

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-294  
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: TTY3.0VJGKEK Displacement: 3.0 Liters (182.9 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

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

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

<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.09	0.6	0.1	6.2
100,000	0.10	0.7	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 9<sup>th</sup> day of August 1995.

A handwritten signature in black ink, appearing to read "R. B. Summerfield", is written over the typed name and title.

R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

17.11.00

E.O.# A-14-294Page 1021996 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: TOYOTA Exh Eng Fam: TTY3.0VJGKEK Evap Fam: TTY1080DYMA0 \*1  
 Evap Fam: TTY1095DYMA0 \*2  
 Evap Fam: TTY1095BYPAA0 \*3

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 MDV1 MDV2 MDV3 MDV4 MDV5  
 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) Other(specify)  
 Emiss Test Fuel(s): Indo x Ph2 CNG LPG M85 Other(specify) 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) Other(specify)  
 NMOG Test Procedure: N/A x Std Equiv R/L Test Proc: SHED Pt Source APU Cycle(e.g., Otto, Diesel, Turbine):  
 Hybrid: Type A B C,  
 Engine Configuration: I-6 Displacement: 3.0 / Liters 182.9 / Cubic Inches  
 Valves per Cylinder: 4 Rated HP: 225 @ 6,000 RPM \*1  
 Rated HP: 220 @ 5,800 RPM \*2&\*3  
 Engine: Front x Mid Rear Drive: FWD RWD x 4WD-FT 4WD-PT  
 Exhaust ECS(e.g., MFI, EGR, TC, CAC): SFI, EGR, 2HO2S, TWC(2), HO2S  
 (use abbreviations per SAE J1930 SEP91)

Note \*1 : Applied to carline SC300/SC400.

\*2 : Applied to carline GS300.

\*3 : Applied to carline Supra.

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	JZZ31L-ACMVFA	M5	4000	8.3, 8.5	89661-24470*3 89661-24471*4	25620-46061	Front:M03 Rear:L09
	JZA80L-ALMVFA JZA80L-AJMVFA		3625	7.5	89661-14700*3 89661-14701*4		
2 2R1	JZZ31L-ACPVFA	L4	4000	8.3, 8.5	89661-24460*3 89661-24461*4		Front:M03 Rear:L09
	JZS147L-BEAQFA	L5	4000	7.9	89661-3A010*1 89661-3A011*2 *3 89661-30570*4		Front:M02 Rear:L06
	JZA80L-ALPVFA JZA80L-AJPVFA	L4	3625	7.5	89661-14690*3 89661-14691*4		Front:M03 Rear:L09

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-9.

\*3 : Before Running change 96-TR-17

\*2 : After Running change 96-TR-9.

\*4 : After Running change 96-TR-17.

Page : 17.11-TTY3.0VJGKEK-1

Issued : 04/03/95

96-TR-9 : 09/08/95

96-TR-17 : 05/21/96

17.11.00

E.O.# A-14-294

Page 2 of 2

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

Manufacturer: TOYOTA

Exh Eng Fam: TTY3.0VJGKEK

Evap Fam: TTY1080DYMA0 \*1

Evap Fam: TTY1095DYMA0 \*2

Evap Fam: TTY1095BYP A0 \*3

VEHICLE MODELS:

SC300/

JZZ31L-ACMVFA

JZZ31L-ACPVFA

GS300

JZS147L-BEAQFA

SUPRA

JZA80L-ALMVFA

JZA80L-AJMVFA

JZA80L-ALPVFA

JZA80L-AJPVFA

- Note \*1 : Applied to carline SC300/  
\*2 : Applied to carline GS300.  
\*3 : Applied to carline Supra.

