

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-88
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 1986 model-year Toyota Motor Corporation exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
GTY2.4T5FBT7	144.4 (2.4)	Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop (Electronic Fuel Injection) (Turbocharged) ACE

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>Equivalent Inertia Weight</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per mile</u>
0-3999	0.39	9.0	1.0
4000-5999	0.50	9.0	1.0

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

<u>Equivalent Inertia Weight</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0-3999	0.17	2.4	0.4
4000-5999	0.23	4.2	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 1960.1.5 of Title 13, California Administrative Code which includes recall liability for 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 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 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 26th day of August, 1985.


K. D. Drachand, Chief
Mobile Source Division

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Toyota Motor Corporation
 Engine Family GTY2.4TSPBT7

Executive Order No. A-14-88
 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
 W-Variable Venturi

VEHICLE MODELS :

<u>Truck 2WD</u>	<u>Truck 4WD</u>	<u>4-Runner 4WD</u>
RN55L-MGCZA -PGCZA	RN61L-MBZA RN66L-PGCZA	RN61LG-PGZA

DRIVE SYSTEM : RN55L series; Front Engine/Rear - Wheel Drive
 RN61L, RN66L, RN61LG series : Front Engine/4-Wheel Drive

1986 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 G1Y2.4T5FBT7 Engine 1 thru 16
 Code 13R1 thru 16R1
 CID (Liter) - 144.4(2.4)
 ECS (Special Features) CL + EGR (TC) + 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 *1 sensor]	Fuel System CL, EFI Part No. [Computer] [Air flow meter] [Injector]	EGR Valve Part No.	Label Ident. Part No.
1, 2	RN55L-MGCZA	M5	3,125	89661-35080 89615-35010	89661-35080 22250-35040	25620-35160	11298-35790
3, 4	RN55L-PGCZA	A4	3,125	-35020	23250-35020	25620-35150	
5 thru 8	RN61L-MBZA	M5	3,625	89661-35050 89615-35010	89661-35050 22250-35040	25620-35160	
9 thru 12	RN66L-PGCZA	A4	3,750	-35020	23250-35020	25620-35150	
13 thru 16	RN61LG-PGZA		4,000			25620-35170	
13R1 thru 16R1						25620-35171	

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.

Note *1 Maker : 89615-35010 : MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.
 89615-35020 : NIPPONDENSO CO., LTD.