Fil

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-293
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 medium-duty vehicles:

Fuel Type: Gasoline

Engine Family: TTY4.55JGFEK Displacement: 4.5 Liters (273.2 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

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

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:

Test Weight (lbs.)	Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Carbon Monoxide (20°F)
3751-5750	50,000	0.32	4.4	0.7	12.5
	120,000	0.46	6.4	0.98	n/a

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

Test Weight (lbs.)	Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Carbon Monoxide (20°F)
3751-5750	50,000	0.22	2.4	0.4	11.2
	120,000	0.27	3.4	0.60	n/a

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 "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 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

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

Manufacturer: TOYOTA Exh Eng Fam: TTY4.55JGFEK Evap Fam: TTY1095DYMB0
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 Alt In Use x
Veh Class(es): PC LDT1 LDT2 MDV1 MDV2 x 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: I-6 Displacement: 4.5 / Liters 273.2 / Cubic Inches
Valves per Cylinder: 4 Rated HP: 212 @ 4,600 RPM
Engine: Front x Mid Rear Drive: FWD RWD 4WD-FT x 4WD-PT
Exhaust ECS(e.g., MFI, EGR, TC, CAC): SFI, EGR, HO2S(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.
2	FZJ80L-GNPEKA FZJ80L-GNPGKA	L4	5,500	18.0	before R/C 96-TR-14: 89661-60261 after R/C 96-TR-14: 89661-60262	25620-66011	C11, F16

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

VEHICLE MODELS :

Land Cruiser Wagon 4WD
FZJ80L-GNPEKA

LX450
FZJ80L-GNPGKA

E.O.# A-14-293

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

3.46

Manufacturer: TOYOTA Exh Eng Fam: TTY4.55JGFEK Evap Fam: TTY1095DYMB0
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 Alt In Use x
Veh Class(es): PC LDT1 LDT2 MDV1 MDV2 x 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: I-6 Displacement: 4.5 / Liters 273.2 / Cubic Inches
Valves per Cylinder: 4 Rated HP: 212 @ 4,600 RPM
Engine: Front x Mid Rear Drive: FWD RWD 4WD-FT x 4WD-PT
Exhaust ECS(e.g., MFI, EGR, TC, CAC): SFI, EGR, HO2S(2), TWC(2)
(use abbreviations per SAE J1930 SEP91)

		Sect/Page#
1	Authorized Representative	01.02.00
2	Fuel Specifications	03.00.00
3	Test Equipment	04.00.00
4	Test Procedure	05.00.00
5	Mileage Accumulation Route	02.04.00
6	Emission Warranty Statement	17.10.00
7	Maint: Cert/Req'd/Recm'd	06.00.00
8	Emiss Label/Vac Hose Diag	07.00.00
9	Evap Control System	19.00.00
10	Engine Parameters	20.01.00
11	Fuel System	08.01.00.00
12	Iginition System	08.01.00.00
13	Exhaust Control System	20.02.00
14	Proj Sales(LDT/MDV Split)	17.13.00
15	Vehicle Description	20.02.08
16	Evap Bench Test Procedure	13.02.02
17	R/L Temp & Press Profiles	N/A
18	EDV Selection	02.03.02
19	Prod Veh same as Test Veh	17.01.01

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21	Gen Std, increase in Emiss, Safety, Meets all Reqmts	20.03.05
22	Emission Label Durability	07.00.00
23	Driveability Statement	17.01.02
24	Adjustable Parameters	08.16.01.00
25	Tamper Resistance Method(s)	08.16.02.00
26	Fill Pipe Specifications	17.04.00
27	High Altitude Compliance	17.02.00
28	OBD Sys incl Marked Revisions	02.06.00
29	I&M Test Procedure & Data	17.11.00
30	50 Degree F Compliance	N/A
31	Manufacturer's RAF	N/A
32	Phase-In Plans: Exh Cert Stds	N/A
	Exh In-Use Stds	17.18.00
	Evap Cert Stds	17.19.00
33	NMOG Fleet Average Calculation	17.15.00
34	AB965 Credits/Withdrawals	N/A
35	EPA Certificate TOYOT-LDT-96-04-00	
36	Equiv NMOG Proc--ARB Approval	N/A

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 95-DT4	C/O 95-FZJ1	C/O 95-FZJ1	
Vehicle Log Page(s)	20.03.04	20.03.04	20.03.04	
Zero Mile Book Page(s)	17.12.01(95MY)	20.03.06	20.03.06	
Maint Logs & Engr Eval	17.12.02(95MY)	N/A	N/A	

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