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## State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-112 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)
JTY2.0V5FBG2	2.0 (121.9)	Exhaust Gas Recirculation Heated Oxygen Sensor
		Three-Way Catalyst (Electronic Port Fuel Injection)

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

The following are the emission standards for this engine family:

Hydrocarb <b>ons</b>	Carbon Monoxide	Nitrogen Oxides
<u>Grams per Mile</u>	Grams per mile	Grams per Mile
0.39	7.0	

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
0.24	1.7	0.3

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 have been granted an exemption from compliance with the requirements of 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.

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

Executed at El Monte, California this  $26^{44}$  day of August, 1987.

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K. D. Drachand, Chief <sup>C</sup> Mobile Source Division

17.11.00 Supplemental data	sheets
1988 AIR R	ESOURCES BOARD SUPPLEMENTAL DATA SHEET E.O. # $A - 14 - 102$
	Page 1
Manufacturer <u>Toyota Motor Cor</u>	
Evaporative FamilyEV-	E Engine Type 4 cyl. in-line
	Liters (CID) <u>2.0 (121.9)</u>
ABBREVIATIONS	
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 EGR-Exhaust Gas Recirculation Injection
Control	EGR-Exhaust Gas Recirculation Injection 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 EFI-Electronic
	TOC-Trap Oxidizer, Continual Fuel Injection
Fuel System	TOP-Trap Oxidizer, Periodical IC-Intercooler
CFI, CL, DID, DIP, EFI, MFI NV-nVenturi Carburetor	TWC-Three-Way Catalyst or aftercooler
- INV-INVENTURI Carburetor	WUOC-Warm-Up Oxidation Catalyst MFI-Mechanical WUTWC-Warm-Up Three-Way Catalyst Fuel Injection
	OBD-On-Board
	Diagnostics
VEHICLE MODELS :	TC-Turbocharger
VERICLE MODELS .	
Cel	ica
ST1621	-BCMVFA
	-BCPVFA
	-BLMVFA
Engine: Front <u>x</u> Mid	Rear
Drive: FWD <u>x</u> RWD	4WD Full time 4WD Part time

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1988 AIR RESOURCES BOARD	SUPPLEMENTAL DATA SHEET			
Passenger Cars <u>x</u> Light-Duty Trucks <u> </u> Medi	Page <u>2</u> lum-Duty Vehicles <u>Gas x</u> Diesel			
Manufacturer Toyota Motor Corporation				
Liter (CID) 2.0 (121.9)	Eng. Type <u>4 cyl. in-line</u>			
Fmission Control Svs (Special Features)				

Engine	Vehicle Models (If Coded see	Trans.	Equiv. Test			EGR Valve	Catalyst
code	attachment) (Dyno Hp: Refer to 08.13.03.00)			EEC.EI.ESAE Part No. [Computer]	Part No. [Computer] [Air flow meter] [Injector]	Part No.	Part No.
1, 2	ST162L-BCMVFA -BLMVFA	M5	3,125	89661-20320	<b>89661</b> -20320 22 <b>25</b> 0-74060 23250-74050	25620-74170	18450-74120
3, 4	ST162L-BCPVFA	A4	3,125				

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.