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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-16-236 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 1999 model-year Mazda Motor Corporation exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: XTKXV02.5VB2 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	Oxides of	Carbon
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Nitrogen</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:

Miles	Non-Methane	Carbon	Oxides of	Carbon
	Hydrocarbons	<u>Monoxide</u>	<u>Nitrogen</u>	<u>Monoxide (20°F)</u>
50,000	0.17	1.4	0.1	7.2
100,000	0.19	1.6	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 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 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 20 day of July 1998.

R) B. Summerfield, Chief

-Mobile Source Operations Division

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Manufacturer	Mazda Motor Corpet	ration Exh	Eng Fam:	XTKXV02.5	VB2 Evap	Fam: XTKXR0	125BFA
All Engine Codes in	Engine Family:	CA 49	3S 5	os x	AB965, OF	RVR: YES	<u>x</u> NO
Exh Std: CA	Tier-1 X TL	EV LE		ULEV	SULEV	, US EPA	Tier-1
Veh Class (es): F	PC X LDT1	LDT2	MD	V1	MDV2 MD	V3 MDV4	MDV5
Single Cert Std for I	Multi-Class Eng Far	π: N/A	 (speci	fy : N/A, LDT	1, MDV1, MDV2, M	DV3, MDV4)	
Fuel Type (s)	Dedicated	✓ Flex-Fuel	Due	ei-Fuel	Bi-Fuel	Gasoline X	Diesel
, del 1356 (e) :	CNG	LNG	LPG	M85	Other (s	pecify)	
Evh Emiss Test Fus	al (e): Indo	X CBG	CNG	LPG	M85	Other (specify)	
EXIT CITIES TEST OF	Diesel:	13 CCR 2282		40CFR 86.1	13-90	40 CFR 86.1	113-94
Evaporative Emissi							
Service Accum :				Mfr ADP	Other (s	pecify)	
NMOG Test Proced	fure: N/A	 X Std	 Eq	uiv	R/L Test Proc :	SHED F	PT Source X
Engine Configuration	on: V-6	Displacement :	2.5	/	Liters <u>152.4</u>	/ Cu	ubic Inches
Valves per Cylinder	4		Ra	ited HP :	170	<u>@</u> 600	0 RPM
Engine : Front	X Mid.	Rear	Dri	ive; FWD	X RWD	4WD-FT	4WD-PT
Exhaust ECS (e.g.	MFI, EGR. TC, CA	.C):	H025((2) / zi	HO2S/TWC/EGR/SFI	_	
Exhaust 200 (c.g.,	1711 I, 2201 I, 121 21		<u>-</u>		viations per SAE J1		
				•	·		
	Mahiala Mandala	Trans. Type	ETW	2004	1	FOR	Catalyst
Engine Code	Vehicle Models	i irans ivoe i					
	(if coded see	1		DPA nr -	Ignition (FCM/PCM)	EGR System	Catalyst Part No.
(also list CA/ 49ST/50ST)	(if coded see attachment)	(M5, A4 etc.)	or Test Wt.	or -		System Part No.	Part No.
49ST/50ST) BKLD2AA8	(if coded see attachment) 626	1	or	or -	(ECM/PCM)	System Part No. EGR Control	1 '
49ST/50ST) BKLD2AA8	attachment)	(M5, A4 etc.)	or Test Wt.	or - RLHP ##	(ECM/PCM) Part No. Distrubutor: N.A.	System Part No. EGR Control Valve:	Part No.
49ST/50ST)	attachment)	(M5, A4 etc.)	or Test Wt.	or - RLHP	(ECM/PCM) Part No. Distrubutor: N.A. ECU:	System Part No. EGR Control Valve: KLG4	Part No.
49ST/50ST) BKLD2AA8 BKLD2AAW	attachment)	(M5, A4 etc.)	or Test Wt. 3250	or · RLHP ## ##	(ECM/PCM) Part No. Distrubutor: N.A. ECU: KLM8, KLG6	System Part No. EGR Control Valve: KLG4	Part No.
