

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-138  
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:

<u>Engine Family</u>	<u>Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
KTY3.0V5FCC9	3.0 (180.2)	Exhaust Gas Recirculation Three-Way Catalyst Warm-Up 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:

<u>Hydrocarbons (Grams per Mile)</u>	<u>Carbon Monoxide (Grams per Mile)</u>	<u>Nitrogen Oxides (Grams per Mile)</u>
0.39	7.0	0.4

The following are the certification emission values for this engine family:

<u>Hydrocarbons (Grams per Mile)</u>	<u>Carbon Monoxide (Grams per Mile)</u>	<u>Nitrogen Oxides (Grams per Mile)</u>
0.13	1.0	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 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 10th day of August, 1988.

  
K. D. Drachand, Chief  
Mobile Source Division

Manufacturer Toyota Motor Corporation Engine Family KTY3.0V5PCC9  
 Evaporative Family EV-ME/EV-PE Engine Type 6-cyl. in-line  
 Liters (CID) 3.0 (180.2)

**ABBREVIATIONS**

Ignition System

CA-Centrifugal Advance  
 ECU-Electronic Control Unit  
 EI-Electronic Ignition  
 ESAC-Electronic Spark Advance Control  
 VA-Vacuum Advance  
 VR-Vacuum Retard

Fuel System

CPI, EPFI, MPFI, SFI,  
 DID, DIP, HOS, OS  
 nV-nVenturi Carburetor  
 VV-Variable Venturi Carburetor

Exhaust Emissions Control System

AIP-Air Injection - Pump  
 AIV-Air Injection - Valve  
 EGR-Exhaust Gas Recirculation  
 EIC-Electronic Injection Control (Diesel Only)  
 EM-Engine Modification  
 SPL-Smoke Puff Limiter or Throttle Delay  
 TOC-Trap Oxidizer, Continual  
 TOP-Trap Oxidizer, Periodical  
 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

Special Features

CPI-Central Fuel Injection or Throttle Body Injection  
 EPFI-Electronic Port Fuel Injection  
 MPFI-Mechanical Port Fuel injection  
 SFI-Sequential Fuel Injection  
 DID-Diesel Injection-Direct  
 DIP-Diesel Injection-Prechamber  
 TC-Turbocharger  
 SC-Supercharger  
 IC-Intercooler or Aftercooler  
 CCV-Combustion Chamber Valve  
 OBD-On-Board Diagnostics

VEHICLE MODELS :

<u>Supra</u>	<u>Cressida</u>
MA70L-BLMVFA	MX83L-AEPQFA
-BLPVFA	
-BJMVFA	
-BJPVFA	

Engine: Front   x   Mid.        Rear         
 Drive: FWD        RWD   x   4WD Full time        4WD Part time

17.11.00

E.O. # A-14-138

## 1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars  Light-Duty Trucks  Medium-Duty Vehicles  Gas  Diesel

Manufacturer Toyota Motor Corporation Engine Family KTY3.0V5FCC9

Liter (CID) 3.0 (180.2) Eng. Type 6 cyl. in-line

Emission Control Sys. (Special Features) EGR + TWC + WUTWC + OS + HOS (EPFI + OBD)

Engine code	Vehicle Models (If Coded see attachment) (Dyno Hp: Refer to 08.13.02.00)	Trans. Type	Equiv. Test Weight	Ign. System	Fuel System	EGR Valve Part No.	Catalyst Part No.
				EI, ESAC, ECU Part No. [Computer] [Knock sensor] *1	EPFI, OS Part No. [Computer] [Air flow meter] [Injector]		
1	MA70L-BLMVFA -BJMVFA	M5	3,875	89661-14300 89615-30020 (76) *2 89615-30030 (76) *2	89661-14300 22250-42030 23250-70080	25620-42030	Start catalyst : 18450-42160 (C03) *2 Main catalyst : 18450-42210 (C02) *2
2	MA70L-BLPVFA -BJPVFA	A4	3,875 4,000	89661-14310 89615-30020 (76) *2 89615-30030 (76) *2	89661-14310 22250-42030 23250-70080		
3	MX83L-AEPQFA	A4	3,750	89661-22170 89615-30020 (76) *2 89615-30030 (76) *2	89661-22170 22250-42080 23250-70080		

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 : 89615-30020 : MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

89615-30030 : NIPPONDENSO CO., LTD.

\*2 : Parenthetical information represents identifying marks found on production parts.