F.O. Book

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-16-17-1
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: REP
Engine: 35.0 x 2 CID
Transmission: 4 and 5-Speed Manual, 3-Speed Automatic
Exhaust Emission Control System: Air Injection, Thermal Reactor, Exhaust Gas Recirculation,(EGR for Automatic Transmission only)
Model: Mazda RX-3 SP Coupe

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

G. C. Hass, Chief
Vehicle Emissions Control Division

[X] Passenger Cars [ ] Light-Duty Trucks

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Engine Family REP Engine (CID) ~~40.0 X 2~~ 35.0x2** Engine Code ~~CR-M,CR-A~~

Emission Control System AI + TR + EGR* +10%(A/C) Yes [X] No [ ]

Vehicle Models (If Coded see attachment)	Trans	Inertia Weight	Distributor Type C,V Mfgr. Part Number	Fuel System Type 1-4V Mfgr. Part Number	EGR System Part No. Service*	Tune-Up Specification (1) Basic Timing (2) Idle Mixture (3) Idle Speed
REP Mazda RX-4 Sedan Coupe St. Wagon Mazda Cosmo Coupe	M-4 M-5 A-3 M-5 A-3	3000	Mitsubishi T5T02273	Hitachi KCH348-80 for manual KCH348-85 for automatic	EGV-1 (only for Automatic) Clean	See label attached See Page 2 1) T; 25+4° ATDC L; 5+1° ATDC at idle speed with vac. line connected. 2) Less than 0.1% 3) 750+25 in Neutral for Manual 750+25 in "D" Range for Automatic
Mazda RX-3 SP	M-4 M-5 A-3	2750	Mitsubishi T5T02276 for manual T5T02371 for Automatic	Nippon 210284-421 for manual 210284-441 for Automatic	EGV-1 (only for automatic) Clean	1) T; 20+4° ATDC L; 0+1° TDC at idle sp. with vac. line connected. 2) Less than 0.1% 3) 750+25 in neutral for manual. 750+ in "D" range for automatic.

Comments *EGR for automatic transmission only
**See R/C # RCCREP-2, 7/7/76; E.O. A-16-17

Date of Issue

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

8. Label for Family REP (MAZDA RX-3 SP)
California State

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BASE COLOR -- WHITE

LETTERING & FRAME -- BLACK

Unit: mm
(inch)

VEHICLE EMISSION CONTROL INFORMATION (86498)

MODEL : Mazda RX-3 SP

ENGINE DISPLACEMENT: 35.0 CU.IN. × 2
ENGINE FAMILY: REP
EXHAUST EMISSION CONTROL TYPE: A.I.,T.R.& *E.G.R.
(*AUTOMATIC TRANSMISSION ONLY)

ENGINE TUNE UP SPECIFICATIONS AND ADJUSTMENTS

A. IGNITION TIMING

TRAILING: 20 ±4° ATDC AT IDLE SPEED SPECIFIED BELOW
LEADING: 0 ±1° TDC AT IDLE SPEED SPECIFIED BELOW

(WITH DIST. VACUUM LINE CONNECTED)

B. IDLE ADJUSTMENT

FOLLOW THE INSTRUCTIONS BELOW BEFORE CHECKING OR SETTING THE IDLE SPEED AND THE IDLE MIXTURE:
WARM UP THE ENGINE. TURN OFF ALL ACCESSORIES.
REMOVE THE FUEL FILLER CAP.
PLUG THE IDLE COMPENSATOR HOSE.

B-1. IDLE SPEED AND SETTING PROCEDURE

MANUAL TRANSMISSION : 750 ±25 RPM IN NEUTRAL
AUTOMATIC TRANSMISSION : 750 ±25 RPM IN "D" RANGE

IF THE IDLE SPEED IS NOT AS SPECIFIED ABOVE, ADJUST THE IDLE SPEED TO 750 RPM BY TURNING THE AIR ADJUST SCREW.

B-2. IDLE MIXTURE AND SETTING PROCEDURE

CO : LESS THAN 0.1 %

IF THE CO CONCENTRATION IS LESS THAN 0.1% AND THE ENGINE OPERATION IS STABLE AFTER SETTING THE IDLE SPEED, THE IDLE MIXTURE ADJUSTMENT IS NOT REQUIRED. IF NOT, ADJUST THE IDLE MIXTURE WITH FOLLOWING PROCEDURE.

1. REMOVE THE IDLE LIMITER CAP (PLASTIC CAP) FROM THE MIXTURE ADJUST SCREW (MAS).
2. TURN MAS CLOCKWISE UNTIL THE ENGINE HUNTS SEVERELY.
3. THEN TURN MAS COUNTER-CLOCKWISE IN SMALL STEPS UNTIL CO DECREASES TO 0.1%. (DO NOT OVERTURN MAS TO GET CO LESS THAN 0.1%.)
4. FROM THAT POSITION, TURN MAS COUNTER-CLOCKWISE 1/2 TURN. (IDLE CO SHOULD BE LESS THAN 0.1% AFTER THESE ADJUSTMENTS.)
5. IF THE IDLE SPEED SHIFTS FROM THE SPECIFIED RPM AS THE RESULT OF THE ABOVE PROCEDURE, ADJUST THE IDLE SPEED AND REPEAT THE PROCEDURE 2-4.
6. INSERT THE IDLE LIMITER CAP TO FIX THE MAS POSITION.

C. HIGH IDLE SPEED

FAST IDLE SPEED: 3,200-4,000 RPM UNDER WARM ENGINE CONDITION

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

STATEMENT

THIS VEHICLE CONFORMS TO U.S.E.P.A. 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 1,219 METERS (4,000 FEET).

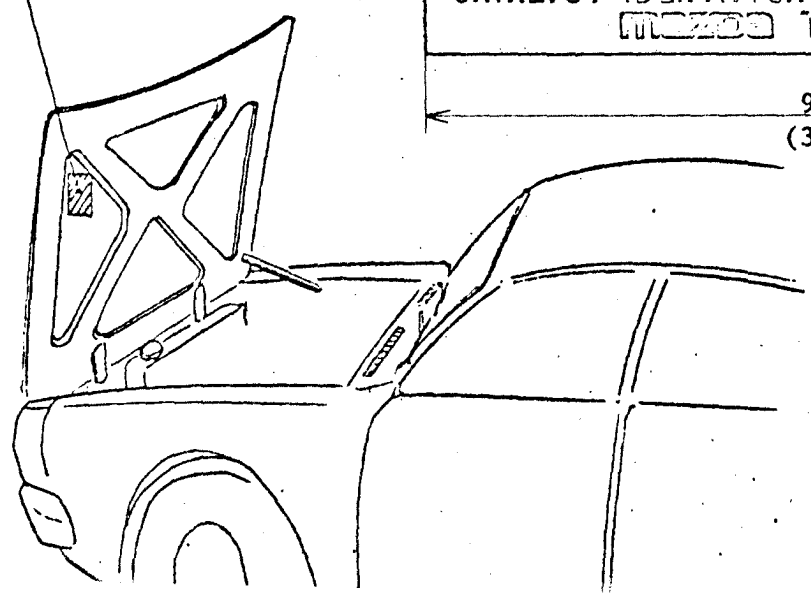
CATALYST IDENTIFICATION: NON CATALYST

MAZDA Toyo Kogyo Co., Ltd.

190 (7.5)

99 (3.9)

LABEL-EMISSION



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DATE ___ EPA REP _____

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