## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-14-128 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 passenger cars:

Engine Family	Displacement <u>Liters (Cubic Inches)</u>		Exhaust Emission Control Systems (Special Features)			
KTY1.5V1FCC7	1.5	(88.9)	Air injection - Valve Exhaust Gas Recirculation Three-Way Catalyst Oxygen Sensor (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:

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)	(Grams per Mile)		
0.26	4.9	0.3		

BE IT FURTHER RESOLVED: That the listed models are 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 vehicle manufacturer is certifying to the optional NOx standards by providing evidence that there are sufficient projected sales of vehicles certifying to the primary NOx standard, or is allowed a delay in implementation under small volume manufacturer provisions, or is allowed a delay in implementation under small! Volume manufacturers provisions, or is allowed a delay in implementation under the "in lieu" standards, or is certifying passenger cars weighing more than 5250 lbs. loaded vehicle weight.

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 also comply with the "Maifunction 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 the 2 year/24,000 mile warranty provisions of 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 \_\_\_\_\_ da

day of August, 1988.

K. D. Drachand, Chief Mobile Source Division

1989 AIR RE	SOURCES BO	DARD SUPPLEMEN	TAL DATA SH		A-14-128	
Manufacturer Toyota Motor Corp	oration	Engine Family	KTY1.			
Evaporative Family EV-3E		Engine type			-	
arapotative tuning	<u> </u>	Liters (CID)			_	
ABBREVIATIONS				(00.7/	-	
Ignition System	Exhaust E	missions Cont	rol System	Special Feat	ures	
CA-Centrifugal Advance  BCU-Electronic Control Unit  EI-Electronic Ignition  ESAC-Electronic Spark Advance  Control  VA-Vacuum Advance  VR-Vacuum Retard  TOC-Ti  TOP-Ti  DBC-Du  OC-Oxi  Fuel System  CFI, EPFI, MPFI, SFI,  DID, DIP, HOS, OS  NV-NVenturi Carburetor  AIP-A: AIV-A: AIV		Air Injection - Pump Air Injection - Valve Exhaust Gas Recirculation Electronic Injection Control (Diesel Only) Ingine Modification Smoke Puff Limiter or Entrottle Delay Frap Oxidizer, Continual Erap Oxidizer, Periodical Oual Bed Catalyst Indiation Catalyst Charm-up Oxidation Catalyst C-Warm-up Three-Way Catalyst Trygen Sensor Heated Oxygen Sensor		CFI-Central Fuel Injection or Throttle Body Injection  RPFI-Electronic Port Fuel Injection  MPFI-Mechanical Port Fuel injection  SFI-Sequential Fuel Injection  DID-Diesel Injection- Direct  DIP-Diesel Injection- Prechamber		
VEHICLE MODELS :						
	ercel					
EL31L-NGKBSA -ZDMRSA -ZDMDSA -ZDHRSA -ZDHDSA -ZDHDSA -ZHMDSA -ZHMDSA	-	ZGKBSA ZGMRSA ZGMDSA ZGHRSA ZGHDSA				
Engine: Front <u>x</u> Mid						
Drive: FWD x RWD	4WD	Pull time	4WD Par	t time		

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	1989 A	ir resou	JRCES BO	DARD SUPPLEME	ental data si		
Passenger (	Cars <u>x</u> Light-Du	ity Truc	cks	Medium-Duty	Vehicles		esel
Manufacture	er <u>Toyota Mot</u>	or Corr	oration	n Engine	e family	KTY1.5V	FCC7
Liter (CID)	1.5	(88.9)		Eng. 1	Type 4 cyl.	in-line	
Emission Co	ontrol Sys. (Spec	cial Fea	atures)	#A1741-7-A174-7-A174-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	AIV + EGR +	TWC + OS (OF	BD)
_	Vehicle Models (If Coded see		Test	EI, CA, VA	lV(VV), CL	EGR Valve	Catalyst
code	attachment) (Dyno Hp: Refer to 08.13.02.00)		Weight	Part No. [Distribu- tor]		Part No.	Part No.
-z -z -z -z -z	EL31L-NGKBSA -ZGKBSA	M4	2,250 2,375	19040-11010	21100-11422 (11422)*1	25620-11070	18450-11100 (B01)*
	-ZDMDSA -ZDMRSA -ZGMDSA -ZGMRSA -ZHMDSA	M5 2,375 2,500		(11422)		(801)	
5 thru 8, 7R1 & 8R1	EL31L-ZDHRSA -ZDHDSA -ZGHRSA -ZGHDSA -ZHHDSA	аЗ	2,375 2,500		21100-11432 (11432)*1	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.

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

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