17.11.00

E.O.# A-14-294Page 102

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

3.66

Manufacturer: TOYOTA Exh Eng Fam: TTY3.0VJGKEK Evap Fam: TTY1080DYMA0 \*1  
 Evap Fam: TTY1095DYMA0 \*2  
 Evap Fam: TTY1095BYPA0 \*3

All Eng Codes in Eng Fam: CA 49S 50S x AB965  
 Exh Std: CA Tier-1 x TLEV LEV ULEV LEV ZEV LEV; 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 x  
 Veh Class(es): PC x LDT1 LDT2 MDV1 MDV2 MDV3 MDV4 MDV5 MDV6  
 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 LPG Dual-Fuel M85 Bi-Fuel Gasoline x Diesel Diesel  
 Emiss Test Fuel(s): CNG LNG LPG M85 Other(specify) Other(specify)  
 Indo x Ph2 13CCR 2282 CNG LPG M85 Other(specify) Other(specify)  
 Diesel: 40 CFR 86.113-90 40 CFR 86.113-94  
 Service Accum: Std AMA X Mod AMA Mfr ADP Other(specify) 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): SHED  
 Engine Configuration: I-6 Displacement: 3.0 / 182.9 / Cubic Inches  
 Valves per Cylinder: 4 Rated HP: 225 @ 6,000 RPM \*1  
 Rated HP: 220 @ 5,800 RPM \*2&\*3  
 Engine: Front x Mid Rear Drive: FWD RWD x 4WD-FT 4WD-PT  
 Exhaust ECS(e.g., MFI, EGR, TC, CAC): SFI, EGR, 2HO2S, TWC(2), HO2S  
 (use abbreviations per SAE J1930 SEP91)

Note \*1 : Applied to carline SC300,

\*2 : Applied to carline GS300.

\*3 : Applied to carline Surpa.

	Sect/Page#		Sect/Page#
1 Authorized Representative	01.02.00	21 Gen Std, increase in Emiss,	
2 Fuel Specifications	03.00.00	Safety, Meets all Reqmts	20.03.05
3 Test Equipment	04.00.00	22 Emission Label Durability	07.00.00
4 Test Procedure	05.00.00	23 Driveability Statement	17.01.02
5 Mileage Accumulation Route	02.04.00	24 Adjustable Parameters	08.16.01.00
6 Emission Warranty Statement	17.10.00	25 Tamper Resistance Method(s)	08.16.02.00
7 Maint: Cert/Req'd/Recm'd	06.00.00	26 Fill Pipe Specifications	17.04.00
8 Emiss Label/Vac Hose Diag	07.00.00	27 High Altitude Compliance	17.02.00
9 Evap Control System	19.00.00	28 OBD Sys incl Marked Revisions	02.06.00
10 Engine Parameters	20.01.00	29 I&M Test Procedure & Data	17.11.00
11 Fuel System	08.01.00.00	30 50 Degree F Compliance	N/A
12 Ignition System	08.01.00.00	31 Manufacturer's RAF	N/A
13 Exhaust Control System	20.02.00	32 Phase-In Plans: Exh Cert Stds	N/A
14 Proj Sales(LDT/MDV Split)	17.13.00	Exh In-Use Stds	17.18.00
15 Vehicle Description	20.02.08	Evap Cert Stds	17.19.00
16 Evap Bench Test Procedure	13.02.02	33 NMOG Fleet Average Calculation	17.15.00
17 R/L Temp & Press Profiles	N/A	34 AB965 Credits/Withdrawals	N/A
18 EDV Selection	02.03.02	35 EPA Certificate	SEE BELOW
19 Prod Veh same as Test Veh	17.01.01	36 Equiv NMOG Proc--ARB Approval	N/A
20 Test Vehicle Information	Durability	Emission	Emission
C/O or C/A MY & ID	Data Vehicle	Data Vehicle	Data Vehicle
Vehicle Log Page(s)	C/O 93-D5	96-JS1	96-JZ1
Zero Mile Book Page(s)	20.03.04	20.03.04	20.03.04
Maint Logs & Engr Eval	17.12.01(93MY)	20.03.06	20.03.06
	17.12.02(93MY)	N/A	N/A
Continued on next page			

EPA CERTS

TOYOT-LDV-96-14-00

TOYOT-LDV-96-15-00

TOYOT-LDV-96-16-00