## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-14-93 Relating to Certification of New Motor Vehicles

## TOYOTA MOTORS 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 Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1987 model-year Toyota Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displacer Cubic Inches		Exhaust Emission Control Systems (Special Features)
HTY1.6V2FCC1	88.6/96.8	(1.5/1.6)	Air Injection-Valve Exhaust Gas Recirculation Oxygen Sensor Three-Way Catalyst

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

The following are the emission standards for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
Grams per Mile	Grams per Mile	Grams per mile
0.39	7.0	0.7

The following are the certification emission values for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	
Grams per Mile	Grams per Mile	<u>Grams</u> per Mile	
0.30	3.9	0.4	

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13. California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered 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" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1981 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 Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) 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 regulations (Title 13, California Administrative Code, Section 2035 et seq.) and with Health and Safety Code Section 43204.

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 36st day of July, 1986.

K. D. Drachand, Chief Mobile Source Division

		Page 1
anufacturer <u>Toyota Motor Corp</u>	oration Engine Family HTY1.	6V2FCC1
vaporative FamilyEV-A	Engine Type 4 cyl	. in-line
	Liters (CID) <u>1.5/1.6 (</u>	88.6/96.8)
BBREVIATIONS		
		•
gnition System	Exhaust Emissions Control System	Special Features
A-Centrifugal Advance	AIP-Air Injection-Pump	CCV-Combustion
EC-Electronic Engine Control	<u> </u>	Chamber Valve
I-Electronic Ignition	CL-Closed Loop	CFI-Central Fuel
SAC-Electronic Spark Advance Control		Injection
Control A-Vacuum Advance	EM-Engine Modification OC-Oxidation Catalyst System	DID-Diesel
R-Vacuum Retard	SPL-Smoke Puff limiter or	Injection- Direct
	Throttle Delay	DIP-Diesel
	TOC-Trap Oxidizer Continual	Injection-
	TOP-Trap Oxidizer Periodical	Prechamber
	TR-Thermal Reactor	EFI-Electronic
	TWC-Three Way Catalyst System	Fuel Injection
uel System		IC-Interc∞ler
FI, CL, DID, DIP, EFI, MFI		or aftercooler
V-nVenturi Carburetor	*	MFI-Mechanical
		Fuel Injection TC-Turbocharger
		ic-iur bochar ger
EHICLE MODELS :	·	
	la sport 3. Tercel wqn. 2WD 4.	A A .
AE82L-EEMNCA AE86L-ECI -ELMDCA -ESI	MXCA AL21LG-ZWMDCA AL MXCA -ZWHDCA	25LG-ZWFDCA
	PXCA	-zwpoca -zwhdca
-ELHDCA	. Aoi	
-EEPECA		
-eepnca		
-eemdca		
ngine: Front <u>1 thru 4</u> Mic	d Rear	
rive: FWD <u>1,3</u> RWD	2 4WD Full time 4WD Pa	rt time 4

Page : 17-42

Issued : 05/27/86

## 1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page Passenger Cars x Light-Duty Trucks Medium-Duty Vehicles Gas x Diesel Manufacturer Toyota Motor Corporation Engine Family HTY1.6V2FCC1 Liter (CID) 1.5/1.6 (88.6/96.8) Eng. Type 4 cyl. in-line Emission Control Sys. (Special Features) AIV + CL + BGR + TWC Vehicle Models Trans. Equiv. Ign. System Fuel System EGR Valve Catalyst Engine EI, CA, VA (If Coded see Test 2V, CL attachment) Type Weight Part No. Part No. Part No. Part No. code (Dyno Hp: Refer [Distribu-Carbureto 08.13.03.00) torl tor] M5 2,500 | 19030-15060 | 21100-15340 | 25620-15210 | 18450-15110 AL21LG-ZWMDCA 1 thru 4 AL25LG-ZWFDCA 2,625 -ZWFQCA **A3** 5 thru 8 AL21LG-ZWHDCA 2,500 9 thru 12 AL25LG-ZWHDCA 2,625 13 thru 16 AE82L-EEMDCA M5 2,500 19030-16082 21100-16210 25620-15250 and 13R1 2,625 -EEMNCA thru 16Rl -ELMDCA 17 thru 20 AE82L-EEHDCA **A3** 2,500 25620-15030 -ELHDCA 2,625 A4 2,625 -EBPECA -ERPNCA 17Rl thru AE82L-BEHDCA **A3** 2,500 25620-15250 20R1 -BLHDCA 2,625 λ4 2,625 -EEPECA -BEPNCA 21 thru 24 AB86L-ESMXCA M5 2,500 19030-16101 21100-16220 25620-15250 2.625 -BCMXCA 2,625 25 thru 28 AE86L-ESPXCA **A4** 25620-15030

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

Page : 17-43

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