Field

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-291
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: TTY1.5VHGFEK Displacement: 1.5 Liters (91.4 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

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:

Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Carbon Monoxide (20°F)
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:

Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Carbon Monoxide (20°F)
50,000	0.16	1.6	0.1	4.4
100,000	0.20	1.7	0.2	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 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 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 "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 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 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: TTY1.5VHGFEK Evap Fam: TTY1047DYMA0
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 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 Mod AMA x 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-4 Displacement: 1.5 / Liters 91.4 / Cubic Inches
Valves per Cylinder: 4 Rated HP: 93 @ 5,400 RPM
Engine: Front x Mid Rear Drive: FWD x RWD 4WD-FT 4WD-PT
Exhaust ECS(e.g., MFI, EGR, TC, CAC): MFI, EGR,HO2S(2), 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	EL53L-ADKBKA EL53L-ADMRKA EL53L-AEMRKA	M4 M5	2250 2375	6.2	89661-16342[1] 89661-16460[2] 89661-16344[7] 89661-16462[8]	25620-11150	T01
2	EL53L-ADKBKA EL53L-ADMRKA EL53L-AEMRKA EL54L-DCMSKA	M4 M5	2375	6.2 6.1			
3	EL53L-ADKBKA EL53L-ADMRKA EL53L-AEMRKA	M4 M5	2375	6.9			
4	EL53L-ADKBKA EL53L-ADMRKA EL53L-AEMRKA EL54L-DCMSKA	M4 M5	2375 2500	6.9 6.7			
5	EL53L-ADHBKA EL53L-ADPRKA EL53L-AEPRKA	L3 L4	2375 2500	6.2	89661-16352[3] 89661-16362[4] 89661-16354[9] 89661-16364[10]	25620-11140	
6	EL53L-ADHBKA EL53L-ADPRKA EL53L-AEPRKA	L3 L4	2375 2500	6.2			
7	EL53L-ADHBKA EL53L-ADPRKA EL53L-AEPRKA	L3 L4	2375 2500	6.9			
8	EL53L-ADHBKA EL53L-ADPRKA EL53L-AEPRKA	L3 L4	2375 2500	6.9			

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

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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: TTY1.5VHGFEK Evap Fam: TTY1047DYMA0

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.
2R1	EL54L-DCMSKA	M5	2375	6.1	89661-16461*5 89661-16462*11	25620-11150	T01
4R1	EL54L-DCMSKA	M5	2500	6.7			
9	EL54L-DCPSKA	L4	2500	6.1	89661-16470*6 89661-16471*11		
10	EL54L-DCPSKA	L4	2500	6.7			

Note
*1 : Before F/F 96-TF-3 vehicle model EL53L-ADKBKA and EL53L-A*MRKA
*2 : Before Running change 96-TR-10 vehicle model EL54L-DCMSKA
*3 : Before F/F 96-TF-3 vehicle model EL53L-ADHBKA
*4 : Before F/F 96-TF-3 vehicle model EL53L-A*PRKA
*5 : After Running change 96-TR-10
*6 : Before F/F 96-TF-3
*7 : After F/F 96-TF-3 vehicle model EL53L-ADKBKA and EL53L-A*MRKA
*8 : After F/F 96-TF-3 vehicle model EL54L-DCMSKA
*9 : After F/F 96-TF-3 vehicle model EL53L-ADHBKA
*10 : After F/F 96-TF-3 vehicle model EL53L-A*PRKA
*11 : After F/F 96-TF-3

VEHICLE MODELS:

Tercel	Paseo
EL53L-ADKBKA	EL54L-DCMSKA
EL53L-ADMRKA	EL54L-DCPSKA
EL53L-AEMRKA	
EL53L-ADHBKA	
EL53L-ADPRKA	
EL53L-AEPRKA	

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

20.4

Manufacturer: TOYOTA Exh Eng Fam: TTY1.5VHGFEK Evap Fam: TTY1047DYMA0
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 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: I-4 Displacement: 1.5 / Liters 91.4 / Cubic Inches
Valves per Cylinder: 4 Rated HP: 93 @ 5,400 RPM
Engine: Front x Mid Rear Drive: FWD x RWD 4WD-FT 4WD-PT
Exhaust ECS(e.g., MFI, EGR, TC, CAC): MFI, EGR,HO2S(2), 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-96-07-00	
18	EDV Selection	02.03.02			
19	Prod Veh same as Test Veh	17.01.01	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-D1	C/O 95-EL3	96-EL2	
Vehicle Log Page(s)	20.03.04	20.03.04	20.03.04	
Zero Mile Book Page(s)	17.12.00(95MY)	20.03.06(95MY)	20.03.06	
Maint Logs & Engr Eval	17.12.02(95MY)	17.12.02(95MY)	N/A	

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