File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-290
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:

Fuel Type: Gasoline

Engine Family: TTY4.0VJGKEK Displacement: 4.0 Liters (242.2 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

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

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	0.09	0.9	0.1	4.9
100,000	0.09	0.9	0.1	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 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 "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 3rd day of August 1995.

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

E.O.# A-14-290
Page 1 of 1

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

Manufacturer: TOYOTA Exh Eng Fam: TTY4.0VJGKEK Evap Fam: TTY1080DYMA0
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 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 X Mod AMA ___ 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: V-8 Displacement: 4.0 / Liters 242.2 / Cubic Inches
Valves per Cylinder: 4 Rated HP: 260 @ 5,300 RPM
Engine: Front x Mid ___ Rear ___ Drive: FWD ___ RWD x 4WD-FT ___ 4WD-PT ___
Exhaust ECS(e.g., MFI, EGR, TC, CAC): SFI, EGR,2HO2S(2),2TWC,TWC
(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, 1R1, 1R2 & 1R3	UZZ30L-ACPZKA	L4	4000	8.3 8.5	89661-24450*1 89661-24451*2 89661-24452*3 89661-24453*4	25620-50030	Front: A01 A03 Rear: L01

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

Note *1 : Before running change 96-TR-2.
*2 : After running change 96-TR-2 and Before running change 96-TR-3.
*3 : After running change 96-TR-3 and Before running change 96-TR-5.
*4 : After running change 96-TR-5.

VEHICLE MODELS:

SC400
UZZ30L-ACPZKA

E.O.# A-14-290
Page 1 of 2

1.8

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

Manufacturer: TOYOTA Exh Eng Fam: TTY4.0VJGKEK Evap Fam: TTY1080DYMA0
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 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 X Mod AMA___ 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: V-8 Displacement: 4.0 / Liters 242.2 / Cubic Inches
Valves per Cylinder: 4 Rated HP: 260 @ 5,300 RPM
Engine: Front x Mid___ Rear___ Drive: FWD___ RWD x 4WD-FT___ 4WD-PT___
Exhaust ECS(e.g., MFI, EGR, TC, CAC): SFI, EGR,2HO2S(2),2TWC,TWC
(use abbreviations per SAE J1930 SEP91)

		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	N/A
11	Fuel System	08.01.00.00	31	Manufacturer's RAF	N/A
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	N/A	35	EPA Certificate TOYOT-LDV-96-06-00	
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 92-D3	96-UZ1	96-UZ1	
	Vehicle Log Page(s)	20.03.04	20.03.04	20.03.04	
	Zero Mile Book Page(s)	17.12.01(92MY)	20.03.06	20.03.06	
	Maint Logs & Engr Eval	17.12.02(92MY)	N/A	17.02.02	

Continued on next page