

#### MAZDA MOTOR CORPORATION

EXECUTIVE ORDER A-016-0287
New Passenger Cars, Light-Duty Trucks
and Medium-Duty Vehicles

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Div. 26, Part 5, Chap. 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 & 39516 and Executive Order G-02-003;

#### IT IS ORDERED AND RESOLVED

That the following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

MODEL YEAR			EXHAUST EMISSION STANDARD CATEGORY	' (mi	JL LIFE les)	IN- COMF (*=N/A or A/E=ex	MEDIATE -USE PLIANCE r full in-use; (h. / evap.	FUEL TYPE
2004	4TKXV03.0ALA	Passenger Car	Ultra Low Emission Vehicle (ULEV)	EXH / ORVR	EVAP	EXH	EVAP	Casalina
5.000	***			100K			*	Gasoline
No.		SPECIAL FEATURES	E246	E FAMILY (EV				EMENT (L)
1	2WU-TWC, 2TWC	C, 2HO2S(3), SFI, EGR, OBD(P)	4TKXI	R0150PPA				
•		*		*				
*		*		*			3	
•		*		*				

See the Attachment for Vehicle Models, Evaporative Family, Engine Displacement, Emission Control Systems, Phase-In Standards, OBD Compliance, Emission Standards and Certification Levels, and Abbreviations.

#### **BE IT FURTHER RESOLVED:**

That the exhaust and the evaporative emission standards and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50° Fahrenheit testing requirement may have been met based on the manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's "NMOG Fleet Average" (PC or LDT) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

#### **BE IT FURTHER RESOLVED:**

That for the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 [emission control labels], 1968.1 [on-board diagnostic, full or partial compliance], 2035 et seq. [emission control warranty], 2235 [fuel tank fill pipes and openings] (gasoline and alcohol fueled vehicles only), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model PC, LDT and MDV).

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this

Allen Lyons, Chief

Mobile Source Operations Division

day of July 2003.

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

## **ATTACHMENT**

# EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

(For bi-, dual- or flexible-fueled vehicles, the STD and CERT in parentheses are those applicable to testing on gasoline test fuel.)

		FLEET E [g/mi]		@ RAF=* !AF = *	I NIMOG OF	CH4=methane; NMOG=non-CH4 organic gas; NMHC=non-CH4 hydrocarbon; CO=carbon monoxide; NOx=oxides of nitrog MCHO=formaldehyde; PM=particulate matter; RAF=reactivity adjustment factor; 2/3 D [g/test]=2/3 day diurnal+											
CE	RT	STD	NMOG	NMHC	1 NMHC	hot-soak; R	hot-soak; RL [g/mi]=running loss; ORVR [g/gallon dispensed]=on-board refueling vapor recovery; g=gram; mg=milligram mi=mile; K=1000 miles; F=degrees Fahrenheit; SFTP=supplemental federal test procedure										
0.0	064	0.053	CERT [g/mi]	CERT [g/mi]	[g/mi]	CO	g/mi]	NOx	[g/mi]	НСНО	[mg/mi]	PM [		Hwy NO	x [g/mi]		
	gwen scannon		[8,]	[8,]		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD		
		@ 50K	0.024	*	0.040	0.7	1.7	0.1	0.2	0.3	8.	*	*	0.02	0.3		
		@ UL	0.028	*	0.055	1.0	2.1	0.1	0.3	0.4	11.	*	*	0.04	0.4		
	@	50°F & 4K	*	*	*	•	•	•	*	*	*	*	*	•	*		

CO [g/mi]				Ox [g/mi] oosite)		g/mi] oosite)		+NOx [US06]	co [	g/mi] 06]		C+NOx [SC03]	[SC]	
@ 2	0°F & 50K	ALC: A Park	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
CERT	2.2	SFTP @ 4000 miles	*	*	*	*	0.08	0.14	2.0	8.0	0.02	0.20	0.3	2.7
STD	10.0	SFTP @ * miles	*	*	*	*		*,	*	*				*

Evaporative Family		al + Hot Soak est) @ UL		2-Days Diurnal + Hot Soak (grams/test) @ UL		Loss le) @ UL	On-Board Refueling Vapor Recovery (grams/gallon) @ Ul			
	CERT	STD	CERT	STD	CERT	STD	CERT	STD		
4TKXR0150PPA	0.9	2.0	1.0	2.5	0.001	0.05	0.03	0.20		
*	*	*	*	#	*	*	•	•		
*	*	*	*	*	•	•	•	- *		
*	*	*	*	*	•			*		

\* = not applicable; UL=useful life; PC=passenger car; LDT=light-duty truck; MDV=medium-duty vehicle; ECS= Emission Control System; STD= Standard; CERT= Certification; LVW=loaded vehicle weight; ALVW=adjusted LVW; LEV=low emission vehicle; TLEV=transitional LEV; ULEV=ultra LEV; SULEV=super ULEV; TWC#3-way catalyst; ADSTWC=adsorbing TWC; WU=warm-up catalyst; OC=oxidizing catalyst; O2S=oxygen sensor; HO2S=heated O2S; AFS/HAFS=air- fuel ratio sensor / heated AFS; EGR=exhaust gas recirculation; AlR=secondary air injection; PAIR=pulsed AIR; MFI= multipor fuel injection; SFI=sequential MFI; TBI=throttle body injection; TC/SC= turbo/super charger; CAC=charge air cooler; OBD (F)/(P)=full/partial on-board diagnostic; DOR=direct ozone reducing; prefix 2=parallel; (2) suffix=series; CNG/LNG= compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85="85%" Ethanol Fuel;

### 2004 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	EVAPORATIVE FAMILY ECS NO.	ENGINE SIZE (L)	IN-I COMPI (*=N/A or A/E=ext	IEDIATE USE LIANCE full in-use; 1. / evap. ate in-use) EVAP	PHASE-IN STD.	OBDII
MAZDA	6	4TKXR0150PPA 1	3	*	*	SFTP	Partial