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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-108-1 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		placement (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
JTY1.6V5FBB3	1.6	(96.8)	Exhaust Gas Recirculation Three-Way Catalyst Heated 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	
0.19	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.

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-14-108 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 day of October, 1987.

Q.F. Donull (for Kod)

K. D. Drachand, Chief Mobile Source Division

17.11.00 Supplemental data sheets

1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET E.O. # A-14-108-1

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TC-Turbocharger

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Manufacturer Toyota Motor Corporation	Engine FamilyJTY1.6V5FBB3
Evaporative Family EV-E	Engine Type <u>4 cyl. in-line</u>
-	Liters (CID) <u>1.6 (96.8)</u>

ABBREVIATIONS

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a.

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

VEHICLE MODELS :

		<u>l. Corolla</u> AE92L-ACMVF	A AW11L-WCMQFA -WCPQFA -WJMQFA -WJPQFA	
Engine:	Front <u>1</u>	Mid2	Rear	4WD Part time
Drive:	FWD <u>1</u>	RWD _2	4WD Full time	

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E.O. # A-14-108-1 17.11.00 1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page Passenger Cars x Light-Duty Trucks Medium-Duty Vehicles Gas x Diesel Manufacturer <u>Toyota Motor Corporation</u> Engine family <u>JTY1.6V5FBB3</u> 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 + OBD) Engine Vehicle Models Trans. Equiv. Ign. System Fuel System EGR Valve Catalyst (If Coded see Test EEC, BI, ESAC CL, EFI code attachment) Type Weight Part No. Part No. Part No. Part No. (Dyno Hp: Refer [Computer] [Computer] to 08.13.03.00) [Air flow meter] [Injector] 1 thru 4 AE92L-ACMVFA M5 89661-12240 89661-12240 25620-16040 18450-16210 2,750 22250-16060 23250-16080 5 & 6 AW11L-WCMQFA M5 2,750 89661-17200 89661-17200 25620-16031 18450-16260 -WJMOFA 2.875 22250-16040 23250-16080 5R1 & 6R1 AW11L-WCMOFA M5 2,750 89661-17201 -WJMOFA 2,875 22250-16040 23250-16080 7 & 8 AW11L-WCPOFA A4 2.875 89661-17200 ~WJPQFA 89661-17201 22250-16040 23250-16080

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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88-TR-5 : 10/31/87

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