## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-14-129 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)			
KTY1.6V2FCC6	1.6	(96.8)	Air injection - Vaive 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)		
0.21	2.6	0.4		

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.

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 Fili 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 at 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 \_\_\_\_\_\_d

\_ day of August, 1988.

K. D. Drachand, Chief Mobile Source Division 17.11.00 Supplemental data sheets

1989 AIR RE	esources i	BOARD SUPI	PLEMENTAL	DATA SH	
					Page 1
Manufacturer Toyota Motor Corp		Engine 1	Tamily	KTY1.	6V2FCC6
Evaporative Family EV-A	<u> </u>	Engine 1	type	4 cyl	. in-line
		Liters	(CID)	1.6 (	96.8)
ABBREVIATIONS					
Ignition System	Exhaust	Emissions	Control	<u>System</u>	Special Features
CA-Centrifugal Advance		Injection			CFI-Central Fuel
BCU-Electronic Control Unit		Injection	n - Valve Recirculat:	100	Injection or
BI-Electronic Ignition ESAC-Electronic Spark Advance			ijection C	-	Throttle Body Injection
Control		sel Only		J J.	EPFI-Electronic Port
VA-Vacuum Advance	EM-Engin	ne Modific	cation		Fuel Injection
VR-Vacuum Retard		te Puff Li			MPFI-Mechanical Port
		ttle Dela	y . Continua	-1	Fuel injection SFI-Sequential Fuel
			, Periodic		Injection
		Bed Cata			DID-Diesel Injection-
		tion Cata	-		Direct
Fuel System	TWC-Three-Way Catalyst				DIP-Diesel Injection-
CFI, EPFI, MPFI, SFI, DID, DIP, HOS, OS	WUOC-Warm-up Oxidation Catalyst				Prechamber TC-Turbocharger
nV-nVenturi Carburetor	WUTWC-Warm-up Three-Way Catalyst OS-Oxygen Sensor				SC-Supercharger
VV-Variable Venturi		ed Oxygen		IC-Intercooler or	
Carburetor					Aftercooler
					CCV-Combustion Chamber Valve
					OBD-On-Board
					Diagnostics
VEHICLE MODELS :					-
<b>3</b> 000	-11-				
AE92L-AEMDUA	olla AE92L-D		Corolla v AE92L-AWMI		
-aemua		EMDUA	-AWHE		
-AEHDUA	-D	EMNUA			
-ABPNUA		epnua			
-ACMXUA -ACPXUA					
ACPAUA					
Engine: Front x Mid	Rear				
			•	AUD D	et timo
Drive: FWD x RWD	4WD	rull tlm	e	4WU Pal	r cime

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1989	ATP	PRECURCES	BOARD	SUPPLEMENTAL	DATA SHE
1707	ALK	RESCURCES	BURKU	BUPPLEMENTAL	DATA SRBI

Passenger	Cars <u>x</u> Light-D	uty Tru	cks	Medium-Duty	Vehicles	_ Gas _x_ Di	esel
	rer <u>Toyota Mo</u>						2FCC6
Liter (CI	)1.6_	(96.8)		Eng. '	Type 4 cyl	. in-line	
Emission (	Control Sys. (Spec	cial Fe	atures)		AIV + BGR +	TWC + OS (O	BD)
Engine	(If Coded see	}	Test	Ign. System BI, CA, VA	2V. CL		Catalyst
code	attachment) (Dyno Hp: Refer to 08.13.02.00)		Weight	Part No. [Distribu- tor]		Part No.	Part No.
l thru 4	AE92L-AEMDUA -AEMNUA -ACMXUA -AWMDUA -DEMDUA -DEMNUA	M5	2,500 2,625	19030-16120	21100-16340 (16340) <sup>*1</sup>	25620-16070	18450-16330 (B03) <sup>*]</sup>
5 thru 8	AE92L-AEHDUA -AWHDUA -DEHDUA -AEPNUA -ACPXUA -DEPNUA	A3 A4	2,625 2,750		21100-16350 (16350) <sup>*1</sup>	25620-16080	

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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