State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-121-1
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 light-duty trucks:

Engine Family	Displacement Liters (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
JTY2.4T5FBBO	2.4 (144.4)	Air Injection - Valve 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:

Loaded Vehicle Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per mile	Nitrogen Oxides Grams per Mile
0-3750	0.39	9.0	1.0
3751-5750	0.50	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	0.8	0.2
3751-5750	0.22	2.4	0.2

BE IT FURTHER RESOLVED: That the listed models in the 0-3750 loaded vehicle weight class 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 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, for some of the listed vehicles in the 0-3750 loaded vehicle weight class, 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-14-121 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.

A. F. Donnelly (for KDD)
K. D. Drachand, Chief
Mobile Source Division

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Manufacturer Toyota Motor Corporation

Engine Family JTY2.4T5FBB0

Evaporative Family EV-E

Engine Type 4 cyl. in-line

Liters (CID) 2.4 (144.4)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
ECU-Electronic Control Unit
EI-Electronic Ignition
ESAC-Electronic Spark Advance Control
VA-Vacuum Advance
VR-Vacuum Retard

Fuel System

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
EIC-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
TC-Turbocharger

VEHICLE MODELS :

1.Truck 2WD*	2. 1-ton Truck 2WD*	3. Cab & Chassis 2WD**	4. Truck 4WD*	5. 4-Runner 4WD**
RN50L-SREA	RN55L-MRHEA	RN55L-KREA3W	RN61L-MREA	RN61LV-MDEA
RN55L-SDEA	-SRHEA	-KRTEA3W	-MSEA	
-SREA		-SREA3W	RN66L-MDEA	
-MSCEA		-SRTEA3W	-PDEA	
-PSCEA		RN75L-KRTEA3W	-MSCEA	
RN70L-SDCEA		-PRTEA3W	-MDCEA	
-PSCEA			-PDCEA	
			-PSCEA	

Engine: Front 1 thru 5 Mid. ____ Rear ____

Drive: FWD ____ RWD 1,2,3 4WD Full time ____ 4WD Part time 4,5

* 2 yr/24K emission warranty
** 5 yr/50K emission warranty

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1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars ___ Light-Duty Trucks x Medium-Duty Vehicles ___ Gas x Diesel ___

Manufacturer Toyota Motor Corporation Engine family JTY2.4T5FBB0

Liter (CID) 2.4 (144.4) Eng. Type 4 cyl. in-line

Emission Control Sys. (Special Features) AIV + EGR + HOS + TWC (EFI + OBD)

Engine code	Vehicle Models (If Coded see attachment) (Dyno Hp: Refer to 08.13.03.00)	Trans. Type	Equiv. Test Weight	Ign. System EEC,EI,ESAC Part No. [Computer] [Knock sensor] *1	Fuel System CL, EFI Part No. [Computer] [Air flow meter] [Injector]	EGR Valve Part No.	Catalyst Part No.
1 thru 4	RN55L-MRHEA -MSCEA	M5	3,000 3,125	89661-35130 89615-35030 89615-35040	89661-35130 22250-35020 23250-35030	25620-35100	18450-73040
5 thru 8	RN55L-KREA3W -KRTEA3W RN75L-KRTEA3W	M4	4,000	89661-35140 89615-35030 89615-35040	89661-35140 22250-35020 23250-35030	25620-35130	
9 thru 12	RN50L-SREA RN55L-SDEA -SREA -PSCEA -SRHEA RN70L-SDCEA -SRCEA	A4	2,875 3,000 3,125 3,250	89661-35130 89615-35030 89615-35040	89661-35130 22250-35020 23250-35030	25620-35100	
13 thru 16	RN55L-SREA3W -SRTEA3W -PRTEA3W		4,000	89661-35140 89615-35030 89615-35040	89661-35140 22250-35020 23250-35030	25620-35130	
17 thru 20	RN61L-MREA -MSEA RN66L-MDEA -MDCEA -MSCEA	M5	3,500 3,625	89661-35130 89615-35030 89615-35040	89661-35130 22250-35020 23250-35030	25620-35100	

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Engine code	Vehicle Models (If Coded see attachment) (Dyno Hp: Refer to 08.13.03.00)	Trans. Type	Equiv. Test Weight	Ign. System EEC,EI,ESAC Part No. [Computer] [Knock sensor]*1	Fuel System CL, EFI Part No. [Computer] [Air flow meter] [Injector]	EGR Valve Part No.	Catalyst Part No.
21 thru 24	RN61LV-MDEA	M5	3,750 3,875	89661-35130 89615-35030 89615-35040	89661-35130 22250-35020 23250-35030	25620-35130	18450-73040
25 thru 28	RN66L-PDEA -PDCEA -PSCEA	A4	3,625 3,750				

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 : 89615-35030 : MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.
89615-35040 : NIPPONDENSO CO., LTD.