

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-16-108
Relating to Certification of New Motor Vehicles

MAZDA MOTOR CORPORATION

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 1990 model-year Mazda Motor Corporation emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family LTK1.6V5FCE0 Displacement: 1.6 Liters (97.5 inches³)
Equipped with the following exhaust emission control systems:

- Oxygen Sensor
- Three-Way Catalyst
- Multipoint Electronic Fuel Injection
- On-Board Diagnostics (Exempted)

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

| <u>Hydrocarbons</u> <u>(Grams per Mile)</u> | <u>Carbon Monoxide</u> <u>(Grams per Mile)</u> | <u>Nitrogen Oxides</u> <u>(Grams per Mile)</u> |
|--|---|---|
| 0.39 | 7.0 | 0.4 |

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

| <u>Hydrocarbons</u> <u>(Grams per Mile)</u> | <u>Carbon Monoxide</u> <u>(Grams per Mile)</u> | <u>Nitrogen Oxides</u> <u>(Grams per Mile)</u> |
|--|---|---|
| 0.13 | 1.5 | 0.1 |

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 Code of Regulations, 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 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" (Title 13, California Code of Regulations, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compliance with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Code of Regulations, Section 2035 et seq.).

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 9th day of May, 1989.



K. D. Drachand, Chief
Mobile Source Division

1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Manufacturer Mazda Motor Corporation Engine Family LTK1.6V5FCE0
 Evaporative Family E Engine Type I-4
 Liters (CID) 1.6 (97.5 CID)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
 ECU-Electronic Control Unit
 EI-Electronic Ignition
 ESAC-Electronic Spark Advance Control
 VA-Vacuum Advance
 VR-Vacuum Retard

Fuel System

CFI, EPFI, MPFI, SFI,
 DID, DIP, HOS, OS
 nV-nVenturi Carburetor
 VV-Variable Venturi Carburetor

Exhaust Emissions Control System

AIP-Air Injection - Pump
 AIV-Air Injection - Valve
 EGR-Exhaust Gas Recirculation
 EIC-Electronic Injection Control (Diesel Only)
 EM-Engine Modification
 SPL-Smoke Puff Limiter or Throttle Delay
 TOC-Trap Oxidizer, Continual
 TOP-Trap Oxidizer, Periodical
 DBC-Dual Bed Catalyst
 OC-Oxidation Catalyst
 TWC-Three-Way Catalyst
 WUOC-Warm-Up Oxidation Catalyst
 WUTWC-Warm-Up Three-Way Catalyst
 OS-Oxygen Sensor
 HOS-Heated Oxygen Sensor

Special Features

CFI-Central Fuel Injection or Throttle Body Injection
 EPFI-Electronic Port Fuel Injection
 MPFI-Mechanical Port Fuel Injection
 SFI-Sequential Fuel Injection
 DID-Diesel Injection-Direct
 DIP-Diesel Injection-Prechamber
 TC-Turbocharger
 SC-Supercharger
 IC-Intercooler or Aftercooler
 CCV-Combustion Chamber Valve
 OBD-On-Board Diagnostics

VEHICLE MODELS: Mazda 323

Engine: Front X Mid. _____ Rear _____
 Drive: FWD X RWD _____ 4WD Full Time _____ 4WD Part Time _____

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Manufacturer Mazda Motor Corporation Eng. Family LTK1.6V5FCE0Pass Cars Lt-Duty Trucks Med-Duty Vehicles Gas Diesel Eng. Type I-4 Liter (CID) 1.6 (97.5) Evap. Family EEmission Control Sys. (Use SAE Abbrev.) OS, TWC (EPFI, OBD)Engine: Front Mid Rear Drive: FWD RWD 4WD-FT 4WD-PT

| Eng. Code/ (Cert Std.) | Veh. Models (if Coded see Attachmt.) | Trans. Type: A-Auto M-Man. | Equiv. Test Weight | RLHP or DPA | Ign. Sys. (ECU/PROM) Part No. | EGR Syst. Part No. | Catalyst Part No. |
|--|--------------------------------------|----------------------------|--------------------|-------------|----------------------------------|--------------------|-------------------|
| CB6E-M (Std: *) | Mazda 323 | M-5 | 2,500 | 7.0 | Distributor BP01 | N/A | B61L |
| CB6E-MC (Std.: *) | | | | 7.5 | | | |
| CB6E-A (Std.: *) | | A-4 | 2,625 | 6.8 | Control Unit B61K 18 881 C | | |
| CB6E-AC (Std.: *) | | | | 7.5 | | | |
| * Certification Standard: Non-methane HC : 0.39 CO : 7.0 NOx : 0.4 Evap. : 2.0 | | | | | | | |

Date of Issue: _____ Revisions: _____