49ST/50ST) BKLD2AA8	attachment)	(M5, A4 etc.)	or Test Wt.	or - RLHP ##	(ECM/PCM) Part No. Distrubutor: N.A. ECU:	System Part No. EGR Control Valve: KLG4	Part No.
49ST/50ST) BKLD2AA8 BKLD2AAW	attachment)	(M5, A4 etc.)	or Test Wt. 3250	or · RLHP ## ##	(ECM/PCM) Part No. Distrubutor: N.A. ECU: KLM8, KLG6 Distrubutor: N.A. ECU:	System Part No. EGR Control Valve: KLG4	Part No.
BKLD2AAW BKLDTAA8	attachment)	(M5, A4 etc.)	or Test Wt. 3250	or · RLHP ## ##	(ECM/PCM) Part No. Distrubutor: N.A. ECU: KLM8, KLG6 Distrubutor: N.A.	System Part No. EGR Control Valve: KLG4	Part No.
BKLD2AA8 BKLD2AAW BKLDTAA8 BKLDTAA8 BKLDTAAW	attachment) 626	(M5, A4 etc.) M5 A4	or Test Wt. 3250	or · RLHP ## ## ##	(ECM/PCM) Part No. Distrubutor: N.A. ECU: KLM8, KLG6 Distrubutor: N.A. ECU:	System Part No. EGR Control Valve: KLG4	Part No.
BKLD2AAW BKLD7AAW BKLDTAA8 BKLDTAA8 BKLDTAAW HC (g/ml) NMOG (g/ml)	attachment) 626	(M5, A4 etc.) M5	or Test Wt. 3250	or · RLHP ## ## ##	(ECM/PCM) Part No. Distrubutor: N.A. ECU: KLM8, KLG6 Distrubutor: N.A. ECU:	System Part No. EGR Control Valve: KLG4	Part No.
BKLD2AA8 BKLD2AAW BKLDTAA8 BKLDTAA8 BKLDTAAW	attachment) 626 10 (g/mi) 0 3	(M5, A4 etc.) M5 A4 41 / 25 / 0.31 4 / 4.2	or Test Wt. 3250	or · RLHP ## ## ##	(ECM/PCM) Part No. Distrubutor: N.A. ECU: KLM8, KLG6 Distrubutor: N.A. ECU:	System Part No. EGR Control Valve: KLG4	Part No.
BKLD2AAW BKLD2AAW BKLDTAA8 BKLDTAA8 BKLDTAAW HC (g/ml) NMOG (g/ml) Non-methane HCO (g/ml) NOX (g/ml)	attachment) 626 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(M5, A4 etc.) M5 A4 41 / 25 / 0.31 4 / 4.2 4 / 0.6	or Test Wt. 3250	or · RLHP ## ## ##	(ECM/PCM) Part No. Distrubutor: N.A. ECU: KLM8, KLG6 Distrubutor: N.A. ECU:	System Part No. EGR Control Valve: KLG4	Part No.
BKLD2AA8 BKLD2AAW BKLDTAA8 BKLDTAA8 BKLDTAAW HC (g/mi) NMOG (g/mi) Non-methane H CO (g/mi) NOX (g/mi) HWFET NOX (g	attachment) 626 C (g/mi) O 3 O 9/mi) O 0	(M5, A4 etc.) M5 A4 A4 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	or Test Wt. 3250	or · RLHP ## ## ##	(ECM/PCM) Part No. Distrubutor: N.A. ECU: KLM8, KLG6 Distrubutor: N.A. ECU:	System Part No. EGR Control Valve: KLG4	Part No.
BKLD2AAW BKLD2AAW BKLDTAA8 BKLDTAA8 BKLDTAAW HC (g/ml) NMOG (g/ml) Non-methane HCO (g/ml) NOX (g/ml)	attachment) 626 1C (g/mi) 9/mi) 1est)	(M5, A4 etc.) M5 A4 A4 (M5, A4 etc.)	or Test Wt. 3250	or · RLHP ## ## ##	(ECM/PCM) Part No. Distrubutor: N.A. ECU: KLM8, KLG6 Distrubutor: N.A. ECU:	System Part No. EGR Control Valve: KLG4	Part No.
BKLDZAAW BKLDZAAW BKLDTAA8 BKLDTAAW HC (g/mi) NMOG (g/mi) Non-methane H CO (g/mi) NOX (g/mi) HWFET NOX (g Evap. (APB: g/ Evap. (APB: g/ Evap. (ABB: g/	attachment) 626 1C (g/mi) 9/mi) 1cest) 1cest) 1cytest) 1cytest)	(M5, A4 etc.) M5 A4 41 / 25 / 0.31 4 / 4.2 4 / 0.6 5 / 0.8 / 2.0 / 2.0 / 2.5	or Test Wt. 3250	or · RLHP ## ## ##	(ECM/PCM) Part No. Distrubutor: N.A. ECU: KLM8, KLG6 Distrubutor: N.A. ECU:	System Part No. EGR Control Valve: KLG4	Part No.
