State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-45
Relating to Certification of New Motor Vehicles

Toyota Motor Company, LTD

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 Order G-45-3, and G-45-4;

IT IS ORDERED AND RESOLVED: That 1982 model-year Toyota Motor Company, Ltd. 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)
CTY2.4T2EBB9	144.4(2.4)	Air Injection Pump Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop

Vehicle Models, Transmissions, Engine Codes and Evaporative Emission Control Families as listed on attachments.

The following are the emission standards for this engine family to be listed on the window decal required by California Assembly-Line Test Procedures for 1982 model-year vehicles:

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0.39	9.0	1.0

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

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0.24	3.6	0.5

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 in El Monte, California this 31st day of July ~~1981~~.

K. D. Drachand, Chief
Mobile Source Control Division

1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Toyota Motor Co. Executive Order No. A-14-45 Page 1

Engine Family CTY2.4TZEBB9 Evaporative Family EV-R1, EV-R2

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

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

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
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

MFI-Mechanical Fuel Injection
TC-Turbocharged

Model	Engine Code
Two Wheel Drive Trucks	
Standard-bed	1,2,3,4
Long-bed	1,2,3,4
3/4 Ton Truck	1,2
Cab/Chassis	7,8
Four Wheel Drive Trucks	
4 WD Standard-bed	5,6
4 WD Long-bed	5,6

DRIVE SYSTEM:

012281

1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Toyota Motor Company, Ltd E.O. #A -14-45

Engine Family CTY2.4T2EBB9 CID (liter) - Type 144.4 (2.4 I-4

ECS (Special Features) AIP,EGR,TWC-CL

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv. Test Weight	Ign. System EI,CA,VA Part No.	Fuel System 2V Part No.	EGR Valve Part No.	Label Ident. Part No.
2,1**	2WD Standard Bed	M4,M5	2875	Nippondenso 19100-35030	Aisan Kogyo 21100-35070	25620-35010	See page 3
4,3		A4				-35050	
2	2WD Long Bed 2WD 3/4 Ton	M4,M5				-35010	
4		A4				-35050	
1**		M4,M5	3000			-35010	
		A4				-35050	
8,7**	Cab Chassis	M4	3500				See page 4
6	4WD Standard Bed	M4,M5	3250			-35020	
6,5**	4WD Long Bell 4WD Standard Bed		3375				See page 5

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.
**Equipped with idle up system for air conditioned cars.

Date of Issue - 073081
Revisions:

1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Toyota Motor Company, Ltd E.O. #A -14-45

Engine Family CTY2.4T2EBB9 CID (liter) - Type 144.4 (2.4 I-4

ECS (Special Features) AIP,EGR,TWC-CL

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv. Test Weight	Ign. System EI,CA,VA Part No.	Fuel System 2V Part No.	EGR Valve Part No.	Label Ident. Part No.
1R, 2R	2WD Standard Bed	M4,M5	2875	Nippondenso 19100-35030	Aisan Kogyo 21100-35071	25620-35010	See page 3
3R, 4R		A4				-35050	
2R	2WD Long Bed 2WD 3/4 Ton	M4,M5				-35010	
4R		A4				-35050	
1R		M4,M5	3000			-35010	
3R		A4				-35050	
7R, 8R	Cab Chassis	M4	3500				See page 4
6R	4WD Standard Bed	M4,M5	3250			-35020	
5R, 6R	4WD Long Bell 4WD Standard Bed		3375				See page 5

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.

Date of Issue - 010682, R/C 82-R-15

Revisions:

Engine family : CTY2.4T2EBB9

VEHICLE EMISSION CONTROL INFORMATION

ENGINE FAMILY : CTY2.4T2EBB9 144.4 CID
EVAP. FAMILY : EV-R1
EXHAUST EMISSION CONTROL SYSTEM AI/EGR/O_2S/TWC

MAKE ALL ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE, CHOKE FULL OPEN, AIR CLEANER INSTALLED, AIR CONDITIONER OFF AND TRANSMISSION IN NEUTRAL.

