

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-16-60  
Relating to Certification of New Motor Vehicles

TOYO KOGYO CO., 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 Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1984 model-year Toyo Kogyo Co., 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>
ETK1.5V2HCG3	90.9 (1.5)	Air Injection - Valve Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop

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":

<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 the above engine family:

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.12	1.4	0.6

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 14<sup>th</sup> day of July, 1983.

  
K. D. Drachand, Chief  
Mobile Source Control Division

08.13.00.00 Vehicle Road Load

Engine Family	Vehicle Model	Body Type	Test Weight (lb)	Tires	A/C	Other	Frontal Area (HP)	Coastdown Time (Sec.)	Dyno (HP)
ETK1.5V2HFF8	GLC & LASER	Hatchback 3 door	2250	155-13/ 6.15-13 *1	X	Gasoline	----	12.1	7.8 *2 (8.8)
				155SR13	X			12.7 *3 (11.6) *2	
		Hatchback 5 door	2375 *3	175/70SR13	X *3	12.1			
ETK1.5V2HCG3		Sedan	2250	155SR13	X			12.1	
				175/70SR13	X			12.7	

\*1: Bias Tire (only for M-4 Vehicle)

\*2: only for Bias Tire

\*3: only for ETK1.5V2HFF8

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## 1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Toyo Kogyo Co., Ltd. Executive Order No. A-16-60 Page 1  
 Engine Family ETK1.5V2HCG3 Evaporative Family F  
 Engine CID (Liters) 90.9 (1.5)

## 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

Vehicle Models

Mazda GLC Hatchback

Mazda GLC Sedan

DRIVE SYSTEM: Front engine (E-W)/Front Drive

## 1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Toyo Kogyo Co., Ltd. E.O. # A-16-60

Engine Family ETK1.5V2HCG3 CID (liter) - Type 90.9 (1.5) - I4

ECS (Special Features) AIV, CL, EGR & TWC

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Ign. System CA, VA, EEC Part No.	Fuel System 2V Part No.	EGR Valve Part No.	Label Ident. Part No.
CE5-M (W/O AC)	MAZDA GLC Hatchback 3 Door	M-4 M-5	D4R82-04	DFP306-301	K5T59074	BE39A
CE5-MC (W/AC)	MAZDA GLC Sedan	M-5				BE39B
CE5-A (W/O AC) CE5-AC (W/AC)	MAZDA GLC Hatchback 3 Door & Sedan	A-3				

Comments :

Date of Issue -  
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