State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-141-B Relating to Certification of New Motor Vehicles

TOYOTA MOTOR 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 1989 model-year Toyota Motor Corporation exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

Engine Family	Displacement <u>Liters (Cubic Inches)</u>		Exhaust Emission Control Systems (Special Features)			
KTY2.2T5FBD2	2.2 (136.5)		Exhaust Gas Recirculation Three-Way Catalyst Oxygen Sensor Heated Oxygen Sensor (Electronic Port Fuel Injection) (On-Board Diagnostics)			

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(ibs.)	Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)	
3751-5750	0.50	9.0	1.0	
The following are	the certification e	mission values for thi	s engine family:	
Loaded Vehicle Weight(ibs.)	Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)	
3751-5750	0.19	2.1	0.2	

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 aitlitude 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 also comply with 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 18 d

K. D. Drachand, Chief Mobile Source Division

17.11.00 Supplemental data s	heets Sources board supplemental data sh	BET B.O. # <u>A-14-</u> 141-B	
Manufacturer Toyota Motor Corp Evaporative Family EV-E ABBREVIATIONS		in-line	
Ignition System CA-Centrifugal Advance BCU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard	(Diesel Only) EM-Engine Modification SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical	CFI-Central Fuel Injection or Throttle Body Injection EPFI-Electronic Port Fuel Injection MPFI-Mechanical Port Fuel injection SFI-Sequential Fuel Injection	
Fuel System CFI, EPFI, MPFI, SFI, DID, DIP, HOS, OS NV-nVenturi Carburetor VV-Variable Venturi Carburetor	DBC-Dual Bed Catalyst OC-Oxidation Catalyst TWC-Three-Way Catalyst WUOC-Warm-up Oxidation Catalyst WUTWC-Warm-up Three-Way Catalyst OS-Oxygen Sensor HOS-Heated Oxygen Sensor	DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber TC-Turbocharger SC-Supercharger IC-Intercooler or Aftercooler CCV-Combustion Chamber Valve OBD-On-Board Diagnostics	
	<u>4WD (Cargo)</u> ZLV-PRBEA (with air conditioner)		
Engine: Front <u>x</u> Mid Drive: FWD RWD		art time <u>x</u>	

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	1989 A.	LK RESO	JRCES BO	DARD SUPPLEM	ENTAL DATA SI	•-	e <u> 2 </u>
Passenger	Cars Light-De	uty Tru	cks <u>x</u>	Medium-Duty	Vehicles		
Manufactu	rer <u>Toyota Mo</u>	tor Cor	poration	n Engin	e family	KTY2.2T	5FBD2
Liter (CI	D)2.2	(136.5)		Eng.	Type 4 cyl	. in-line	
Emission Control Sys. (Special Features) BGR + TWC + OS + HOS (EPFI + OBD)							
Engine code	_	1	Test	ECU, EI, ESAC Part No.	Fuel System CL. EPFI Part No. [Computer] [Air flow meter] [Injector]		Catalyst Part No.
4	YR32LV-PRBEA	A4	3,875	8966128091	89661-28091 22250-73010 23250-73010		18450-43051 (E59)*1

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.

Note *1 : Parenthetial information represents identifying marks found on production parts

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