State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-92 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 1987 model-year Toyota Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displacement Cubic Inches (Liters)		Exhaust Emission Control Systems (Special Features)		
HTY1.5V1FCC2	88.9	(1.5)	Air Injection-Valve Exhaust Gas Recirculation Oxygen Sensor Three-Way Catalyst		

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
Grams per 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	<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.

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 1981 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 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 31st day of July, 1986.

K. D. Drachand, Chief Mobile Source Division

Bob Cross for

17.10.00 Supplemental data s	heets	
1987_AIR RE	SOURCES BOARD SUPPLEMENTAL DATA SH	BET E.O. # 1-14-
		Page 1
Manufacturer Toyota Motor Corp	oration Engine Family HTY1.	5V1FCC2
Evaporative Family EV-3	BE Engine type 4 cyl	. in-line
	Liters (CID)1.5	(88.9)
ABBREVIATIONS	• •	·
		•
Ignition System	Exhaust Emissions Control System	Special Features
CA-Centrifugal Advance	AIP-Air Injection-Pump	CCV-Combustion
EEC-Electronic Engine Control	-	.Chamber Valve
EI-Electronic Ignition	CL-Closed Loop	CFI-Central Puel
ESAC-Electronic Spark Advance	EGR-Exhaust Gas Recirculation	Injection
Control VA-Vacuum Advance	EM-Engine Modification OC-Oxidation Catalyst System	DID-Diesel Injection-
VR-Vacuum Retard	SPL-Smoke Puff limiter or	Direct
	Throttle Delay	DIP-Diesel
	TOC-Trap Oxidizer Continual	Injection-
	TOP-Trap Oxidizer Periodical TR-Thermal Reactor	Prechamber EFI-Electronic
	TWC-Three Way Catalyst System	Fuel Injection
Fuel System -		IC-Intercooler
CFI, CL. DID, DIP, EFI, MFI		or aftercooler
nV-nVenturi Carburetor		MFI-Mechanical
	**	Fuel Injection TC-Turbocharger
		10 1410001141 301
VEHICLE MODELS :		
Tar	cel Te rcel	
	ZGKRSA EL31L-ZDHRSA	
-	ZDMRSA -ZDHDSA	
	ZDMDSA -ZGHRSA	
-	ZGMDSA -ZGHDSA -ZHHDSA	
	Diamon't	
Engine: Front <u>x</u> Mid	Rear	
Drive: FWD x RWD	4WD Full time 4WD Pa	rt time

Page : 17-38

Issued: 05/27/86

	1987 A	ir resou	URCES BO	DARD SUPPLEM	ental data si		e <u> 2 </u>
Passenger (Cars <u>x</u> Light-D	ity Truc	cks	Medium-Duty	Vehicles	_	
Manufacture	er <u>Toyota Mo</u>	tor Corr	poration	nEngine	e family	HTY1.5V	1FCC2
Liter (CID)	1.5	(88.9)		Eng. 5	Type 4 cyl	. in-line	
emission Co	ontrol Sys. (Spec	cial Fea	atures)		AIV + CL + I	EGR + TWC	
Engine	Vehicle Models (If Coded see			lgn. Syst em EI, CA, VA		EGR Valve	Catalyst
code	attachment) (Dyno Hp: Refer to 08.13.03.00)	Туре	Weight	Part No. [Distribu- tor]	Part No. [Carbure-	Part No.	Part No.
l thru 4	EL31L-ZGKRSA -ZDMRSA -ZDMDSA -ZGMDSA	<u>M4</u> M5	2.250 2,375	19030-11010	21100-11420	25620-11070	18450-11040
5 thru 8	EL31L-ZDHRSA -ZDHDSA -ZGHRSA -ZGHDSA	АЗ	2,375 2,500		21100-11430	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.

Page : 17-39

Issued : 05/27/86

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