ENGINE TUNE-UP SPECIFICATIONS FOR ALL ALTITUDES

IDLE SPEED (RPM)	MANUAL 700 AUTO. 750
IGNITION TIMING (°BTDC)	8° @ 950 RPM MAX. WITH ALL VACUUM HOSES DISCONNECTED FROM DISTRIBUTOR AND SEALED.
IDLE MIXTURE SETTING	IDLE MIXTURE SCREW IS PRESET AND SEALED AT FACTORY. ADJUSTMENT DURING TUNE-UP IS NOT RECOMMENDED.
FAST IDLE SPEED (RPM)	2,600 WITH ALL VACUUM HOSES DISCONNECTED FROM EGR VALVE AND DISTRIBUTOR AND SEALED.
VALVE CLEARANCE (IN.)	INTAKE 0.008 (0.20 mm) EXHAUST 0.012 (0.30 mm)

TOYOTA MOTOR CO., LTD.	CATALYST

THIS VEHICLE CONFORMS TO U.S. EPA AND STATE OF CALIFORNIA REGULATIONS APPLICABLE TO 1982 MODEL YEAR NEW MOTOR VEHICLES PROVIDED THAT THIS VEHICLE IS INTRODUCED INTO COMMERCE FOR SALE IN THE STATE OF CALIFORNIA ONLY.

22R CAL RN 2WD

Engine family : CTY2.4T2EBB9

VEHICLE EMISSION CONTROL INFORMATION

ENGINE FAMILY : CTY2.4T2EBB9 144.4 CID
EVAP. FAMILY : EV-R2
EXHAUST EMISSION CONTROL SYSTEM AI/EGR/O_2S/TWC

MAKE ALL ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE, CHOKE FULL OPEN, AIR CLEANER INSTALLED, AIR CONDITIONER OFF AND TRANSMISSION IN NEUTRAL.

ENGINE TUNE-UP SPECIFICATIONS FOR ALL ALTITUDES

IDLE SPEED (RPM)	700
IGNITION TIMING (°BTDC)	8° @ 950 RPM MAX. WITH ALL VACUUM HOSES DISCONNECTED FROM DISTRIBUTOR AND SEALED.
IDLE MIXTURE SETTING	IDLE MIXTURE SCREW IS PRESET AND SEALED AT FACTORY. ADJUSTMENT DURING TUNE-UP IS NOT RECOMMENDED.
FAST IDLE SPEED (RPM)	2,600 WITH ALL VACUUM HOSES DISCONNECTED FROM EGR VALVE AND DISTRIBUTOR AND SEALED.
VALVE CLEARANCE (IN.)	INTAKE 0.008 (0.20 mm) EXHAUST 0.012 (0.30 mm)

TOYOTA RECOMMENDS TUNE-UP READJUSTMENT IF YOU CHANGE THE ALTITUDE WHERE YOUR VEHICLE IS PRINCIPALLY USED.

TOYOTA MOTOR CO., LTD.	CATALYST

THIS VEHICLE CONFORMS TO U.S. EPA AND STATE OF CALIFORNIA REGULATIONS APPLICABLE TO 1982 MODEL YEAR NEW MOTOR VEHICLES WHEN COMPLETED AT A MAXIMUM CURB WEIGHT OF 3,260 POUNDS AND A MAXIMUM FRONTAL AREA OF 37.5 SQUARE FEET.

22R CAL RN C & C

Engine family : CTY2.4T2EBB9

VEHICLE EMISSION CONTROL INFORMATION

ENGINE FAMILY : CTY2.4T2EBB9 144.4 CID
EVAP. FAMILY : EV-R2
EXHAUST EMISSION CONTROL SYSTEM AI/EGR/O_2S/TWC

MAKE ALL ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE, CHOKE FULL OPEN, AIR CLEANER INSTALLED, AIR CONDITIONER OFF AND TRANSMISSION IN NEUTRAL.

ENGINE TUNE-UP SPECIFICATIONS FOR ALL ALTITUDES

IDLE SPEED (RPM)	700
IGNITION TIMING (°BTDC)	8° @ 950 RPM MAX. WITH ALL VACUUM HOSES DISCONNECTED FROM DISTRIBUTOR AND SEALED.
IDLE MIXTURE SETTING	IDLE MIXTURE SCREW IS PRESET AND SEALED AT FACTORY. ADJUSTMENT DURING TUNE-UP IS NOT RECOMMENDED.
FAST IDLE SPEED (RPM)	2,600 WITH ALL VACUUM HOSES DISCONNECTED FROM EGR VALVE AND DISTRIBUTOR AND SEALED.
VALVE CLEARANCE (IN.)	INTAKE 0.008 (0.20 mm) EXHAUST 0.012 (0.30 mm)

TOYOTA MOTOR CO., LTD.	CATALYST

THIS VEHICLE CONFORMS TO U.S. EPA AND STATE OF CALIFORNIA REGULATIONS APPLICABLE TO 1982 MODEL YEAR NEW MOTOR VEHICLES PROVIDED THAT THIS VEHICLE IS INTRODUCED INTO COMMERCE FOR SALE IN THE STATE OF CALIFORNIA ONLY.

22R · CAL RN 4WD