State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-16-240 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 2000 model-year Mazda Motor Corporation exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type: Gasoline

Engine Family: YTKXV01.8VFN Displacement: 1.8 Liters (112 Cubic Inches)

Exhaust Emission Control Systems & 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 LEV certification exhaust emission standards for this engine family in grams per mile are:

<u>Miles</u>	Non-Methane <u>Organic Gases</u>	Carbon <u>Monoxide</u>	Oxides of <u>Nitrogen</u>	<u>Formaldehyde</u>	Carbon <u>Monoxide (20°F)</u>
50,000	0.075	3.4	0.2	0.015	10.0
100,000		4.2	0.3	0.018	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.94

The certification exhaust emission values set forth for non-methane organic gases (NMOG) reflect application of a 0.94 RAF for 2000 model-year LEVs. The LEV certification exhaust emission values for this engine family in grams per mile are:

<u>Miles</u>	Non-Methane <u>Organic Gases</u>	Carbon <u>Monoxide</u>	Oxides of <u>Nitrogen</u>	<u>Formaldehyde</u>	Carbon Monoxide (20°F)
50,000	0.045	1.0	0.1	0.0004	5.5
100,000	0.046	1.1	0.1	0.0004	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 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." MAZDA MOTOR CORPORATION

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BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) 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 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 28 day of June 1999.

R. B. Summerfiele, Chief Mobile Source Operations Division

2000 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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17-S-2

Manufacturor Max	rda Motor Coroot	ation Exh	Eng Fam: YTK	XV01.8VFN	Evap Fam:	YTKXR012	OBFB
All Engine Codes in En	gine Family:	CA 49	s50S	X AB965	, ORVR:	YES X	- NO
Exh Std : CA Tier	-1TL	EV LE	V <u>X</u> ULE	V SUI	LEV	US EPA	MOVE
Veh Class (es): PC	X LDT1	LDT2_	MDV1	MDV2	MDV3_	MUV4	MDV3
Single Cert Std for Mult	i-Class Eng Fan	n: <u>N/A</u>	(specify : N	I/A, LDT1, MDV1	, MDV2, MDV3,	MDV4)	•
Fuel Type (s) :	Dedicated	Flex-Fuel	Duel-Fu	el Bi-Fue	d Gas	oline X	Diesel
	CNG	LNG	LPG	M85	Other (specif	y)	
Evo Emiss Test Fuel (s	a): Indo	CBG	CNG	LPG M8	5 Oth	er (specify)	Phase Il
EXIT Emiss Tost Foot A	Diesel :	13 CCR 2282	40C	FR 86.113-90		10 CFR 86.11	3-94
Evaporative Emission	Test Procedure :	California	F	ederal <u>X</u>			
Service Accum :	Std. AMA X	Mod AMA	Mfr	ADP	Other (specif	y)	
NMOG Test Procedure	• N/A	. – Std X	Equiv	R/L Tes	t Proc : SHE	тя <u> </u>	Source X
Engine Configuration :	I_4	Displacement :		Liters	112.3 /	Cub	ic Inches
Engine Conniguration :			Rated I	 HP: 1.1	38 @	6500	RPM
Engine : Front	 Mid	Rear	Drive:	FWD F		D-FT	4WD-PT
Exhaust ECS (e.g., MF	C):		a abbreviations (ner SAE J1930	MAY91)		
			(0,	as assistatione p		'	

E in Orde	Vahiela Models	Trans Type	ETW	DPA	Ignition	EGR	Catalyst
Engine Code		ALE MA	or	or	(ECM/PCM)	System	Part No.
(also list CA/	(if coded see	(M5, A4	01			Dart No	
40ST/50ST)	attachmenti	etc.)	Test Wt.	<u>HLHP</u>	Part No.	Partino.	
	MY-5 Miata	M5	2625	8.0	Distrubutor:	EGR Control	BP4 Y
FBPDZLAA	WIN-D Mildia				N/A	Valve:	BP5M
						DDAW	
FBPD2LAY				8.8	ECU:	DIT	
	1				BP5T		
	-	A.1	2875	87	Distrubutor:]	BP42
FBPDTLAA		A4	2075	0	21/4		BPSN
				ļ	NA		0.5.1
CODDTI A V	1		2750	9.0	IECU:		
FBPDILAI					BP5L		
HC (p/mi) NMOG (p/mi) NMHC (p/mi) CO (p/mi) NOx (p/mi) HWFET NOx (p	نے و ہے کے (۱۳۷۷	0.075 / 0.05 	/ •• / •• / •• / •• / ••	·			-
Even. (EPA : 0/	(test)	··· / ···		<u>. </u>		1	
Evep. (ARB : p/	(1881)	<u> </u>					
Evep. (Abbrev :	g/test)	/ 10		•			
Running Loss (s	g/teet)	/ / /	/	•		1	
Spit Beak (g/ter	-()	/ 0.2	1	•	1		
ORVA (g/gallon	n) -	10.0 / •••	/	••			
		/	/	<u> </u>			
		15 / 18		·			
	-		/	<u>. </u>			
CST -CO (74)	-	/	/	<u> </u>			•
NMOG (g/mi) K	or 60"F	0.150 /	/	<u>•</u>			
1	101 50"E	30 / / / /		<u> </u>	1 · ·		

Revisions:

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Issue Date	April 23, 1999	 · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Rev. No.		 	
Date			

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