SEE E.O.A-14-109-1

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AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-109 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)
JTY1.6V5FBS3	1.6 (9 6.8)	Exhaust Gas Recirculation Three-Way Catalyst
		Heated Oxygen Sensor (Electronic Port Fuel Injection) (Intercooler)
		(Supercharger)

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	
0.16	1.4	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

EXECUTIVE ORDER A-14-109 (Page 2 of 2)

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 $26^{\frac{14}{2}}$ day of August, 1987.

RobertoWerie

K. D. Drachand, Chief Mobile Source Division

17.11.00 Supplemental data sheets

> 1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET B.O. # A-14-109

Page Manufacturer Toyota Motor Corporation Engine Family _____JTY1.6V5FBS3 Evaporative Family ____ EV-E Engine Type _____4 cyl. in-line Liters (CID) 1.6 (96.8)

ABBREVIATIONS

Control

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 **C**FI-Central Fuel ESAC-Electronic Spark Advance 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 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

Fuel System

VEHICLE MODELS :		AW11	MR2 AW11L-WJMQF -WJPQF	
Engine:	Front	 Mid.	<u>x</u>	R

RWD

х

Rear ____

4WD Full time _____ 4WD Part time _____

Diagnostics TC-Turbocharger SC-Supercharger

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FWD

Drive:

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	1988 A	IR RESC	URCES E	OARD SUPPLE	IENTAL DATA S	SHEET	÷
Page Passenger Cars <u>x</u> Light-Duty Trucks Medium-Duty Vehicles Gas <u>x</u> Diesel							
Manufacturer							
Liter (CID) <u>1.6 (96.8)</u> Eng. Type <u>4 cyl. in-line</u>							
Emission Control Sys. (Special Features) EGR + HOS + TWC (EFI + SC)							
Engine code	Vehicle Models (If Coded see attachment) (Dyno Hp: Refer to 08.13.03.00)	Туре	Test Weight	Ign. System EEC.EI.ESAC Part No. [Computer]	Part No.	EGR Valve Part No.	Catalyst Part No.
1, 2	AW11L-WJMQRA	M5	2,875	89661-17130	89661- 1 7130	25620-16090	18450-16270
3, 4	AW11L-WJPQRA	A4	2,875 3,000		22250-16090 23250-16061		×.
-					29290-10001		<u> </u>

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.

Rev. 1 : 06/26/87