

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-288-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 light-duty trucks:

Fuel Type: Gasoline

Engine Family: TTY3.41JGF EK Displacement: 3.4 Liters (206.1 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

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

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

The certification exhaust emission standards (in-use compliance standards in parentheses) for this engine family in grams per mile are:

<u>Loaded Vehicle Weight(lbs.)</u>	<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
0-3750	50,000	0.25 (0.32)	3.4 (5.2)	0.4 (0.4)	10.0 (10.0)
	100,000	0.31 (n/a)	4.2 (n/a)	0.6 (n/a)	n/a

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

<u>Loaded Vehicle Weight(lbs.)</u>	<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
0-3750	50,000	0.12	1.7	0.3	5.7
	100,000	0.12	2.0	0.3	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, based on a separate compliance plan submitted by the vehicle manufacturer, the listed vehicle models are permitted alternative in-use compliance 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 the submitted alternative in-use compliance plan satisfies the requirement that a maximum of 20 percent of the manufacturer's projected sales of 1996 model-year California-certified passenger cars and light-duty trucks will be subject to alternative in-use compliance as stipulated in the above-referenced 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 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 9th day of August 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: TTY3.41JGFEK Evap Fam: TTY1095AYME0
 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 Useful Life with R/L x In-Use Exh Std: Full In Use Alt In Use x
 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 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 Equip R/L Test Proc: SHED x Pt Source
 Hybrid: Type A B C, APU Cycle(e.g., Otto, Diesel, Turbine): _____
 Engine Configuration: V-6 Displacement: 3.4 / _____ Liters 206.1 / _____ Cubic Inches
 Valves per Cylinder: 4 Rated HP: _____ @ _____ 4,800 RPM
 Engine: Front x Mid Rear Drive: FWD RWD 4WD-FT 4WD-PT x
 Exhaust ECS(e.g., MFI, EGR, TC, CAC): SFI, EGR, HO2S(2), TWC
 (use abbreviations per SAE J1930 SEP91)

Engine Code/ (also list CA/ 49S/ 50ST)	Vehicle Models (if coded see attachmt)	Trans. (M5, A4 etc.)	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic converter part No.
5	VZN160L-TRMDKAB	M5	3625	14.5, 14.9	89661-04210	25620-62050	S98
6	VZN160L-TRMDKAB		3750	15.9, 16.3			

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

VEHICLE MODELS:

TOYOTA TACOMA 4WD
VZN160L-TRMDKAB

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

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Manufacturer: TOYOTA Exh Eng Fam: TTY3.4IJGFEK Evap Fam: TTY1095AYMEO
 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 Useful Life with R/L x In-Use Exh Std: Full In Use Alt In Use x
 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 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 x Pt Source _____
 Hybrid: Type A B C, APU Cycle(e.g., Otto, Diesel, Turbine): _____
 Engine Configuration: V-6 Displacement: 3.4 / Liters 206.1 / Cubic Inches
 Valves per Cylinder: 4 Rated HP: 190 @ 4,800 RPM
 Engine: Front x Mid Rear Drive: FWD RWD 4WD-FT 4WD-PT x
 Exhaust ECS(e.g., MFI, EGR, TC, CAC): SFI, EGR, HO2S(2), TWC
 (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,	
2 Fuel Specifications	<u>03.00.00</u>	Safety, Meets all Reqmts	<u>20.03.05</u>
3 Test Equipment	<u>04.00.00</u>	22 Emission Label Durability	<u>07.00.00</u>
4 Test Procedure	<u>05.00.00</u>	23 Driveability Statement	<u>17.01.02</u>
5 Mileage Accumulation Route	<u>02.04.00</u>	24 Adjustable Parameters	<u>08.16.01.00</u>
6 Emission Warranty Statement	<u>17.10.00</u>	25 Tamper Resistance Method(s)	<u>08.16.02.00</u>
7 Maint: Cert/Req'd/Recm'd	<u>06.00.00</u>	26 Fill Pipe Specifications	<u>17.04.00</u>
8 Emiss Label/Vac Hose Diag	<u>07.00.00</u>	27 High Altitude Compliance	<u>17.02.00</u>
9 Evap Control System	<u>19.00.00</u>	28 OBD Sys incl Marked Revisions	<u>02.06.00</u>
10 Engine Parameters	<u>20.01.00</u>	29 I&M Test Procedure & Data	<u>17.11.00</u>
11 Fuel System	<u>08.01.00.00</u>	30 50 Degree F Compliance	<u>N/A</u>
12 Ignition System	<u>08.01.00.00</u>	31 Manufacturer's RAF	<u>N/A</u>
13 Exhaust Control System	<u>20.02.00</u>	32 Phase-In Plans: Exh Cert Stds	<u>N/A</u>
14 Proj Sales(LDT/MDV Split)	<u>17.13.00</u>	Exh In-Use Stds	<u>17.18.00</u>
15 Vehicle Description	<u>20.02.08</u>	Evap Cert Stds	<u>17.19.00</u>
16 Evap Bench Test Procedure	<u>13.02.02</u>	33 NMOG Fleet Average Calculation	<u>17.15.00</u>
17 R/L Temp & Press Profiles	<u>19.05.03&12.01.03</u>	34 AB965 Credits/Withdrawals	<u>N/A</u>
18 EDV Selection	<u>02.03.02</u>	35 EPA Certificate <u>TOYOT-LDT-96-05-00</u>	
19 Prod Veh same as Test Veh	<u>17.01.01</u>	36 Equiv NMOG Proc--ARB Approval	<u>N/A</u>
	<u>Durability</u>	Emission	Emission
20 Test Vehicle Information	<u>Data Vehicle</u>	Data Vehicle	Data Vehicle
C/O or C/A MY & ID	<u>C/O 95-DT1</u>	<u>96-VZN1</u>	<u>96-VZN1</u>
Vehicle Log Page(s)	<u>20.03.04</u>	<u>20.03.04</u>	<u>20.03.04</u>
Zero Mile Book Page(s)	<u>17.12.01(95MY)</u>	<u>20.03.06</u>	<u>20.03.06</u>
Maint Logs & Engr Eval	<u>17.12.02(95MY)</u>	<u>17.02.02</u>	<u>17.02.02</u>

Continued on next page