

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-48
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 passenger cars.

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
CTY2.8V5HBG3	168.4 (2.8)	Exhaust Gas Recirculation Three-Way Catalyst System with Closed Loop (Electronic Fuel Injection)

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:

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.39	7.0	0.7

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

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.16	2.2	0.6

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 4th day of September, 1981.



K. D. Drachand, Chief
Mobile Source Control Division

1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Toyota Motor Co., Ltd. Executive Order No. A-14-48 Page 1
 Engine Family CTY2.8V5HBG3 Evaporative Family EV-ME
 Engine CID (Liters) 168.4 (2.8)

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
 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

Fuel System

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

<u>Model</u>	<u>Codes</u>
Celica Supra Hatchback	1, 2, 3, 4

DRIVE SYSTEM: Front engine/Rear drive.

1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Toyota Motor Company, Ltd. E.O. #A -14-48

Engine Family CTY2.8V5HBG3 CID (liter) - Type 168.4 (2.8) I-6

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

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv. Test Weight	Ign. System EI, CA, VA Part No.	Fuel System EFI Part No.	EGR Valve Part No.	Label Ident. Part No.
1R, 2R ⁽¹⁾	*Celica Supra Hatchback	A4	3375	Nippondenso 19100-43090	Air Flow Meter 22250-43110	25620-43050	See page 3
		M5	3250		Injector 23250-45011 Computer 89561-14130		
3R, 4R ⁽¹⁾					Computer 89561-14120		

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 - (1) R/C 82-R-10

Revisions:

1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Toyota Motor Company, Ltd. E.O. #A-14-48

Engine Family CTY2.8V5HBG3 CID (liter) - Type 168.4 (2.8) I-6

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

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equip. Test Weight	Ign. System EI, CA,VA Part No.	Fuel System EFI Part No.	EGR Valve Part No.	Label Ident. Part No.
1, 2	*Celica Supra Hatchback	A4	3375	Nippondenso 19100-43090	Air Flow Meter 22250-43110	25620-43050	See page 3
		M5	3250		Injector 23250-45011		
3,4					Computer 89561-14100		
					Computer 89561-14090		

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 - 090481, With R/C # 82-R-5.

Revisions:

A-14-48

Engine family : CTY2.8V5HBG3

CALIFORNIA 5M-GE	VEHICLE EMISSION CONTROL INFORMATION	
	ENGINE FAMILY : CTY2.8V5HBG3 168.4 CID EVAP. FAMILY : EV-ME EXHAUST EMISSION CONTROL SYSTEM EFI/O ₂ S/EGR/TWC	
	MAKE ALL ADJUSTMENTS WITH ENGINE AT NORMAL OPERATING TEMPERATURE, AIR CONDITIONER OFF AND TRANSMISSION IN NEUTRAL.	
	ENGINE TUNE-UP SPECIFICATIONS FOR ALL ALTITUDES	
	IDLE SPEED (RPM)	800
	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)	N/A
	VALVE CLEARANCE (IN.)	N/A
	MODIFICATIONS ARE NECESSARY TO ENSURE EMISSION CONTROL COMPLIANCE AT DESIGNATED HIGH ALTITUDE AREAS. SEE YOUR OWNER'S MANUAL FOR MODIFICATION PROCEDURES.	
 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.		