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## State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-111-1 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 1988 model-year Toyota Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displacement Liters (Cubic Inches)		Exhaust Emission Control Systems (Special Features)		
JTY2.0V5FBDX	2.0	(121.9)	Exhaust Gas Recirculation Three-Way Catalyst (Two) Oxygen Sensor (Electronic Port Fuel Injection) (On-Board Diagnostics)		

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		<u>Grams per Mile</u>		
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	Grams per Mile
0.11	0.7	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.

## TOYOTA MOTORS CORPORATION

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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 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 Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s] ..." (Title 13, California Administrative Code, Section 1968) 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.

This Executive Order supersedes Executive Order A-14-111 dated August 19, 1987.

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

Executed at El Monte, California this  $15^{-1}$  day of October, 1987.

a.F. Donnelly (for KDD)

K. D. Drachand, Chief Mobile Source Division

## 17.11.00 Supplemental data sheets

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Manufacturer Toyota Motor Corporation	Engine FamilyJTY2.0V5FBDX
Evaporative Family <u>EV-E</u>	Engine Type4 cyl. in-line
	Liters (CID) 2.0 (121.9)

ABBREVIATIONS

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Ignition System	Exhaust Emissions Control System	Special Features
CA-Centrifugal Advance	AIP-Air Injection-Pump	CCV-Combustion
ECU-Electronic Control Unit	AIV-Air Injection-Valve	Chamber Valve
EI-Electronic Ignition	DBC-Dual Bed Catalyst	CFI-Central Fuel
ESAC-Electronic Spark Advance	EGR-Exhaust Gas Recirculation	Injection
Control	EIC-Electronic Injection Control	DID-Diesel
VA-Vacuum Advance	EM-Engine Modification	Injection-
VR-Vacuum Retard	OC-Oxidation Catalyst	Direct
	OS-Oxygen sensor	DIP-Diesel
	HOS-Heated Oxygen Sensor	Injection-
	SPL-Smoke Puff Limiter or	Prechamber
	Throttle Delay	<b>EFI-Electronic</b>
	TOC-Trap Oxidizer, Continual	Fuel Injection
Fuel System	TOP-Trap Oxidizer, Periodical	IC-Intercooler
CFI, CL, DID, DIP, EFI, MFI	TWC-Three-Way Catalyst	or aftercooler
nV-nVenturi Carburetor	WUOC-Warm-Up Oxidation Catalyst	MFI-Mechanical
	WUTWC-Warm-Up Three-Way Catalyst	Fuel Injection
		OBD-On-Board
		Diagnostics
		TC-Turbocharger
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VEHICLE MODELS :

Camry SV25L-UEMDKA -UEMNKA

Engine:	Front <u>x</u>	Mid	Rear	
Drive:	FWD	RWD	4WD Full time <u>x</u>	4WD Part time

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•	1988 AIR RESOURCES BOAI	rd supplemental data sheet
Passenger Cars _	x_ Light-Duty Trucks Me	Page <u>2</u> edium-Duty Vehicles <u>Gas x</u> Diesel
Manufacturer	Toyota Motor Corporation	Engine familyJTY2.0V5FBDX
Liter (CID)	2.0 (121.9)	Eng. Type <u>4 cyl. in-line</u>
	Sys. (Special Features)	

Engine code	Vehicle Models (If Coded see attachment) (Dyno Hp: Refer to 08.13.03.00)	Trans. Type	Equiv. Test Weight	Ign. System EEC.EI.ESAE Part No. [Computer]	Fuel System CL, EFI Part No. [Computer] [Air flow meter] [Injector]	EGR Valve Part No.	Catalyst Part No.
1, 1R1, 2 & 2R1	SV25L-UEMDKA -UEMNKA	M5	3,375 3,500	89661-32160	89661-32160 22250-74140 23250-74060	25620-74140	25508-74021 (Manifold converter)*1 25508-74022 (Manifold converter)*2 25508-74080 (Manifold converter)*3 18450-74130 (Under floor)

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.

[Note] \*1 : Before Running change 88-TR-7. \*2 : After Running change 88-TR-7. \*3 : After Running change 88-TR-14.

Page : 17.11-26 Issued : 05/26/87 Rev. 1 : 06/26/87 88-TR-7 : 11/30/87 88-TR-14 : 03/10/88

Rev. 8 : 09/22/87

88-TR-4 : 09/30/87