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### State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-105 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		placement (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
JTY1.5V1FCC6	1.5	(88.9)	Air Injection - Valve Exhaust Gas Recirculation Three-Way Catalyst Oxygen Sensor

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
<u>Grams per Mile</u>	Grams_per_mile	<u>Grams per Mile</u>
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	<u>Grams per Mile</u>	
0.22	5.2	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.

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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

12<sup>#</sup> day of August, 1987. mmunu

K. D. Drachand, Chief Mobile Source Division

# 17.11.00 Supplemental data sheets

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Manufacturer <u>Toyota Motor Corporation</u>	Engine FamilyJTY1.5V1FCC6
Evaporative Family <u>EV-3E</u>	Engine type <u>4 cyl. in-line</u>
	Liters (CID) <u>1.5 (88.9)</u>

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	EM-Engine Modification	Injection-
VR-Vacuum Retard	OC-Oxidation Catalyst	Direct
<u>Fuel System</u> CFI, CL, DID, DIP, EFI, MFI nV-nVenturi Carburetor	OS-Oxygen sensor HOS-Heated Oxygen Sensor SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical TWC-Three-Way Catalyst WUOC-Warm-Up Oxidation Catalyst WUTWC-Warm-Up Three-Way Catalyst	DIP-Diesel Injection- Prechamber EFI-Electronic Fuel Injection IC-Intercooler or aftercooler MFI-Mechanical Fuel Injection OBD-On-Board Diagnostics TC-Turbocharger

### VEHICLE MODELS :

	Tercel EZ	<u> </u>	fercel		
	EL31L-NGKBSA	EL31L-ZDMRSA	EL31L-ZGKRSA		
		-ZDMDS/	A –ZGMRSA		
		-ZDHRS/	A -ZGMDSA		
		-ZDHDSA	A –ZGHRSA		
		-ZHMDSA	A –ZGHDSA		
		-ZHHDSA	A		
Engine:	Front <u>x</u>	Mid	Rear		
Drive:	FWD X	RWD	4WD Full time	4WD Part	time
					,

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 Passenger Cars \_x\_ Light-Duty Trucks \_\_\_\_ Medium-Duty Vehicles \_\_\_\_ Gas \_x\_ Diesel \_\_\_\_
 Manufacturer \_\_\_\_\_ Toyota Motor Corporation \_\_\_\_\_ Engine family \_\_\_\_\_ JTY1.5V1FCC6

 Liter (CID) \_\_\_\_\_\_ 1.5 (88.9)
 Eng. Type \_\_\_\_\_ 4 cyl. in-line

 Emission Control Sys. (Special Features) \_\_\_\_\_\_ AIV + EGR + OS + TWC

Engine	Vehicle Models (If Coded see	Trans.	Equiv. Test	Ign. System EI, CA, VA	Fuel System lV(VV), CL	EGR Valve	Catalyst
code	attachment) (Dyno Hp: Refer to 08.13.03.00)	Туре	Weight	Part No. [Distribu- tor]	Part No. [Carbure- tor]	Part No.	Part No.
l thru 4 lRl thru	& EL31L-NGKBSA -ZGKRSA	M4	2,250	19030-11010	*1 21100-11421 *2	25620-11070	18450-11040
4R1	-ZDMDSA -ZDMRSA -ZGMDSA -ZGMRSA -ZHMDSA	M5	2,375 2,500		-2 21100-11422		
5 thru 8 5Rl thru 8Rl	& EL31L-ZDHRSA -ZDHDSA -ZGHRSA -ZGHDSA -ZHHDSA	АЗ	2,375 2,500		*1 21100-11431 *2 21100-11432	25620-11080	

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 : Before running change 88-TR-2 \*2 : After running change 88-TR-2

Rev. 4 : 07/28/87