State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-68
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 1985 model-year Toyota Motor Corporation exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displacement Cubic Inches (Liters)	Exhaust Emission Control Systems (Special Features)
FTY1.6V2FCCX	88.6/96.8 (1.5/1.6)	Air Injection - Valve Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the certification emission standards for this engine family to be listed on the window decal required by "California Assembly-Line Test Procedures for 1983 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles":

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0.39	7.0	0.7

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

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0.23	2.2	0.4

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.15 of Title 13, California Administrative Code which includes repair or replacement of emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

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 1981 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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 30th day of July, 1984.

K. D. Drachand, Chief
Mobile Source Division

17.10.00 Supplemental data sheets

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Toyota Motor Corporation

Engine Family FTY1.6V2FCCX

Executive Order No. A-14-68

Evaporative Family EV-A

Engine CID (Liters) 88.6/96.8(1.5/1.6)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
EEC-Electronic Engine Control
EI-Electronic Ignition
ESAC-Electronic Spark Advance Control
VA-Vacuum Advance
VR-Vacuum Retard

Exhaust Emissions Control System

AIP-Air Injection-Pump
AIV-Air Injection-Valve
CL-Closed Loop
EGR-Exhaust Gas Recirculation
EM-Engine Modification
OC-Oxidation Catalyst System
TOC-Trap Oxidizer Continual
TOP-Trap Oxidizer Periodical
TR-Thermal Reactor
TWC-Three Way Catalyst System

Special Features

CCV-Combustion Chamber Valve
CFI-Central Fuel Injection
DID-Diesel Injection-Direct
DIP-Diesel Injection-Prechamber
EFI-Electronic Fuel Injection
IC-Intercooler
MFI-Mechanical Fuel Injection
TC-Turbocharged

Fuel System

CFI, CL, DID, DIP, EFI, MFI
nV-nVenturi Carburetor
VV-Variable Venturi

VEHICLE MODELS :

Corolla
AE82L-EEMDCA
-EEMNCA
-ELMDCA
-EEHDCA
-ELHDCA
-EEPECA
-EEPNCA
-ELPNCA

Corolla Sport
AE86L-ECMXCA
-ESMDCA
-ESMXCA
-ESPDCA
-ESPXCA
-ECPXCA

Tercel
AL21L-ZGKRCA
-ZGMDCA
-ZHMDCA
-ZHMRCA
-ZGHDCA
-ZGHRCA
-ZHHDCA
-ZHHRCA

2WD Tercel Wgn
AL21LG-ZWMDCA
-ZWHDCA

4WD Tercel Wgn
AL25LG-ZWFDCA
-ZWFQCA
-ZWHDCA

DRIVE SYSTEM : AL21L, AL21LG, AE82L series ; Front Engine/Front - Wheel Drive
AE86L series ; Front Engine/Rear - Wheel Drive
AL25LG series ; Front Engine/4 - Wheel Drive

E.O. #A-14-68

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Toyota Motor Corporation Page 2

Engine Family FTY1.6V2FCCX Engine Code 1 thru 29

CID (Liter)- 88.6/96.8(1.5/1.6)

ECS (Special Features) AIV + CL + EGR + TWC Type 4 cyl. in-line

Engine code	Vehicle Models (If Coded see attachment) Refer to 08.13.03.00	Trans.	Equiv. Test Weight	Ign. System EI, CA, VA Part No. [Distributor]	Fuel System 2V, CL Part No. [Carburetor]	EGR Valve Part No.	Label Ident. Part No.
1	AL21L-ZGKRCA	M4	2,250	19030-15060	21100-15340	25620-15210	11298-15190
2 thru 5	AL21L-ZGMDCA -ZHMDCA -ZHMRCA AL21LG-ZWMDCA AL25LG-ZWFDCA -ZWFQCA	M5	2,375 2,500 2,625				
6 thru 9	AL21L-ZGHRCA -ZGHDCA -ZHHRCA -ZHHDCA AL21LG-ZWHDCA	A3	2,375 2,500				
26 thru 29	AL25LG-ZWHDCA		2,625				
10 thru 13	AE82L-EEMDCA -EEMNCA -ELMDCA	M5	2,375 2,500	19030-16040	21100-16120	25620-15250	11298-16101
14 thru 17	AE82L-EEHDCA -ELHDCA	A3	2,500			25620-15030	
	AE82L-EEPECA -EEPNCA -ELPNCA	A4	2,500 2,625				
18 thru 21	AE86L-ESMDCA -ESMXCA -ECMXCA	M5	2,500 2,625	19030-16050	21100-16160	25620-15210	11298-16022
22 thru 25	AE86L-ESPDCA -ESPXCA -ECPXCA	A4	2,500 2,625				

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.

*Add 10% to dyno test HP for air conditioning usage.

E.O. #A-14-68

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Toyota Motor Corporation Page 2

Engine Family FTY1.6V2FCCX Engine Code 1 thru 30 & 1R1 thru 30R1

CID (Liter)- 88.6/96.8(1.5/1.6)

ECS (Special Features) AIV + CL + EGR + TWC Type 4 cyl. in-line

Engine code	Vehicle Models (If Coded see attachment) Refer to 08.13.03.00	Trans.	Equiv. Test Weight	Ign. System EI, CA, VA Part No. [Distributor]	Fuel System 2V, CL Part No. [Carburetor]	EGR Valve Part No.	Label Ident. Part No.
1, 30, 1R1 & 30R1	AL21L-ZGKRCA	M4	2,250 2,375	19030-15060	21100-15340	25620-15210	11298-15190
2 thru 5 & 2R1 thru 5R1	AL21L-ZGMDCA -ZHMDCA -ZHMRCA AL21LG-ZWMDCA AL25LG-ZWFDCA -ZWFQCA	M5	2,375 2,500 2,625				
6 thru 9 & 6R1 thru 9R1	AL21L-ZGHRCA -ZGHDCA -ZHHRCA -ZHHDCA AL21LG-ZWHDCA	A3	2,375 2,500				
26 thru 29 & 26R1 thru 29R1	AL25LG-ZWHDCA		2,625				
10 thru 13 & 10R1 thru 13R1	AE82L-EEMDCA -EEMNCA -ELMDCA	M5	2,375 2,500	19030-16040	21100-16120	25620-15250	11298-16101
14 thru 17 & 14R1 thru 17R1	AE82L-EEHDCA -ELHDCA	A3	2,500			25620-15030	
	AE82L-EEPECA -EEPNCA -ELPNCA	A4	2,500 2,625				

Engine code	Vehicle Models (If Coded see attachment) Refer to 08.13.03.00	Trans.	Equiv. Test Weight	Ign. System EI, CA, VA Part No. [Distributor]	Fuel System 2V, CL Part No. [Carburetor]	EGR Valve Part No.	Label Ident. Part No.
18 thru 21 & 18R1 thru 21R1	AE86L-ESMDCA -ESMXCA -ECMXCA	M5	2,500 2,625	19030-16050	21100-16160	25620-15210	11298-16022
22 thru 25 & 22R1 thru 25R1	AE86L-ESPDCA -ESPXCA -ECPXCA	A4	2,500 2,625				

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.

*Add 10% to dyno test HP for air conditioning usage.