

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-16-15-1  
Relating to Certification of New Motor Vehicles

TOYO KOGYO CO., LTD.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102, and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That Toyo Kogyo Co., Ltd. exhaust emission control systems for 1977 model-year passenger cars are certified for the engine family described below:

Engine Family: CTCP  
Engine: 77.6 CID  
Transmission: 4 and 5-Speed Manual, 3-Speed Automatic  
Exhaust Emission Control Systems: Air Injection, Exhaust Gas  
Recirculation, Oxidation Catalyst

Model: Mazda GLC Sedan

BE IT FURTHER RESOLVED: That this certification is contingent upon Toyo Kogyo Co., Ltd. affixing a permanent catalyst overheat warning label on the driver's sun-visor of all catalyst-equipped vehicles. This label must be approved by the Executive Officer.

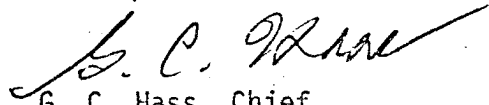
BE IT FURTHER RESOLVED: That this certification is also contingent upon Toyo Kogyo Co., Ltd. listing in the owner's manual the operating cautions associated with a catalyst-equipped vehicle. This listing must be approved by the Executive Officer.

These vehicles are in addition to those previously certified for this engine family.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Department of Motor Vehicles, the California Highway Patrol, and the Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California, this 17 day of January, 1977.

  
G. C. Hass, Chief  
Vehicle Emissions Control Division

Manufacturer Toyo Kogyo Executive Order No. A-16-15-1 Page 1  
 Engine Family CTCP Engine (CID) 77.6 Engine Code CTCP-M  
 Emission Control System AI+EGR+CAT +10%(A/C) Yes  No

Vehicle Models (If Coded see attachment)	Trans	Inertia Weight	Distributor Type C,V Mfgr. Part Number	Fuel System Type 1-2V Mfgr. Part Number	EGR System Part No. Service*	Tune-Up Specification (1) Basic Timing (2) Idle Mixture (3) Idle Speed
Mazda 808 (1300) Sedan Coupe St. Wagon	M4	2250 2250 2500	Mitsubishi T3T05074  or <u>T3T07074</u>	Hitachi DCG306-36	3713	See label # 3922 (attached)  1) $11 \pm 1^{\circ}$ BTDC at Idle Speed, with dis- tributor vac. line connected 2) $2.0 \pm 0.5\%$ (Without Air Injection) 3) $700 \pm 50$ In Neutral
Mazda GLC Sedan	M4 M5 A3	2250		Hitachi DCG306-36 for manual Trans.  DCG306-38 for Automatic Trans.		See label #3922 (attached)  1) $11 \pm 1^{\circ}$ BTDC at Idle speed, with distributor vacuum line connected. 2) $2.0 \pm 0.5\%$ (without Air injection) 3) $700 \pm 50$ RPM in neutral for manual transmission. $600 \pm 50$ RPM in "D" range for automatic transmission.
Comments Revised. See RC # RCCTCP-1, 8-5-76. See EO A-16-15.						
Date of Issue <u>Running Change #RCCTCP-3, February 22, 1977</u>						

Abbreviations

- Distributor  
 C-Centrifugal Advance  
 V-Vacuum Advance  
 VR-Vacuum Retard  
 HEI-High Energy Ignition  
 EI-Electronic Ignition  
Fuel System  
 EFI, FI  
 nV-nVenturi Carburetor  
 VV-Variable Venturi

Exhaust Emission Control System

- AI-Air Injection  
 CAI-Catalyst Air Injection  
 EFI-Electronic Fuel Injection  
 EGR-Exhaust Gas Recirculation  
 EM-Engine Modification  
 EFE-Early Fuel Evaporation  
 ESAC-Electronic Spark Advance  
 Control  
 FI-Fuel Injection

- OC-Oxidation Catalyst  
 PAI-Pulse Air Injection  
 RC-Reduction Catalyst  
 TR-Thermal Reactor  
 TWC-Three Way Catalyst  
 λ-Air Fuel Ratio Sensor  
 \*Service  
 I-Inspect, repair/replace  
 as needed  
 R-Replace

