State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-130 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)		
KTY1.6V5FCC7	1.6	(96.8)	Exhaust Gas Recirculation Three-Way Catalyst Heated Oxygen Sensor 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:

Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)	
0.30	7.0	0.4	
11 34	/ 11	11 A	

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)		
0.17	1.6	0.1		

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 "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 ______ day of August, 1988.

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

1989 AIR RE	Sources board supplemental data sh	EET 8.0. # 11-14	
		Page1	
Manufacturer Toyota Motor Corp	oration Engine Family KTYL.	6V5FCC7	
Evaporative Family EV-E	Engine Type 4 cyl.	in-line	
	Liters (CID)1.6	(96.8)	
ABBREVIATIONS			
•			
Ignition System	Exhaust Emissions Control System	Special Features	
CA-Centrifugal Advance	AIP-Air Injection - Pump	CFI-Central Fuel	
ECU-Electronic Control Unit	AIV-Air Injection - Valve	Injection or	
EI-Electronic Ignition	EGR-Exhaust Gas Recirculation	Throttle Body	
ESAC-Electronic Spark Advance	EIC-Electronic Injection Control	Injection	
Control VA-Vacuum Advance	(Diesel Only) EM-Engine Modification	EPFI-Electronic Port	
VR-Vacuum Retard	SPL-Smoke Puff Limiter or	Fuel Injection MPFI-Mechanical Port	
M. Addam Motal a	Throttle Delay	Fuel injection	
	TOC-Trap Oxidizer, Continual	SFI-Sequential Fuel	
	TOP-Trap Oxidizer, Periodical	Injection	
	DBC-Dual Bed Catalyst	DID-Diesel Injection-	
_	OC-Oxidation Catalyst	Direct	
Fuel System	TWC-Three-Way Catalyst	DIP-Diesel Injection-	
CFI, EPFI, MPFI, SFI,	WUOC-Warm-up Oxidation Catalyst	Prechamber	
DID, DIP, HOS, OS nV-nVenturi Carburetor	WUTWC-Warm-up Three-Way Catalyst	TC-Turbocharger	
W-Variable Venturi	OS-Oxygen Sensor HOS-Heated Oxygen Sensor	SC-Supercharger IC-Intercooler or	
Carburetor	nos neated oxygen sensor	Aftercooler	
		CCV-Combustion	
		Chamber Valve	
		OBD-On-Board	
		Diagnostics	
VARITAL B. MODRIC .			
VEHICLE MODELS :			
Core	olla_		
AE92L-	ACMVFA	•	
	_		
Engine: Front x Mid	Rear		
Drive: FWD x RWD	4WD Full time 4WD Pag	rt time	

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Passenger	Cars <u>x</u> Light-D			OARD SUPPLEM Medium-Duty		Page	e <u>2</u>
Manufactu	rer <u>Toyota Mo</u>	tor Cor	poratio	n Engin	e family	KTY1.6V	5PCC7
	D) 1.6 Control Sys. (Spec				,		FI + OBD)
Engine code	Vehicle Models (If Coded see attachment) (Dyno Hp: Refer to 08.13.02.00)	Type	Test	Ign. System BCU, BI, ESAC Part No. [Computer]	RPFI Part No.		Catalyst Part No.
l thru 4	AE92L-ACMVFA	M5	2,750	89661-12410	89661-12410 22250-16060 23250-16080		18450-16250 (B02) ^{*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: Parenthetical information represents identifying marks found on production parts

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