SEE E.O. A-14-108-1

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## AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-108 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 Exhaust Emission Control Systems Liters (Cubic Inches) (Special Features)
JTY1.6V5FBB3	1.6 (96.8) Exhaust Gas Recirculation Three-Way Catalyst
	Heated Oxygen Sensor (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:

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
0.19	2.2	0.2

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 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 day of August, 1987.

K. D. Drachand, Chief O Mobile Source Division

Reder N. Weis

1988 AIR RE	SOURCES BOARD SUPPLEMENTAL DATA	A SHEET E.O. # A-14
,		Pagel
Manufacturer Toyota Motor Corpo	oration Engine Family J	TY1.6V5FBB3
Evaporative Family EV-E	Engine Type 4 cy	/l. in-line
	Liters (CID)	1.6 (96.8)
ABBREVIATIONS		
Ignition System	Exhaust Emissions Control Syst	em 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	
Control VA-Vacuum Advance	EIC-Electronic Injection Contr	
VR-Vacuum Retard	EM-Engine Modification OC-Oxidation Catalyst	Injection-
VK Vacaum Ketal u	OS-Oxygen sensor	Direct 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	TWC-Three-Way Catalyst	or aftercooler
'nV-nVenturi Carburetor	WUOC-Warm-Up Oxidation Catalys	
	WUTWC-Warm-Up Three-Way Cataly	•
		OBD-On-Board
		Diagnostics
		TC-Turbocharger
VEHICLE MODELS :		
VEHICLE PODELS .		
1. Core	olla 2. MR2	
AE92L-7		
	-WCPQFA	
	-wjmofa	
	-wjpqfa	
•		
Engine: Front 1 Mid. 2	Rear	

RWD 2 4WD Full time 4WD Part time

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Drive: FWD 1

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## 1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

						Page	e <u> </u>
Passenger (	Cars <u>x</u> Light-Du	uty Tru	cks	Medium-Duty	Vehicles	Gas x Die	esel
Manufacture	er <u>Toyota Mo</u>	tor Cor	poratio	n Engin	e family	<b>JT</b> Y1.6V	5F <b>BB3</b>
Liter (CID)	1.6	(96.8)		Eng.	Type 4 cyl	in-line	
Emission Co	Emission Control Sys. (Special Features) EGR + HOS + TWC (EFI)						
Engine	Vehicle Models (If Coded see	Trans.	1 -	Ign. System EEC,EI,ESAC		EGR Valve	Catalyst
code	attachment) (Dyno Hp: Refer to 08.13.03.00)			Part No. [Computer]	Part No.	Part No.	Part No.
1 thru 4	AE92L-ACMVFA	M5	2,750	89661-12240	89661-12240 <b>2</b> 2250-16060 23 <b>25</b> 0-16080		18450-16210
5 & 6	AW11L-WCMQFA -WJMQFA	M5	2,750 2,875	89661-17200	89661-17200 22250-16040 23250-16080	25620-16031	18450-16260
7 & 8	AW11L-WCPQFA -WJPQFA	A4	2,875				

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.

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