State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-295
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 light-duty trucks:

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

Fuel Type: Gasoline

Engine Family: TTY2.01JG2GK Displacement: 2.0 Liters (121.9 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, transmission codes, engine codes, and evaporative emissins control families are listed on attachments.

The non-methane organic gas (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) TLEV certification exhaust emission standards for this engine family in grams per mile are:

Loaded Vehicle Weight (lbs.)	Miles	NMOG	CO	NOx	HCHO	CO (20°F)
0-3750	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 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:

Loaded Vehicle Weight (lbs.)	Miles	NMOG	CO	NOx	HCHO	CO (20°F)
0-3750	50,000	0.069	0.7	0.1	0.001	4.8
	100,000	0.074	0.8	0.1	0.002	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 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 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 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 October 1995.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

E.O.# A-14-295

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

Manufacturer: TOYOTA Exh Eng Fam: TTY2.01JG2GK Evap Fam: TTY1095AYME1
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 LDT1 x 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 x Pt Source
Hybrid: Type A B C , APU Cycle(e.g., Otto, Diesel, Turbine):
Engine Configuration: I-4 Displacement: 2.0 / Liters 121.9 / Cubic Inches
Valves per Cylinder: 4 Rated HP: 120 @ 5,400 RPM
Engine: Front x Mid Rear Drive: FWD x*1 RWD 4WD-FT x*2 4WD-PT
Exhaust ECS(e.g., MFI, EGR, TC, CAC): SFI, EGR,O2S(2), TWC(2)
(use abbreviations per SAE J1930 SEP91)

Note *1 : Applied to truck line RAV4 2WD.
*2 : Applied to truck line RAV4 4WD.

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	SXA15L-AZMGKA SXA16L-AWMGKA SXA10L-AZMGKA SXA11L-AWMGKA	M5	2875 3000 3000 3125	8.7 8.7 9.7 9.7	Before F/F 96-TF-1 : 89661-42110 89661-42130 After F/F 96-TF-1 : 89661-42231 89661-42251	25620-74300	Front:S18 Rear:06
2	SXA15L-AZMGKA SXA16L-AWMGKA SXA10L-AZMGKA SXA11L-AWMGKA		2875 3000 3000 3125	9.6 9.6 10.7 10.7	Before F/F 96-TF-1 : 89661-42110 89661-42130 After F/F 96-TF-1 : 89661-42231 89661-42251		
3	SXA15L-AZPGKA SXA16L-AWPGKA SXA11L-AWPGKA	L4	2875 3000 3250	8.7 8.7 9.7	Before F/F 96-TF-1 : 89661-42120 89661-42140 After F/F 96-TF-1 : 89661-42241 89661-42261	25620-74310	

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

E.O.# A-14-295

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

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.
4	SXA15L-AZPGKA SXA16L-AWPGKA SXA11L-AWPGKA	L4	2875 3000 3250	9.6 9.6 10.7	Before F/F 96-TF-1 : 89661-42120 89661-42140 After F/F 96-TF-1 : 89661-42241 89661-42261	25620-74310	Front:S18 Rear:06

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

VEHICLE MODELS:

RAV4 2WD	RAV4 4WD
SXA15L-AZPGKA	SXA10L-AZMGKA
SXA15L-AZMGKA	SXA11L-AWPGKA
SXA16L-AWPGKA	SXA11L-AWMGKA
SXA16L-AWMGKA	

E.O.# A-14-295
Page 1 of 2

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

4.05

Manufacturer: TOYOTA Exh Eng Fam: TTY2.01JG2GK Evap Fam: TTY1095AYME1
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 ___ LDT1 x 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 x Pt Source ___
Hybrid: Type A ___ B ___ C ___, APU Cycle(e.g., Otto, Diesel, Turbine): ___
Engine Configuration: I-4 Displacement: 2.0 / ___ Liters 121.9 / ___ Cubic Inches
Valves per Cylinder: 4 Rated HP: 120 @ 5,400 RPM
Engine: Front x Mid ___ Rear ___ Drive: FWD x*1 RWD ___ 4WD-FT x*2 4WD-PT ___
Exhaust ECS(e.g., MFI, EGR, TC, CAC): SFI, EGR,O2S(2), TWC(2)
(use abbreviations per SAE J1930 SEP91)

Note *1: Applied to truckline RAV4 2WD.
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		Sect/Page#			Sect/Page#
1	Authorized Representative	01.02.00	21	Gen Std, increase in Emiss, Safety, Meets all Reqmts	20.03.05
2	Fuel Specifications	03.00.00	22	Emission Label Durability	07.00.00
3	Test Equipment	04.00.00	23	Driveability Statement	17.01.02
4	Test Procedure	05.00.00	24	Adjustable Parameters	08.16.01.00
5	Mileage Accumulation Route	02.04.00	25	Tamper Resistance Method(s)	08.16.02.00
6	Emission Warranty Statement	17.10.00	26	Fill Pipe Specifications	17.04.00
7	Maint: Cert/Req'd/Recm'd	06.00.00	27	High Altitude Compliance	17.02.00
8	Emiss Label/Vac Hose Diag	07.00.00	28	OBD Sys incl Marked Revisions	02.06.00
9	Evap Control System	19.00.00	29	I&M Test Procedure & Data	17.11.00
10	Engine Parameters	20.01.00	30	50 Degree F Compliance	17.11.00
11	Fuel System	08.01.00.00	31	Manufacturer's RAF	17.11.00
12	Iginition System	08.01.00.00	32	Phase-In Plans: Exh Cert Stds	N/A
13	Exhaust Control System	20.02.00		Exh In-Use Stds	17.18.00
14	Proj Sales(LDT/MDV Split)	17.13.00		Evap Cert Stds	17.19.00
15	Vehicle Description	20.02.08	33	NMOG Fleet Average Calculation	17.15.00
16	Evap Bench Test Procedure	13.02.02	34	AB965 Credits/Withdrawals	N/A
17	R/L Temp & Press Profiles	19.05.03&12.01.03	35	EPA Certificate	EO First
18	EDV Selection	02.03.02	36	Equiv NMOG Proc--ARB Approval	N/A
19	Prod Veh same as Test Veh	17.01.01			

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-SXA1	96-SXA4	___
Vehicle Log Page(s)	20.03.04	20.03.04	20.03.04	
Zero Mile Book Page(s)	17.12.00(94MY)	20.03.06	20.03.06	
Maint Logs & Engr Eval	17.12.00(94MY)	N/A	N/A	

Continued on next page