SEE E.O. A-14-112-State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-112 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 passenger cars:

Engine Family	Displacement Liters (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
JTY2.0V5FBG2		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:

Hydrocarb on s	Carbon Monoxide	Nitrogen Oxides
Grams p er Mile	Grams per mile	Grams per Mile
0.39	7.0	0.7

The following are the certification emission values for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides		
Grams per Mile	Grams per Mile	Grams per Mile		
0.24	1.7	0.3		

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.

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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.) 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 C Mobile Source Division

17.11.00 Supplemental data sheets

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1988 AIR RE	ESOURCES BOARD SUPPLEMENTAL DATA SH	EET E.O. # A-14-1
		Page 1
Manufacturer Toyota Motor Corr	oration Engine Family JTY2.	0V5FBG2
Evaporative FamilyEV-E	Engine Type 4 cyl.	in-line
	Liters (CID) 2.0	(121.9)
ABBREVIATIONS		
Ignition System	Exhaust Emissions Control System	Special Features
CA-Centrifugal Advance ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard	AIP-Air Injection-Pump AIV-Air Injection-Valve DBC-Dual Bed Catalyst	CCV-Combustion Chamber Valve CFI-Central Fuel Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic Fuel Injection
Fuel System	TOP-Trap Oxidizer, Periodical	IC-Intercooler
CFI, CL, DID, DIP, EFI, MFI	TWC-Three-Way Catalyst	or aftercooler
nV-nVentur1 Carburetor	WUOC-Warm-Up Oxidation Catalyst WUTWC-Warm-Up Three-Way Catalyst	MFI-Mechanical Fuel Injection OBD-On-Board Diagnostics TC-Turbocharger
	ica -BCMVFA -BCPVFA -BLMVFA	

Engine:	Front	<u> </u>	Mid.	Rear	
Drive:	FWD	<u>x</u>	RWD	4WD Full time	4WD Part time

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1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger	Cars <u>x</u> Light-D	uty Tru	cks	Medium-Duty	Vehicles	Gas x Di	esel
	er <u>Toyota Mo</u>						_
Liter (CID	2.0	(121.9)		Eng.	Type <u>4 cyl</u>	. in-line	
Emission C	ontrol Sys. (Spe	cial Fe	atures)		EGR + HOS +	TWC (EFI)	Y —
Engine code	Vehicle Models (If Coded see attachment) (Dyno Hp: Refer to 08.13.03.00)	Туре	Test	Ign. System EEC.EI.ESAE Part No. [Computer]	CL, EFI Part No.		Catalyst Part No.
1, 2	ST162L-BCMVFA -BLMVFA	M5	3,125	89661-20320	89 661-20320 22 2 50-74060 23250-74050		18450-74120
3, 4	ST162L-BCPVFA	A4	3,125				

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.

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