E.O. A-14-122-1

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EXECUTIVE ORDER A-14-122 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:

	Displacement	Exhaust Emission Control Systems
Engine Family	Liters (Cubic Inches)	(Special Features)
JTY2.4T5FBE3	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	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
Weight	Grams per Mile	Grams per mile	Grams per Mile
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	
3751-5750	0.23	2.8	0.2	

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.).

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 C Mobile Source Division

17.11.00 Supplemental data sr	neets	_
1988 AIR RES	SOURCES BOARD SUPPLEMENTAL DATA SHI	SET E.O. # $A - 14 - 122$
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Manufacturer Toyota Motor Corpo	oration Engine Family	AT5FBE3
Evaporative Family EV-E	Engine Type 4 cyl	. in-line
	Liters (CID) 2.4	(144.4)
ABBREVIATIONS		
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	CFI-Central Fuel
ESAC-Electronic Spark Advance	EGR-Exhaust Gas Recirculation	Injection
Control	EIC-Electronic Injection Control	DID-Diesel
VA-Vacuum Advance VR-Vacuum Retard	EM-Engine Modification OC-Oxidation Catalyst	Injection- Direct
VK-Vacuum Retaid	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
Fuel System	TOP-Trap Oxidizer, Periodical	IC-Intercooler
CFI, CL, DID, DIP, EFI, MFT	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:	Y	10 141 200 Hall 901
4-Runner 4WD RN61LG-MDEA -MSEA RN61LV-MSEA -PDEA		
-PSEA Rnging: Front x Mid.	Rear	

4WD Full time 4WD Part time x

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Drive: FWD

_ RWD _

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	1988 A	R RESOU	JRCES BO	DARD SUPPLEME	ENTAL DATA SH	IEET	,
Passenger (Cars Light-Du	ity Truc	cks <u>x</u>	Medium-Duty	Vehicles		e
Manufacture	er <u>Toyota Mo</u>	or Cor	poration	Engine	e family	JTY2.4T5	FBE3
Liter (CID)	2.4	(144.4)		Eng. 1	Type 4 cyl.	in-line	
Emission Co	ontrol Sys. (Spec	cial Fea	atures)	AIV	+ EGR + HOS	+ TWC (EFI)	
Engine	Vehicle Models (If Coded see attachment) (Dyno Hp: Refer to 08.13.03.00)	Туре	Test Weight	EEC,EI.ESAC Part No. [Computer] [Knock *1	CL, EFI Part No. [Computer]		Catalyst
21 thru 24	RN61LG-MDEA -MSEA RN61LV-MSEA	м5		89615-35030	89661-35130 22250-35020 23250-35030		18450-73040
25 thru 28	RN61LV-PDEA -PSEA	A4	3,875				

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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