CO Buch

(Page 1 of 2)

State of California AIR RESOURCES BOARD

EXECUTIVE ORDER P-14-7 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 1988 model-year Toyota Motors Corporation federally-certified emission control systems are certified for sale in California as described below for gasoline-powered passenger cars:

Engine Family	Displacement <u>Liters (Cübic Inches)</u>		Exhaust Emission Control Systems (Special Features)		
JTY1.6V5FFF4 1.6 (96.8)		(96.8)	Exhaust Gas Recirculation Oxygen Sensor Three-Way Catalyst (Electronic Port Fuel Injection)		

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	<u>Grams per Mile</u>		
0.41	3.4	1.0		
Hydrocarbons	Carbon Monoxide	Nitrogen Oxides		
Grams per Mile	Grams per Mile	<u>Grams per Mile</u>		
0.13	0.6	0.6		

BE !T 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 "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Adminsitrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the Executive Officer has been provided evidence of federal certification of vehicle models listed in the attachments which are not available as California-certified models.

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate that the vehicle manufacturer has sufficient emissions credits for its estimated California sales of federally-certified 1988 model-year vehicles using the "Guidelines for Certification of 1983 and Subsequent Model-Year Federally Certified Light-Duty Motor Vehicles For Sale in California" (Title 13, California Administrative Code, Section 1960.5).

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 $\frac{2}{2}$ day of F

 $\frac{20}{3}$ day of February, 1988.

K. D. Drachand, Chief Mobile Source Division

17.	11.00	Supplemental	data	sheets
-----	-------	--------------	------	--------

17.11.00 Supplemental data s	neets	_
1988 AIR RE	SOURCES BOARD SUPPLEMENTAL DATA SH	EET E.O. # <u>P-14-7</u>
		Page <u>l</u>
Manufacturer Toyota Motor Corp	oration Engine Family	6V5FFF4
Evaporative FamilyEV-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 ESAC-Electronic Spark Advance	EGR-Exhaust Gas Recirculation	Throttle Body
Control	EIC-Electronic Injection Control (Diesel Only)	Injection EPFI-Electronic Port
VA-Vacuum Advance	EM-Engine Modification	Fuel Injection
VR-Vacuum Retard	SPL-Smoke Puff Limiter or	MPFI-Mechanical Port
	Throttle Delay	Fuel injection
	TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical	SFI-Sequential Fuel
	DBC-Dual Bed Catalyst	Injection DID-Diesel Injection-
	OC-Oxidation Catalyst	Direct
Fuel System	TWC-Three-Way Catalyst	DIP-Diesel Injection-
CFI. EPFI. MPFI, SFI. DID, DIP, HOS, OS	WUOC-Warm-up Oxidation Catalyst	Prechamber
nV-nVenturi Carburetor	WUTWC-Warm-up Three-Way Catalyst OS-Oxygen Sensor	TC-Turbocharger SC-Supercharger
VV-Variable Venturi	HOS-Heated Oxygen Sensor	IC-Intercooler or
Carburetor		Aftercooler
		CCV-Combustion
	•	Chamber Valve OBD-On-Board
		Diagnostics
		2 -
VEUTCLE MODELO .		
VEHICLE MODELS :		
Corolla All-Tr		
AE95L-CWN		
CWP CWM		
•		
Engine: Front <u>x</u> Mid	Rear	
Drive: FWD RWD	4WD Full time <u>x</u> 4WD Pa	rt time
·		

Page : 17.11-90 Issued : 10/21/87

		_	_		
17	١.	1	1	O	0

E.O. # P-14-7

	1300 A	OCSA AL	OKCES D	OWED SOLLFW	ENTAL DATA S		
Passenger	Cars <u>x</u> Light-D	uty Tru	cks	Medium-Duty	Vehicles	Pag Gas <u>x</u> Di	e <u>2</u> esel
Manufactur	er <u>Toyota M</u> o	tor Cor	poratio	n Engin	e family	JTY1.6V	5FFF4
Liter (CID)1.6	(96.8)		Eng.	Type <u>4 cyl</u>	. in-line	
Emission C	ontrol Sys. (Spe	cial Fe	atures)		EGR + OS +	TWC (EPFI)	
Engine code	Vehicle Models (If Coded see attachment) (Dyno Hp: Refer to 08.13.03.00)	Туре	Test	ECU,EI,ESAC Part No. [Computer]			Catalyst Part No.
1 thru 4	AE95L-CWMDKA -CWMXKA	м5	3,000	89661-12270	89661-12270 23250-16100		18450-16300
5 thru 8	AE95L-CWPDKA	A4	3,000	89661-12390	89661-12390 23250-16100		

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 : 17.11-91
Issued : 10/21/87