SEE E.O. A-M-121-1

(Page 1 of 2)



EXECUTIVE ORDER A-14-121 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 qasoline-powered light-duty trucks:

Engine Family	Displacement Liters (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
JTY2.4T5FBB0	2.4 (144.4)	Air Injection - Valve Exhaust Gas Recirculation
		Heated Oxygen Sensor Three-Way Catalyst (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:

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 Wehicle 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, 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.

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 Mobile Source Division

1988 AIR RE	Sources board supplemental data si	HEET E.O. #
		Page1
Manufacturer Toyota Motor Corr	oration Engine Family	. 4T5FB80
Evaporative FamilyEV-E		
	Liters (CID) 2.4	(144.4)
ABBREVIATIONS		
•	Exhaust Emissions Control System	Charles Posturae
Ignition System		CCV-Combustion
CA-Centrifugal Advance	AIP-Air Injection-Pump	Chamber Valve
ECU-Electronic Control Unit EI-Electronic Ignition	AIV-Air Injection-Valve DBC-Dual Bed Catalyst	CFI-Central Puel
	EGR-Exhaust Gas Recirculation	Injection
Control	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 Fuel Injection
Dun L. Eusten	TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical	IC-Intercooler
<u>Puel System</u> CFI, CL, DID, DIP, EPI, 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
		Diagnostics
		TC-Turbocharger
VEHICLE MODELS :		
the second of the second	k 2WD* 3. Cab & Chassis 2WD** 4. T	ruck 4WD* 5. 4-Runner 4WD
1.Truck 2VD* 2. 1-ton Truc RN50L-SREA RN55L-MRHEA	RN55L-KREA3W RN61	L-MREA RN61LV-MDEA
RN55L-SDEA -SRHEA		-MSEA
-SREA	7	L-MDEA
-MSCEA	-SRTEA3W	-PDEA
-PSCEA	RN75L-KRTEA3W	-MSCEA
RN70L-SDCEA	-PRTEA3W	-MDCEA
-PSCEA		-PDCEA
		-PSCEA
Engine: Front 1 thru 5 Mid	Pear	
Dadica DD DUD 1	2 2 AUT Dull + imp AUT D	AFF FIME 4.7

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

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1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger •	Cars Light-D	uty Tru	cks <u>x</u>	Medium-Duty	Vehicles		e 2 esel
Manufacturer Toyota Motor Corporation Engine family JTY2.4T5FBB0							
Liter (CID	Liter (CID) 2.4 (144.4) Eng. Type4 cyl. in-line						
Emission Co	Emission Control Sys. (Special Features) AIV + EGR + MOS + TWC (EFI)						
Engine code	Vehicle Models (If Coded see attachment) (Dyno Hp: Refer to 08.13.03.00)	Trans.	Test	Ign. System EEC.EI.ESAC Part No. [Computer] [Knock *1 sensor]	CL, EFI Part No. [Computer]	EGR Valve	Catalyst Part No.
1 thru 4	RN55L-MRHEA -MSCEA	M5	3,000		89661-35130 22 25 0-35020 23250-35030	1	18450~73040
5 thru 8	RN55L-KREA3W -KRTEA3W RN75L-KRTEA3W	M4	4,000		89661-35140 22250-35020 23250-35030		
9 thru 12	RN50L-SREA RN55L-SDEA -SREA -SREA -SRHEA RN70L-SDCEA -SRCEA	A4	3,000	89661-35130 89615-35030 89615-35040	22250-35020		
13 thru 16	RN55L-SREA3W -SRTEA3W -PRTEA3W		4,000		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	22250-35020	25620-35100	

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Engine	Vehicle Models (If Coded see	Trans.	Equiv. Test	Ign. System EEC,EI,ESAC		EGR Valve	Catalyst
code	attachment) (Dyno Hp: Refer to 08.13.03.00)	7	Weight	Part No. [Computer] [Knock sensor]*1	Length Colors	Part No.	Part No.
1 thru 24	RN61LV-MDEA	M5	3,750 3,875	89615-35030	89661-351 30 22250-3502 0 23250-35030		18450-730
5 thru 28	RN66L-PDEA -PDCEA -PSCEA	A4	3,625 3,750	99013-33040	23250-35030		,

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.

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