## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-16-244 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: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: YTKXV02.5VDM Displacement: 2.5 Liters (152 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
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 Gases	Carbon <u>Monoxide</u>	Oxides of <u>Nitrogen</u>	<u>Formaldehyde</u>	Carbon Monoxide (20°F)
50,000	0.125	3.4	0.4	0.015	10.0
100,000	0.156	4.2		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 gases (NMOG) reflect application of a 0.98 RAF for 2000 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

<u>Miles</u>	Non-Methane Organic Gases	Carbon <u>Monoxide</u>	Oxides of <u>Nitrogen</u>	<u>Formaldehyde</u>	Carbon Monoxide (20°F)
50,000	0.070	0.8	0.1	0.001	6.2
100,000	0.075	0.9		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 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."

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 2 day of June 1999.

R. B. Summerfield, Chief

Mobile Source Operations Division

## 2000 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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		·							
Manufacturer	Mazda M	otor Corpo	ration Ex	h Eng Fam:	YTKXV02.5	VDM E	vap Fam: Y	TKXR0125BFC	
All Engine Codes i	in Engine	Family: C	A+NTR <u>X</u> 4	95	50S	AB965	ORVR:	YES X N	io
Exh Std: CA	A Tier-1	Т	LEV X L	EV	ULEV	_ SULEV_	, (	JS EPA <del>Fier 1</del>	<u>Restricted</u>
Veh Class (es) :	PC X	LDT*	LDT2	МС	OV1	MDV2	MDV3	MDV4N	MDV5
Single Cert Std for	Multi-Cla	– ss Eng Fa	m: N/A	(spec	ify: N/A, LD	T1, MDV1, MDV	2, MDV3, MD	V4)	
Fuel Type (s):	De	dicated	Flex-Fuel	 Du	el-Fuel	Bi-Fuel	Gasolin	e X Dies	sel
			LNG						
Exh Emiss Test Fu	uel (s) :	Indo	CBG	CNG	LPG	M85	Other (	specify)	
						13-90 40 CFR 86.113			
Evaporative Emiss	sion Test F						_		
Service Accum :	Std. A	MA X	Mod AMA		Mfr ADP	Othe	er (specify)		
NMOG Test Proce	dure :	N/A	X Std	Ec	— viut	R/L Test Proc	: SHED	PT Source	ce X
Engine Configurati									
zalves per Cylinde		A	Diopita on the internal	R:	ated HP :	165	@	5500	RPM
valves per Cylinde Engine : Front	۰. ۲	Mid	Rear	Dr	ive: FWE	x RWD	 4WD-F	T 4WD-F	PT
Engine : Front Exhaust ECS (e.g.	MELEC	_ MIIO. —	(C):		./ > 1	102S/TWC/EGR/	SFI	·	
Exhaust EGS (e.g.	., MILI, EQ	in, 10,02		20010	() lee abbre	eviations per SAI	= .11930 MAY	91)	
			et <sup>a</sup>		(OSE BODIE	viations por OA	_ 5 (500 N/// )	~ .,	
								<u> </u>	
Engine Code	Vehicle	e Models	Trans. Type	ETW .	DPA	Ignition			talyst
(also list CA/	(if cod		(M5, A4 etc.)			(EGM/PGM			t No.
49ST/50ST)		chment)		Test Wt.		Part No.	<del> </del>		56
DKLD2AAA	1 6	526	M5	3375	6.5	Distrubutor:	EGR Co Valve:		20
			i			N.A.	vaive:		

							1
Engine Code	Vehicle Models	Trans. Type	ETW 🕹	DPA	Ignition	EGR	Catalyst
(also list CA/	(if coded see	(M5, A4 etc.)	or	or .	(EGM/PGM)	System	Part No.
49ST/50ST)	attachment)	,,	Test Wt.	RLHP	Part No.	Part No.	
DKLD2AAA	626	M5	3375	6.5	Distrubutor:	EGR Control	KLS6
DRLDZAAA	020	1113			N.A.	Valve:	
				7.3	TECU:	KLG4	
DKLD2AAY				7.2	1	KLO#	
					KLS6. KLS2		
DKLDTAAA		A4	3375	6.5	Distrubutor:		
					N.A.	1.	
DKLDTAAY				. 7.2	ECU:		
DREDTAAL					KLS7, KLS3		
						<del> </del>	i
HC (g/ml)		. , ,	,				
NMOG (p/ml)	0.1	25 / 0,156	/ ***				
Non-methane HC (	عامر) <u></u>	. , , , , , , , , , , , , , , , , , , ,	,		ļ		
CO (g/ml)	<u>.3.4</u>				İ		*
NOx (g/ml)	0 4						
HWFET NOx (g/m)							
Even. (EPA : g/test	<del></del> -		J	<del></del> -			
Evap. (AR8 ; g/test							
Evep. (Abbrev: g/te Running Loss (g/te			/				
Spit Back (g/test)	ai) <u></u>						
ORVR (g/pallon)	<del></del>		/				
Cold CO (g/ml)	10		/				
idie CO for LDT (%)	· ·		,		1		
HCHO (mp/ml)	1.5	/ 18	1,				
CST-HC		ld le: 100, at 2500rg			1		
CST-CO		lulie: 0,5, ±t 2500rp					
NMOG (g/ml) for 50							
HCHO (mg/ml) for 8	50°F <u>:10</u>	/ •••	. / •••		1	1	1

Revisions:

Issue Date	April 23, 1999	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Rev. No.	1		
Date		·	<u></u>