State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-123 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 light-duty trucks:

Engine Family	Displacement Liters (Cubic Inches)		Exhaust Emission Control Systems (Special Features)		
JTY2.4T5FBT1	2.4	(144.4)	Exhaust Gas Recirculation Oxygen Sensor Three-Way Catalyst (Electronic Port Fuel Injection) (Turbocharger)		

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

The following are the emission standards for this engine family:

Loaded Vehicle Hydrocarbons Weight Grams per Mile		Carbon Monoxide Grams per mile	Nitrogen Oxides Grams per Mile
0-3750	0.39	9.0	1.0

The following are the certification emission values for this engine family:

Loaded Vehicle Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0-3750	0.15	2.3	0.1

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 27⁴ day of August, 1987.

K. D. Drachand, Chief Mobile Source Division

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17.11.00 Supplemental data si	neets	
1988 AIR RES	SOURCES BOARD SUPPLEMENTAL DATA SH	EET E.O. # $4 - 14 - 12$
•		Page 1
Manufacturer Toyota Motor Corpo	oration Engine Family	4T5FBT1
Evaporative Family EV-E	Engine Type 4 cyl.	in-line
<u> </u>	Liters (CID)2.4	
ABBREVIATIONS		
Ignition System CA-Centrifugal Advance ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard	Exhaust Emissions Control System AIP-Air Injection-Pump AIV-Air Injection-Valve DBC-Dual Bed Catalyst EGR-Exhaust Gas Recirculation EIC-Electronic Injection Control EM-Engine Modification OC-Oxidation Catalyst OS-Oxygen sensor HOS-Heated Oxygen Sensor SPL-Smoke Puff Limiter or Throttle Delay	Special Features CCV-Combustion Chamber Valve CFI-Central Fuel Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic
Fuel System CFI, CL, DID, DIP, EFI, MFI nV-nVenturi Carburetor VEHICLE MODELS:	TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical TWC-Three-Way Catalyst WUOC-Warm-Up Oxidation Catalyst WUTWC-Warm-Up Three-Way Catalyst	Fuel Injection IC-Intercooler or aftercooler MFI-Mechanical Fuel Injection OBD-On-Board Diagnostics TC-Turbocharger
<u>Truck</u> RN55L-1		
Engine: Front x Mid Drive: FWD RWD	Rear k_ 4WD Full time 4WD Pa	rt time

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	1988 AI	ir resou	JRCES BO	ARD SUPPLEME	ental data sh	ibet	
, Passenger	Cars Light-Du	ity Truc	cks <u>x</u>	Medium-Duty	Vehicles		e2 esel
Manufactur	er <u>Toyota Mot</u>	or Cor	oration	Engine	e family	JTY2.4T	FBT1
Liter (CID	2.4	(144.4)		Eng. 1	Type 4 cyl.	in-line	
Emission C	Control Sys. (Spec	cial Fe	atures)	EGR +	OS + TWC (E	rı + TC)	
Engine code	Vehicle Models (If Coded see attachment) (Dyno Hp: Refer to 08.13.03.00)	Туре	Test Weight	EEC, EI, ESAC	CL. EFI Part No. [Computer]		Catalyst Part No.
1. 2	RN55L-MSCZA	м5	3,125	89615-35010			18450-35060

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.

Note *1 Maker: 89615-35010: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

89615-35020 : NIPPONDENSO CO., LTD.

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