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State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-381
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 the following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below:

Model Year: 2001

Vehicle Type: Passenger Car

Exhaust Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type: Gasoline

Test Group: 1TYXV01.5FFA

Engine Displacement: 1.5 Liters

Evaporative Family: 1TYXR0075AK1

Special Features and Exhaust Emission Control Systems:

Three Way Catalytic Converter
Heated Oxygen Sensors (two)
Sequential Multiport Fuel Injection

Models Covered: Toyota Echo

The exhaust certification emission levels and standards, in grams per mile, of non-methane organic gases (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) for the listed vehicle models are as follows. The NMOG exhaust certification emission levels include application of the reactivity adjustment factor (RAF) as specified.

The evaporative hydrocarbon (HC) certification emission levels and standards for two-day diurnal plus hot soak (2D) and three-day diurnal plus hot soak (3D) in grams per test, running loss (RL) in grams per mile, and onboard refueling vapor recovery (ORVR) in grams per gallon of fuel dispensed, for the listed vehicle models are as follows.

Type of Emissions	Miles	Certification Level	Certification Standards
EXHAUST @ NMOG RAF = 0.94			
..... NMOG fleet average NMOG		0.069 (projected)	
NMOG	50,000	0.063	0.070
CO	100,000	0.071	0.075
CO	50,000	0.6	0.090
NOx	100,000	0.8	3.4
NOx	50,000	0.1	4.2
NOx (highway)	100,000	0.2	0.2
NOx (highway)	50,000	0.1	0.3
HCHO	100,000	0.2	0.3
..... HCHO	50,000	0.0004	0.4
..... CO (20°F)	100,000	0.001	0.015
NMOG (50°F)	50,000	1.4	0.018
CO (50°F)	4,000	n/a	10.0
NOx (50°F)	4,000	n/a	0.150
HCHO (50°F)	4,000	n/a	3.4
EVAPORATIVE		n/a	0.2
HC-2D			0.030
HC-3D	100,000		
HC-RL	100,000	0.6	
HC-ORVR	100,000	0.8	2.5
	100,000	0.02	2.0
		0.13	0.05
			0.20

BE IT FURTHER RESOLVED: That any debit in the manufacturer's NMOG fleet average compliance plan shall be equalized as required by the "California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the 50° Fahrenheit testing requirement for the listed vehicle models has been met based on the compliance plan submitted by the manufacturer in lieu of actual testing.

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).

BE IT FURTHER RESOLVED: That for the listed vehicle models, the manufacturer has attested to compliance with the following California emission regulations and requirements. Vehicles certified under this Executive Order shall conform to all applicable California emission regulations and requirements.

- Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks (Title 13, California Code of Regulations, Section 2235)
- Motor Vehicle Emission Control and Smog Index Label Specifications (Title 13, California Code of Regulations, Section 1965)
- Emission Control System Warranty (Title 13, California Code of Regulations, Sections 2035 et seq.)
- High-Altitude Requirements and California Inspection and Maintenance Emission Standards (California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles)

The Bureau of Automotive Repair will be notified by copy of this order.

Executed at El Monte, California this 17th day of August 2000.

R. B. Summerfield, Chief
Mobile Source Operations Division