HC (g/mi) NOOG (g/mi) NOO-methane FCO (g/mi) NOX (g/mi) HWFET NOX (gEVAP. (ARB : g/EVAP. (ABbrev : Running Loss (attachment) 626 C (g/mi)	(M5, A4 etc.) M5 A4 41 / 25 / 0.31 4 / 4.2 4 / 0.6 5 / 0.8 / 2.0 / 2.5 / 0.05	or Test Wt. 3250	or · RLHP ## ## ##	(ECM/PCM) Part No. Distrubutor: N.A. ECU: KLM8, KLG6 Distrubutor: N.A. ECU:	System Part No. EGR Control Valve: KLG4	Part No.
HC (g/ml) NON-methane HC (g/ml) NON-methane HC (g/ml) NON-methane HC (g/ml) NON-(g/ml) NON (g/ml) HWFET NON (gEVAP. (EPA: g/EVAP. (ABB: g/EVAP. (Abbrev: Running Loss (Spit Back (g/tes	attachment) 626 1C (g/mi) output g/mi) output ttest) cutest)	(M5, A4 etc.) M5 A4 41 / 25 / 0.31 4 / 4.2 4 / 0.6 5 / 0.8 / 2.0 / 2.0 / 2.5	or Test Wt. 3250	or · RLHP ## ## ##	(ECM/PCM) Part No. Distrubutor: N.A. ECU: KLM8, KLG6 Distrubutor: N.A. ECU:	System Part No. EGR Control Valve: KLG4	Part No.
HC (g/mi) NOOG (g/mi) NOO-methane FCO (g/mi) NOX (g/mi) HWFET NOX (gEVAP. (ARB : g/EVAP. (ABbrev : Running Loss (attachment) 626 1C (g/mi) 9/mi) 1ctest) 1ctest) 1ctest) 1ctest) 2ctest)	(M5, A4 etc.) M5 A4 41	or Test Wt. 3250	or · RLHP ## ## ##	(ECM/PCM) Part No. Distrubutor: N.A. ECU: KLM8, KLG6 Distrubutor: N.A. ECU:	System Part No. EGR Control Valve: KLG4	Part No.
HC (g/mi) NON-methane FCO (g/mi) NON (g/mi) HWFET NON (gFVAP. (ARB : g/EVAP. (ARB	attachment) 626 (C (g/mi) 0 (mi) 0 (test) (test) (g/test) (g/test) (h) (1)	(M5, A4 etc.) M5 A4 A4	or Test Wt. 3250	or · RLHP ## ## ##	(ECM/PCM) Part No. Distrubutor: N.A. ECU: KLM8, KLG6 Distrubutor: N.A. ECU:	System Part No. EGR Control Valve: KLG4	Part No.
HC (g/ml) NON-methane HCO (g/ml) NON-methane HCO (g/ml) NON-methane HCO (g/ml) NON-MET NON (gEVAP. (ARB: g/EVAP. (ARB: g/EVAP. (ABDrev: Running Loss (grit Back (g/tes ORVR (g/gallor Cold CO (g/ml)) HCHO (mg/ml)	attachment) 626 1C (g/mi) o o o continuo g/mi) o o o o o o o o o o o o o	(M5, A4 etc.) M5 A4 A4 A4 A4 A4 A2 A	or Test Wt. 3250	or · RLHP ## ## ##	(ECM/PCM) Part No. Distrubutor: N.A. ECU: KLM8, KLG6 Distrubutor: N.A. ECU:	System Part No. EGR Control Valve: KLG4	Part No.
HC (g/ml) NON-methane HC (g/ml) NON (g/ml) HWFET NON (gEvap. (ABB: g/Evap. (Abbrev: Running Loss (Spit Back (g/ted ORVR (g/gallor Cold CO (g/ml)) Idle CO for LDT HCHO (mg/ml) GST -HC	attachment) 626 1C (g/mi) 9/mi) 1ctest) 1ct	(M5, A4 etc.) M5 A4 A4 A4 A4 A4 A4 A2 A A2 A A2 A A A3 A A4 A A2 A A A4 A A4	or Test Wt. 3250 3375	or · RLHP ## ## ##	(ECM/PCM) Part No. Distrubutor: N.A. ECU: KLM8, KLG6 Distrubutor: N.A. ECU:	System Part No. EGR Control Valve: KLG4	Part No.
HC (g/ml) NON-methane HCO (g/ml) NON-methane HCO (g/ml) NON-methane HCO (g/ml) NON-MET NON (gEVAP. (ARB: g/EVAP. (ARB: g/EVAP. (ABDrev: Running Loss (grit Back (g/tes ORVR (g/gallor Cold CO (g/ml)) HCHO (mg/ml)	attachment) 626 4C (g/mi) 9/mi) 1est) (test) 2g/test) 2g/test) 2g/test) 3 1 1 1 1 1 1 1 1 1 1 1 1	(M5, A4 etc.) M5 A4 A4 A4 A4 A4 A2 A	or Test Wt. 3250 3375	or · RLHP ## ## ##	(ECM/PCM) Part No. Distrubutor: N.A. ECU: KLM8, KLG6 Distrubutor: N.A. ECU:	System Part No. EGR Control Valve: KLG4	Part No.

Revisions:

	Issue Date	May 15, 1998		
Π	Rev. No.			
	Date			