File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-16-206
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 Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1996 model-year Mazda Motor Corporation exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: TTK1.5VJG2EK Displacement: 1.5 Liters (91 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Warm-Up Three Way Catalytic Converter
Three Way Catalytic Converter
Heated Oxygen Sensors (two)
Exhaust Gas Recirculation
Sequential Multiport Fuel Injection

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

The TLEV certification exhaust emission standards for this engine family in grams per mile are:

Miles	Non-Methane Organic Gas	Carbon Monoxide	Nitrogen Oxides	Formaldehyde	Carbon Monoxide (20°F)
50,000	0.125	3.4	0.4	0.015	10.0
100,000	0.156	4.2	0.6	0.018	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for non-methane organic gas (NMOG) reflect application of a 0.98 RAF for 1996 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are (Values in parentheses are actual certification values before rounding off.):

Miles	Non-Methane Organic Gas	Carbon Monoxide	Nitrogen Oxides	Formaldehyde	Carbon Monoxide (20°F)
50,000	0.087	0.8	0.0 (0.04)	0.001	3.4
100,000	0.093	0.9	0.0 (0.04)	0.001	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average non-methane organic gas (NMOG) exhaust mass emission requirements as set forth 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 under the submitted compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

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" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, 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 vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit 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" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BBE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.1) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

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 provisions (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 19th day of July 1995.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1996AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET E.O.#A-16-206 page 2 of 2

Manufacturer: Mazda Motor Corporation
Engine Family: TTK1.5VJG2EK
Evap Family: TTK1111BYME1

All Eng Codes in Eng Fam: CA X 49S ____ 50S ____ -
Stds. Type : CA Tier-1 ____ AB965 ____ TLEV X LEV ____ ULEV ____ ZEV ____ US EPA Tier 1 ____
Evap Std: Useful Life with R/L
In-Use Exh Std: Full In Use
Veh. Calss: LDV
Single Cert Std for Multi-Class Eng Fam: N/A
Fuel Type(s): Gasoline
Emission Test Fuel(s): Phase II
Service Accum: Std AMA
NMOG Test Procedure: Std
R/L Test Procedure: Pt Source
Hybrid: N/A
APU Cycle: ~~One Spark~~ NA
Engine Config : I-4
Displacement 1.5 Liters (90.9) Cu. inches
Valves/Cly. 4
Rated HP 90 @ 5500 RPM
Engine : Front X Mid. ____ Rear ____
Drive: FWD X RWD ____ 4WD-FT ____ 4WD-PT ____

Exhaust ECS & Special Feature (incl. CARB, MFI, etc.) HO2S(2)/WU-TWC/TWC/EGR/SFI
(Use abbreviations per SAE J1930 MAY91)

Engine Code (Cert, Std.)	Vehicle Model (if coded see attachment)	Trans. Type A-autonatic M-manual	ETW	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalyst Part No.
2Z5D2AA6	Protege	M5	2750	6.3	Distrubutor:	EGR Control	B6GD
2Z5D2AAT	Protege **	M5	2750	6.9	B6BF	Valve:	Z526
2Z5DTAA6	Protege	A4	2875	6.3		B6BF	Z502 *1
2Z5DTAAT	Protege **	A4	2875	6.9	ECU:		
					Z526 (MT)		
					Z527 (AT)		

Revisions:
1290

*1: Added (Refer to page 20-ZD-31)

** with A/C