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State of California AIR RESOURCES BOARD

SEE E.O. A-14-118-1 EXECUTIVE ORDER A-14-118 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
<u>Engine Family</u>	Liters (Cubic Inches)	(Special Features)
JTY2.2T5FBD1	2.2 (136.5)	Exhaust Gas Recirculation Three-Way Catalyst Heated Oxygen Sensor Oxygen Sensor (After 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:

Loaded Vehicle <u>Weight</u>	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	0.17	1.8	0.3
3751-5750	0.16	1.7	0.2

TOYOTA MOTORS CORPORATION

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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 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^{14} day of August, 1987.

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K. D. Drachand, Chief Mobile Source Division

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1988 AIR RE	SOURCES BOARD SUPPLEMENTAL DATA SH	IEET Е.О. # <u>А-14-11</u> 8
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Manufacturer <u>Toyota Motor Corp</u>	oration Engine FamilyJTY2.	2T5FBD1
Evaporative FamilyEV-E	Engine Type <u>4 cyl.</u>	in-line
	Liters (CID)2.2	
ABBREVIATIONS		
ADDUDT INTIMO		
Ignition System	Exhaust Emissions Control System	Charlel Rostunes
CA-Centrifugal Advance		Special Features CCV-Combustion
ECU-Electronic Control Unit	AIP-Air Injection-Pump AIV-Air Injection-Valve	Chamber Valve
EI-Electronic Ignition	DBC-Dual Bed Catalyst	CFI-Central Fuel
ESAC-Electronic Spark Advance		Injection
Control	EIC-Electronic Injection Control	
VA-Vacuum Advance	EM-Engine Modification	Injection-
VR-Vacuum Retard	OC-Oxidation Catalyst	Direct
	OS-Oxygen sensor	DIP-Diesel
	HOS-Heat ed Oxygen Sens or SPL-Smoke Puff Limiter or	Injection- Prechamber
	Throttle Delay	EFI-Electronic
	TOC-Trap Oxidizer, Continual	Fuel Injection
Fuel_System	TOP-Trap Oxidizer, Periodical	IC-Intercooler
CFI, CL, DID, DIP, EFI, 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
		ie iurboenarger
VEHICLE MODELS :		
	Van 4WD (Cargo)	
	YR32LV-MRBEA	
	-PRBEA	
Province Pront y Mid	Daar	
Engine: Front <u>x</u> Mid		
Drive: FWD RWD	4WD Full time 4WD Pa	irt time <u>x</u>

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	1988 AIR RESOU	RCES BOARD SU	IPPLEMENTAL D	ATA SHEET		
					Page	
Passenger Cars _	Light-Duty Truck	cs <u>x</u> Medium	-Duty Vehicle	es Gas <u>_x</u>	_Diesel _	
Manufacturer	Toyota Motor Corpo	<u>pration</u>	Engine family	у	2.2T5FBD1	
Liter (CID)	2.2 (136.5)		Eng. Type	4 cyl. in-lin	2	
Emission Control	Sys. (Special Feat	ures)	EGR + OS +	HOS + TWC (E)	FI)	

Engine	Vehicle Models (If Coded see	Trans. Type	-	Ign. System EEC.EI.ESAC		EGR Valve	Catalyst
code	attachment) (Dyno Hp: Refer to 08.13.03.00)			Part No. [Computer]	Part No.	Part No.	Part No.
1, 2	YR32LV-MRBEA	M5	3,750 3,875	89661-28090	22250-73010	25620-73070	18450-73120
3, 4	YR32LV-PRBEA	A4	3,750 3,875		23250-73010		

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.

