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## State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-112-1 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		lacement 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) (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	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	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.

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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-14-112 dated August 26, 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

1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET E.O. # A - 14 - 102 - 1

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Manufacturer Toyota Motor Corporation	Engine FamilyJTY2.0V5FBG2
Evaporative Family <u>EV-E</u>	Engine Type <u>4 cyl. in-line</u>
	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	<b>DIP-Diesel</b>
	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
	WUOC-Warm-Up Oxidation Catalyst	MFI-Mechanical
IN INVENTURE COMPARECON	WUTWC-Warm-Up Three-Way Catalyst	Fuel Injection
		OBD-On-Board
		Diagnostics
		TC-Turbocharger

VEHICLE MODELS :

Celica
ST162L-BCMVFA
-BCPVFA
-BLMVFA

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

## 17.11.00

	1988 AIR RESOURCES BOARD	SUPPLEMENTAL DATA SHRET Page	
Passenger Cars	<u>x</u> Light-Duty Trucks <u>Med</u>	lum-Duty Vehicles Gas _x_ Diesel	
Manufacturer	Toyota Motor Corporation	Engine family JTY2.0V5FBG2	-
Liter (CID)	2.0 (121.9)	Eng. Type <u>4 cyl. in-line</u>	-
Emission Contro	ol Sys. (Special Features)	BGR + HOS + TWC (BFI + OBD)	-

Engine	Vehicle Models (If Coded see	Trans.	Bquiv. Test	Ign. System BBC,BI,BSAE	Fuel System CL, EFI	<b>E</b> GR Valve	Catalyst
code	attachment) (Dyno Hp: Refer to 08.13.03.00)		Weight	Part No. [Computer]	Part No. [Computer] [Air flow meter] [Injector]	Part No.	Part No.
1, 2	ST162L-BCMVFA -BLMVFA	M5	3,125	89661-20320	89661-20320 22250-74060 23250-74050	25620-74170	18450-74120
3, 4	ST162L-BCPVFA	<b>A4</b>	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.

B.O. # A-142-112-1