## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-16-229 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 1998 model-year Mazda Motor Corporation exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: WTKXV02.5VB4 Displacement: 2.5 Liters (152 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Three Way Catalytic Converter
Dual Heated Oxygen Sensors
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 certification exhaust emission standards for this engine family in grams per mile are:

Miles	Non-Methane	Carbon	Nitrogen	Carbon
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Monoxide (20°F)</u>
50,000	0.25	3.4	0.4	10.0
100,000	0.31	4.2	0.6	n/a

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

<u>Miles</u>	Non-Methane	Carbon	Nitrogen	Carbon
	<u>Hydrocarbons</u>	<u>Monoxide</u>	Oxides	<u>Monoxide (20°F)</u>
50,000	0.14	1.3	0.2	7.0
100,000	0.15	1.4	0.2	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 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 NMOG fleet average 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 vehicle manufacturer is certifying the listed vehicle models to the "California Refueling Emission Standards and Test Procedures for 1998 and Subsequent Model Motor Vehicles," Title 13, California Code of Regulations, Section 1978, 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 listed vehicle models also comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE 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)(6.2) ("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 B day of December 1997.

R) B. Summerfield, Chief Mobile Source Operations Division

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1998 AIR RES	OURCES BOAR	D SUPPLEM	ENTAL DA	TA SHEE	T E.O.#	9-16-229 pag	<u>17-KLD-2</u> e <u>2 of 2</u>
All Engine Code Exh Std: CA Veh Class (es):	Mazda Motor Cors in Engine Family Tier-1 X TL PC X LDT1	/: CA4 EV L LDT2	985 EV 2 MD	0S <u>X</u> ULEV V1	AB965,SULEV MDV2 N	ORVR: YES, US EPA	X NO X Tier-1 X MDV5
Fuel Type (s):	or Multi-Class Eng Dedicated CNG	メ Flex-Fuel	l Due	l-Fuel	Bi-Fuel	Gasoline X	Diesel
	CNG	13 CCH 2282		40CFR 8	6.113-90	Other (specify 40 CFR 8	) 6.113-94
Service Accum: NMOG Test Prod Engine Configur Valves per Cylind Engine: Front	ssion Test Proced Std. AMA X cedure: N/A X ation: V-6 der: 4    X Mid. g., MFI, EGR, TC,	Mod AMA  Std Displacement Rear	Eq. : 2.5	Mfr ADP _ uiv / ated HP : _ ive: FWI 2. H	Other ( R/L Test Proc. Liters 152.4 170  X RWD	SHED P 4 / C 6 586 4WD-FT FI/H025(2)	obic Inches RPM 4WD-PT
Engine Code (also list CA/ 49ST/50ST) 1KLDTAAV	Vehicle Models (if coded see attachment) Millenia	Trans. Type (M5, A4 etc.) A4	ETW or Test Wt. 3625	DPA or	· · · · · · · · · · · · · · · · · · ·	EGR System Part No. EGR Control Valve: KLG8	Catalyst Part No. KLL6
Certificatio HC (g/mi) Non-methane CO (g/mi)		, •••	00,000 mil	e/120,000	mile)		

Engine Code	Vehicle Mod	lels	Trans. Type	ETW	DPA	Ignition	EGR	[
(also list CA/	(if coded see		(M5, A4	or	or	(ECM/PCM)	System	Catalyst
49ST/50ST)	attachment)		etc.)	Test Wt.	RLHP	Part No.	Part No.	Part No
IKLDTAAV	Millenia		A4	3625	5.8	Distrubutor:  KF34  ECU:  KLL6 / KLP2	EGR Control Valve: KLG8	KLL6
Certificatio  HC (g/mi)  Non-methane CO (g/mi)	n Standards HC (g/mi)	0.41 0.25 3.4	00 mile/ 1	, ,	e/1 <b>20</b> ,000	( mile)		
NOx (g/mi)		0.4	, 0.6	, ***				
HWFET NOX		0.5	, 0.8	, 100				
Evap. (EPA : g/test) Evap. (ARB : g/test)		***	, 2.0	, <del>***</del>				
Evap. (Abbrev : g/test)		•••	, 2.5	, ***				
Running Loss (g/test)		***	, 0.05	, ***		ľ		
Spit Back (g/test)		***	, 1.0	, ***				
ORVR (g/gallon) Cold CO (g/mi) 10.0		***	, 0.2	1 ***				
		10.0	, ***	j ***				
		at Idle:	Idle: 100, at 2500 rpm:100					
CST-CO		at Idle:	0.5, at 2500	rpm :0.5				
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November 14, 1997

Issue date:

Rev. No. Date

Revisions: 1290