VEHICLE EMISSION CONTROL INFORMATION

(3922)

MODEL: MAZDA 808 (1300) & MAZDA GLC  
ENGINE DISPLACEMENT: 77.6 CU.IN.  
ENGINE FAMILY: CTCP  
EXHAUST EMISSION CONTROL TYPE: AI, CAT, EGR  
ENGINE TUNE UP SPECIFICATIONS AND ADJUSTMENTS:

- A. IDLE SPEED: 700  $\pm$  50 RPM (NEUTRAL) FOR MANUAL TRANSMISSION  
600  $\pm$  50 RPM (D RANGE) FOR AUTOMATIC TRANSMISSION
  - B. IGNITION TIMING: 11  $\pm$  1 BTDC AT ABOVE IDLE SPEED (WITH DIST. VACUUM LINE CONNECTED)
  - C. IDLE SPEED SETTING PROCEDURE:  
AFTER THE ENGINE IS ENOUGH WARMED UP, ADJUST THE IDLE SPEED TO SPECIFIED VALUE BY THE THROTTLE ADJUST SCREW.
  - D. IDLE AIR-FUEL MIXTURE SETTING PROCEDURE AND VALUE:  
IDLE MIXTURE: CO CONCENTRATION 2.0  $\pm$  0.5 %  
(WITHOUT AIR INJECTION)
    1. AFTER ADJUSTING THE IDLE SPEED ACCORDING TO THE ABOVE PROCEDURE, DISCONNECT AIR HOSE BETWEEN AIR PUMP AND CHECK VALVE, AND PLUG THE PORT OF CHECK VALVE.
    2. ADJUST CO CONCENTRATION TO 2.0  $\pm$  0.5 % BY USING MIXTURE ADJUST SCREW.
    3. RECONNECT THE AIR HOSE.
    4. IF THE IDLE SPEED SHIFTS FROM THE SPECIFIED RPM AS THE RESULT OF THE ABOVE, REPEAT THE PROCEDURE 1 TO 3.
- NOTE (C & D): ALL ACCESSORIES SHOULD BE OFF.
- E. FAST IDLE SPEED: 3000 ~ 4000 RPM (UNDER WARM ENGINE CONDITION)
  - F. VALVE LASH (UNDER WARM ENGINE CONDITION)
    - VALVE SIDE INTAKE: 0.010 IN., EXHAUST: 0.012 IN.
    - CAM SIDE INTAKE: 0.007 IN., EXHAUST: 0.009 IN.
  - G. THROTTLE OPENER SYSTEM
    - SERVO DIAPHRAGM: THROTTLE VALVE OPENING 1400  $\pm$  100 RPM AT IDLE  
(WITHOUT VACUUM ADVANCE)
    - VACUUM CONTROL VALVE: OPERATING DEPRESSION 22.4  $\pm$  0.4 IN.HG.

8.3'

FOR DETAILED MAINTENANCE INFORMATION, PLEASE REFER TO THE OWNER'S MANUAL AND SERVICE BOOK.  
THE STATEMENT:

THIS VEHICLE CONFORMS TO U.S. EPA REGULATIONS APPLICABLE TO 1977 MODEL YEAR NEW MOTOR VEHICLES.  
THIS VEHICLE ALSO CONFORMS TO CALIFORNIA REGULATIONS APPLICABLE TO 1977 MODEL YEAR NEW MOTOR VEHICLES.

THIS VEHICLE IS CERTIFIED AS HAVING DEMONSTRATED CONFORMANCE WITH FEDERAL AND CALIFORNIA EMISSION STANDARDS ONLY AT ELEVATIONS EQUAL TO OR LOWER THAN 1219 METERS. (4000 FEET)

CATALYST IDENTIFICATION : CATALYST  
MAZDA Toyo Kogyo Co., Ltd.

3.9'

LABEL - EMISSION

BASE COLOR - WHITE  
LETTERING FRAME } - BLACK  
& UNDERLINE

Issue Date: Jul. 14 1976

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