SEE E.O. A-14-117-1

(Page 1 of 2)

State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-117 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 6-45-3 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)
1TVO OTCCORV	2.2 (136.5)	Eubapat Cas Designaulation
JTY2.2T5FBBX	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 Weight	Hydrocarbons 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:

Vehicle	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
Weight	Grams per Mile	Grams per Mile	Grams per Mile
0-3750	0.26	2.4	0.5

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 vear.

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 26 day of August, 1987.

K. D. Drachand, Chief

Mobile Source Division

17.11.00 Supplemental data s	heets	
1988 AIR RE	SOURCES BOARD SUPPLEMENTAL DATA SH	
		Page 1
Manufacturer Toyota Motor Corp	oration Engine FamilyJTY2.	2T5FBBX
Evaporative FamilyEV-E	Engine Type 4 cyl	. in-line
	Liters (CID) 2.2	(136.5)
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		Injection
Control	EIC-Electronic Injection Control	
VA-Vacuum Advance	EM-Engine Modification	Injection-
VR-Vacuum Retard	OC-Oxidation Catalyst OS-Oxygen sensor	Direct 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, 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
		to fullycliat get
VEHICLE MODELS :		
Van 2WD (Passe		
YR 2 2LG-MDE -MQE		
-PDE		
-POE		

Mid. ____ Rear ____

RWD x 4WD Full time 4WD Part time

Page : 17.11-49
Issued : 05/26/87

Engine: Front x

Drive:

	1988 A	IR RESO	URCES BO	OARD SUPPLEM	ental data si		;
Passenger (Cars Light-D	ity Truc	cks <u>x</u>	Medium-Duty	Vehicles		e2 esel
Manufactur	er <u>Toyota Mo</u>	tor Cor	poration	n Engine	e family	JTY2.2T	FBBX
Liter (CID)2.2	(136.5)		Eng. 1	Type 4 cyl.	in-line	
Emission Control Sys. (Special Features) EGR + OS + HOS + TWC (EFI)							
Engine	Vehicle Models (If Coded see	Trans.		Ign. System EEC,EI,ESAC		EGR Valve	Catalyst
code	'			Part No. [Computer]	Part No.	Part No.	Part No.
1 thru 4	YR22LG-MDEA -MQEA YR23LV-MDEA YR29LV-MREA -MRBEA	M5	3,250 3,375 3,500 3,625 3,625	89661-28090	89661-28090 22250-73010 23250-73010	25620-73010	18450-73110
5 thru 8	YR22LG-PDEA -PQEA YR23LV-PDEA	A4	3,250 3,375 3,500				

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.

3,625

: 17.11-50 Page Issued: 05/26/87

YR29LV-PREA

-PRBEA