State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-77
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 light-duty trucks:

Engine Family	Displacement Cubic Inches (Liters)		Exhaust Emission Control Systems (Special Features)
FTY2.4T5FBB5	144.4	(2.4)	Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop (Electronic Fuel Injection)

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":

Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0-3999	0.39	9.0	1.0

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

Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0-3999	0.17	2.4	0.2

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

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Toyota Motor Corporation
Engine Family FTY2.4T5FBB5

Executive Order No. A-14-77
Evaporative Family EV-E
Engine CID (Liters) 144.4 (2.4)

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 :

Short P.U. Truck
Long " "
Xtracab Long P.U. Truck
Cab/Chassis
P.U. Truck
Long "
4-Runner wgn.

RN50L-MSEA
RN55L-MSEA
-MSCEA
-MRHEA
-PSCEA

RN55L-KREA3W
-KDEA3W
-PDEA3W

RN60L-MSEA
RN65L-MSEA
-MSCEA

RN60LG-MDEA
-MSEA
RN60LV-MDEA

Xtracab Long P.U. Truck

DRIVE SYSTEM : RN50L, RN55L series; Front Engine/Rear - Wheel Drive
RN60L, RN65L, RN60LG, RN60LV series; Front Engine/4 - Wheel Drive

E.O. #A-14-77

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Toyota Motor Corporation Page 2

Engine Family FTY2.4T5FBB5 Engine Code 1 thru 20

CID (Liter)- 144.4(2.4)

ECS (Special Features) CL + EGR + TWC (EFI) 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 EEC,EI,ESAC Part No. [Computer] [Knock sensor*1]	Fuel System CL, EFI Part No. [Computer] [Air flow meter] [Injector]	EGR Valve Part No.	Label Ident. Part No.
1 thru 4	RN50L-MSEA RN55L-MSEA -MSCEA -MRHEA	M5	2,875 3,000 3,125	89661-35010 89615-35010 -35020	89661-35010 22250-35020 23250-45011	25620-35100	11298-35670
5, 6	RN55L-KREA3W -KDEA3W	M4	3,750			25620-35130	11298-35700
7 thru 10	RN55L-PSCEA	A4	3,000			25620-35100	11298-35670
11, 12	RN55L-PDEA3W		3,750			25620-35130	11298-35700
13 thru 16	RN60L-MSEA RN65L-MSEA -MSCEA	M5	3,375 3,500	89661-35020 89615-35010 -35020	89661-35020 22250-35020 23250-45011	25620-35100	11298-35670
17 thru 20	RN60LG-MDEA -MSEA RN60LV-MDEA		3,625 3,750			25620-35130	
21 thru 24	RN65L-PDCEA -PDEA RN60LG-PDEA RN60LV-PDEA	A4	3,500 3,625 3,750				

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.