<u>20.03.06</u>
	<u>17.12.02(94MY)</u>	<u>17.12.02</u>	<u>N/A</u>

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