State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-16-19
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 light-duty trucks are certified for the engine family described below:

Engine Family: CVBT
Engine: 109.6 CID
Transmission: 4 and 5-speed Manual
Exhaust Emission Control Systems: Air Injection, Exhaust Gas Recirculation, Oxidation Catalyst

Models: Courier
Mazda B1800

The following are the recommended values to be listed on the window decal required by California Assembly-Line Test Procedures for 1977 model-year vehicles:

Engine Family	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
CVBT	.8	12	1.2

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.

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 11 day of February, 1977.

G. C. Hass, Chief
Vehicle Emissions Control Division

1977 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET CVBT

☐ Passenger Cars ☒ Light-Duty Trucks

Manufacturer TOYO KOGYO Executive Order No. A-16-19 Page 1

Engine Family CVBT Engine (CID) 109.6 Engine Code CVBT-M

Emission Control System AI + EGR + OC +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
Courier Mazda B1800	M-4 M-5	3000	Hitsubishi Electric Corporation T3T07182	Hitachi DCJ328-9	3882	1) 8° ± BTDC @ above idle RPM, with distributor vacuum line connected. 2) 2.0 ± 0.5% (without air injection - disconnect air hose between air pump and check valve, and plug the port of the check valve)*. 3) 700 $\pm^{50}_{0}$ in neutral* *All accessories off.

Comments

Date of Issue

Abbreviations

Distributor
C-Centrifugal Advance
V-Vacuum Advance
R-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

U.S. ENVIRONMENTAL PROTECTION AGENCY

CERTIFICATE of CONFORMITY

WITH THE CLEAN AIR ACT OF 1970 ISSUED TO:

Toyo Kogyo Company, Limited
3-1 Shinchi, Fucho-cho, Aki-gun
Hiroshima, Japan

Pursuant to section 206 of the Clean Air Act (42 U.S.C.1857f-5) and 40 CFR Part 86, this Certificate of Conformity is hereby issued with respect to test vehicles which have been found to conform to the requirements of the regulations on Control of Air Pollution from New Motor Vehicles and New Motor Vehicle Engines (40 CFR Part 86) and which represent the following models of new motor vehicles, by engine family, more fully described in the application of the above named manufacturer:

The following vehicles are certified as having demonstrated conformance with Federal emission standards only at elevations equal to or lower than 1,219 meters (4,000 feet):

Courier, Mazda B1800

This Certificate covers engine family CVBT, including 109.6-CID engines with catalytic converter, air injection, exhaust gas recirculation, charcoal canister, and closed crankcase emission control systems, meeting emission standards specified in 40 CFR 86.077-9(a), 86.077-9(b), and 86.077-9(c). These vehicles are equipped with an emission control device which the Administrator has determined will be significantly impaired by the use of leaded gasoline. This Certificate is issued subject to the conditions specified in 40 CFR 80.24.

This Certificate covers only those new motor vehicles which conform, in all material respects, to the design specifications that applied to those vehicles described in the Application for Certification and which are produced during the 1977 model year production period of the said manufacturer, as defined in 40 CFR 86.077-2(b).

It is a term of this Certificate that the manufacturer shall consent to all inspections described in 40 CFR 86.077-7(c) which concern either the vehicle certified, or any production vehicle covered by this Certificate, or any production vehicle which when completed will be claimed to be covered by this Certificate. Failure to comply with all the requirements of §86.077-7(c) with respect to any such vehicle may lead to revocation or suspension of this Certificate as specified in 40 CFR 86.077-30(c). It is also a term of this Certificate that this Certificate may be revoked or suspended for the other reasons stated in §86.077-30(c) or (d).

Catalyst-equipped vehicles, otherwise covered by this Certificate, which are driven outside the United States, Canada, and Mexico will be presumed to have been operated on leaded gasoline resulting in deactivation of the catalysts. If these vehicles are imported or offered for importation without retrofit of the catalyst, they will be considered not to be within the coverage of this Certificate unless included in a catalyst control program operated by a manufacturer or a United States Government Agency and approved by the Administrator.

Toyo Kogyo-LDT-2	January 6, 1977	James M. Warren
Certificate No.	Date	Office of Air and Waste Management

1977 LD

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CERTIFICATE of CONFORMITY

WITH THE CLEAN AIR ACT OF 1970 ISSUED TO:

Toyo Kogyo Company, Limited
3-1 Shinchi, Fucho-cho, Aki-gun
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The following vehicles are certified as having demonstrated conformance with Federal emission standards only at elevations equal to or lower than 1,219 meters (4,000 feet):

Courier, Mazda B1800

This Certificate covers engine family FVBT, including 109.6-CID engines with air injection, exhaust gas recirculation, charcoal canister, and closed crankcase emission control systems, meeting emission standards specified in 40 CFR 86.077-9(a), 86.077-9(b), and 86.077-9(c). This Certificate is issued subject to the conditions specified in Advisory Circular No. 30A (use of unleaded fuel in non-catalyst-equipped vehicles).

This Certificate covers only those new motor vehicles which conform, in all material respects, to the design specifications that applied to those vehicles described in the Application for Certification and which are produced during the 1977 model year production period of the said manufacturer, as defined in 40 CFR 86.077-2(b).

It is a term of this Certificate that the manufacturer shall consent to all inspections described in 40 CFR 86.077-7(c) which concern either the vehicle certified, or any production vehicle covered by this Certificate, or any production vehicle which when completed will be claimed to be covered by this Certificate. Failure to comply with all the requirements of §86.077-7(c) with respect to any such vehicle may lead to revocation or suspension of this Certificate as specified in 40 CFR 86 077-30(c). It is also a term of this Certificate that this Certificate may be revoked or suspended for the other reasons stated in §86.077-30(c) or (d).

Catalyst-equipped vehicles, otherwise covered by this Certificate, which are driven outside the United States, Canada, and Mexico will be presumed to have been operated on leaded gasoline resulting in deactivation of the catalysts. If these vehicles are imported or offered for importation without retrofit of the catalyst, they will be considered not to be within the coverage of this Certificate unless included in a catalyst control program operated by a manufacturer or a United States Government Agency and approved by the Administrator.

Toyo Kogyo-LDT-1	January 6, 1977	James M. Marzen
Certificate No.	Date	Office of Air and Waste Management

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