## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-16-226 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: WTKXV02.3VB2 <u>Displacement</u>: 2.3 Liters (138 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Dual Warm Up Three Way Catalytic Converters
Three Way Catalytic Converter
Dual Heated Oxygen Sensors (two)

Exhaust Gas Recirculation

Supercharger Charge Air Cooler

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:

<u>Miles</u>	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	<b>0</b> .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 <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	Ī	Carbon Monoxide (20°F)
50,000	0.16	1.4	0.1	,	6.6
100,000	0.17	1.5	0.1		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 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 2 day of July 1997.

R. B Summerfield, Chief

Mobile Source Operations Division

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	•						1-16-226 page	<u>17-KJS-2</u>
1998 AIR RESC	OURCES E	BOAR	SUPPLEME	NTAL DAT	ra sheet	E.O.# <i>/</i>		2 of 2
Manufacturer	Mazda Mot	or Corp	oration Ex	h Eng Fam	: WTKXV	<u>/02.3VB2</u> Evap	Fam: WTKXE	0120AFA
All Engine Codes	in Engine	Family	: CA4	9S5	0S <u>X</u> A	B965, O	RVR: YES	NO X_
Exh Std : CA	Tier-1 X	_ TLE	EV LE	ΞV (	JLEV	SULEV	_, US EPA	Tier-1
Veh Class (es) : I	-c <u>x</u>	LDT1	 LDT2	MD	V1	MDV2MD	V3 MDV4	MDV5
Single Cert Std fo	or Multi-Clas	ss Eng	Fam : N/A	(spec	ify: N/A, LC	OT1, MDV1, MDV	2, MDV3, MDV4	<del>(</del>
Fuel Type (s):	Dedica	ted _x	Flex-Fuel	Duel	l-Fuel	Bi-Fuel	Gasoline X	Diesel
						Other (sp		
Exh Emiss Test F	Fuel (s): In	ndo 2	K CBG	CNG	LPG	M85	Other (specify)	
	D	iesel:	13 CCR 2282		40CFR 86	.113-90	40 CFR 86	.113-94
Evaporative Emi:	ssion Test F	Proced	ure: Californi	a	Federal	<u>x</u>		
Service Accum:	Std. AMA	<u> </u>	Mod AMA	<u>-</u>	Mfr ADP	Other (sp	ecify)	
NMOG Test Prod	cedure: 1	V/A	<u>K</u> Std	Equ	uiv	R/L Test Proc : 3	SHEDPT	Source X
Engine Configura	ation:	7-6	Displacement	: 2.3	1	Liters137.6	/ Ct	ibic Inches
Valves per Cylind	der: <u>4</u>	_		Ra	ated HP :	210	<u>530</u>	RPM
Engine : Front	<u> </u>	lid	Rear	Dr	rive: FWD	X RWD	4WD-FT	4WD-PT
Exhaust ECS (e.g	g., MFI, EGI	R, TC,	CAC):	2H025(2	) / TWC/	ŴU-TWC/EGR/SI	FI/SC/CAC	
				(	Use abbrevi	iations per SAE J	1930 MAY91)	
	<b>T.</b>				<b>1</b>		·	
Engine Code	Vehicle M	odels	Trans. Type		DPA	Ignition	EGR	
(also list CA/			(M5, A4			(ECM/PCM)		Catalyst
49ST/50ST)	attachn	nent)	etc.)	Test Wt.	RLHP	Part No.	Part No.	Part No.
KKJSTAAV	Millen	ia	A4	3750	5.7	Distrubutor:	EGR Control	KJ13
	]					ECU:	Valve: KJ01	KJ02 KJ02
	<b>[</b>					KJ17		1.002
Certification	t Standards	5 (50.0	000 mile/ 100	),000 mile/	120,000 m	ile)		
		, ,			·	•		
HC (g/mi)		0.41	,	. ***				
Non-methane H	IC (g/mi)	0.25	, 0.31	***				
CO (g/mi)		3.4	,4.2	***				
NOx (g/mi)		0.4	, 0.6	+				
HWFET NOx (9	/mi)	0.5	, 0.8					
Evap. (EPA : g	/test)	***						
Evap. (ARB : g				***				
Evap. (Abbrev		***					<u> </u>	
Running Loss (	_	•••						
Soit Back Jolto	1		1.0				1	· •

.5							1	
also list CA/	(if coded see		(M5, A4	or	or	(ECM/PCM)	System	Catalys
49ST/50ST)	attachment)		etc.) Test Wt.		RLHP	Part No.	Part No.	Part No
KKJSTAAV Miller		nia	A4	3750	5.7	Distrubutor:	EGR Control	KJ13
						***	Valve:	KJ02
						ECU:	KJ01	KJ02
						KJ17		
Certification	Standard	s (50,0	000 mile/ 100	,000 mile/	120,000 m	le)		
110 (-()		0.41						
HC (g/mi)	<b></b>	0.41						
Non-methane H	C (g/mi)	0.25		***				
CO (g/mi)		3.4	,4.2	***				
NOx (g/mi)		0.4	, 0.6	+				
HWFET NOx (9/	mi)	0.5	, 0.8					
Evap. (EPA : g/	test)	***	, 2.0					
Evap. (ARB : g/	test)		, 2.0	***				
Evap. (Abbrev	g/test)	***	, 2.5	***				
Running Loss (g/test)		***	, 0.05	***				
Spit Back (g/test)			, 1.0	***				
Cold CO (g/mi)		10.0	,	•••			•	
CST-HC		at Idle: 100at 2500rpm: 100		: 100				
CST-CO		at Idle: 0.5at 2500rpm: 0.5		0.5				
-						,		

Revisions:

1290

Issue date:	April 25, 1997	]	 
Rev. No.			
Date			