 E.C. Bork

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-40
Relating to Certification of New Motor Vehicles

TOYOTA MOTOR COMPANY, LTD.

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Sections 43100, 43102, 43103, and 43835; 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 Toyota Motor Company, Ltd. exhaust emission control systems are certified as described below for 1981 model-year gasoline-powered light-duty trucks.

Engine Family	Displacement Cubic Inches (Liters)	Exhaust Emission Control Systems (Special Features)
BTY4.2T2AB1	258 (4.2)	Air Injection Pump Exhaust Gas Recirculation Oxidation Catalyst

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

The following are the certification emission values to be listed on the window decal required by California Assembly-Line Test Procedures for 1981 model-year vehicles:

Engine Family	Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
BTY4.2T2AB1	4000-5999	0.19	3.4	1.1

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

BE IT FURTHER RESOLVED: That Toyota Motor Company, Ltd. has provided to the Executive Officer 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 15th day of September, 1980.

K. D. Drachand, Chief
Mobile Source Control Division

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Manufacturer Toyota Motor Co., Ltd. Executive Order No. A-14-40 Page 1

Engine Family BTY4.2T2AB1 Evaporative Family EV-F

ABBREVIATIONS Engine CID (Liters) 258 (4.2)

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
TR-Thermal Reactor
TWC-Three Way Catalyst System

Special Features
CCV-Combustion Chamber Valve
CFI-Central Fuel Injection
DI-Diesel Injection
EFI-Electronic Fuel Injection
MFI-Mechanical Fuel Injection
TC-Turbocharged

Fuel System
CFI, DI, EFI, MFI
nV-nVenturi Carburetor
VV-Variable Venturi

Engine Code	Model
1, 2	Land Cruiser Hardtop 4WD Land Cruiser Station Wagon 4WD

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

Manufacturer Toyota Motor Company, Ltd. Page 2

Engine Family BTY4.2T2AB1 Engine Code 1, 2

ECS (Special Features) AIP+EGR OC CID (Liter)-Type 258 (4.2) I 6

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv. Test Weight	Ign. System VA, CA, EI Part No.	Fuel System 2V Part No.	EGR Valve Part No.	Label Ident. Part No.
1, 2	Land Cruiser Hardtop 4WD	4M	4000	Nippondenso 19100-61102	Aisan Kogyo 23100-6150	25620-61071	See Page 3
1, 2	Land Cruiser Station Wagon 4WD		4500				

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 -

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Engine Family BTY4.2T2AB1

VEHICLE EMISSION CONTROL INFORMATION

ENGINE FAMILY : BTY4.2T2AB1 257.9 CID
EVAP. FAMILY : EV-F
EXHAUST EMISSION CONTROL SYSTEM AI/EGR/OC

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

IDLE SPEED (RPM)	650
IGNITION TIMING (°BTDC)	7° @ 950 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)	1,800 WITH THE VACUUM HOSES ⓐ, ⓑ and ⓒ (REF. VACUUM HOSE INFOR.) DISCONNECTED AND THE PIPE ENDS SEALED.
VALVE CLEARANCE (IN.)	INTAKE 0.008 (0.20 mm) EXHAUST 0.014 (0.35 mm)

TOYOTA MOTOR CO., LTD. | CATALYST

THIS VEHICLE CONFORMS TO U.S. EPA AND STATE OF CALIFORNIA REGULATIONS APPLICABLE TO 1981 MODEL YEAR NEW MOTOR VEHICLES AND HAS DEMONSTRATED COMPLICANCE AT ALTITUDES BELOW 4,000 FEET.