## California Environmental Protection Agency

**⊘** Air Resources Board

MAZDA MOTOR CORPORATION

Executive Order: A-016-0441

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

Page 1 of 4

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: 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.

					TEST GRO	JP I	NFO	RMATION		<del></del>				
MODE	100	TEST GROUP			VEHICLE CLASS(ES)			FUEL CATEGORY			FUEL TYPE			
201	7 н	HTKXT02.5FBA			LDT2			DEDICATED SINGLE FUEL VEHICLE			GASOLINE			
	USEFU	L LIFE	(miles)		VEHICLE EMISSION CATEGORY				Y INTERIM / INTE			RMEDIATE IN-USE STD		
EXH/ORVR EVAP					FTP			SFTP FTP			SFTP			
150000 150000			150000	CEF	ULEV OPTION RTIFYING TO LEV3 ULEV NMOG+NOX	YING TO LEV 2 SFTP ULEV STANDARD		A STATE OF S	*			* *		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS								OBD STATUS			ENGINE	ENGINE DISPLACEMENT (L)		
1	TWC, WU-TWC, HO2S, WR-HO2S, DFI, CAC, TC, EGR, EGRC						1	FULL ALL MODE		L MODELS				
*	*							PARTIAL		*	2.5			
*	*							ARTIAL WIT	*					
			EV	APORATIVI	& REFUELING	(EV	AP/C	ORVR) FAM	ILY INF	ORMATION		THE STATE OF THE S		
EV	AP/OR	VR FAI	MILY	EVAPORAT	TIVE STD CATE	OR	Υ	Y EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES			
	HTKXR0	135GA	K		LEV 2		LDT2				*			
					EMISSION CF	RED	IT IN	IFORMATIO	N			Haran Haring And		
ALLOWANCE FOR TEST GROUP								NMOG CREDIT FOR NMOG			REDIT FOR OPTIONAL			
BASELINE PZEV AT PZEV						N	NON-PZEV ZERO-EVAP			DO	OOR STD FOR WE			
* * *							N I			N N				
				NN	OG AND FLEET	AV	ERA	GE INFORM	MATION					
NMO0 RAF	" NMOG/NMHC			HCHO/NM RATIO	PC+LDT (	NMOG+NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi)								
*	*		1.04 * 0.0				6	6 0.101 *						

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:

The exhaust and 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+NOx and greenhouse gas Fleet Average (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

MAZDA MOTOR CORPORATION Executive Order: A-016-0441

New Passenger Cars, Light-Duty Trucks and

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Page 2 of 4

## BE IT FURTHER RESOLVED:

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], 1968.2 [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 2015 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures for 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.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

**ATTACHMENT** 

	EX	HAU	ST	AND	EVA	PORAT	IVE EMI	SSION	STAN	IDAR	DS AND	CERTI	FICA	ATION L	EVE	LS		
		Name and Address of the Owner, where	-				NDARDS A					AND DELL PROPERTY	Name and Post					
	FUEL		monox adjustr ORVR			e; NOx: o ent factor g HC/gall	MOG: non oxides of n ; 2DHS/3D on dispens grees Fah	itrogen; H HS [g HC ed]: on-b	ICHO: f (/test]: 2 oard re	formalo 2/3 day fueling	dehyde; Pl /s diurnal- vapor red	M: particu -hot-soak :overy; g:	late n RL [gram	natter; RA g HC/mi]: ; mg: milli	F: rearunnii runnii gram;	activit	:y ss:	
					and the same of th	OG+NOx g/mi)		CO (g/mi)			NOx y/mi)		HCH(	73		1000000		
i isure:	1928				CERT	STE	CER	T ST	STD (		CERT STD		т	STD		Т	STD	
FTP@50	эĸ	*			*	*	*	*		*	*	*	*		*	* *		
FTP@L	GASOLINE - UL TIER 2 UNLEADED			0.046	0.12	25 0.3	3 2.	1	*	*	*		11 *			0.01		
50°F @4	4121	GASOL CA PH			0.025	0.25	50 0.3	3 2.	1	*	*	*		16				
					FUEL TYPE					NMOG+NOx (		Ox (g/mi)	c (g/mi)		CO (g/mi)		i i	
. 2 - 3 -				FUEL TIFE					CERT		STD		CERT		STD			
HWFET @ 50K				*					*		*	*				erio de del Objetos		
HWFET @ UL			GA	GASOLINE - TIER 2 UNLEADED					0.021		0.125		Artest Mountain March 2		tak elek			
20°F	@ 50	K		GA	GASOLINE-COLD CO LOW OCTANE					A MAN TO A TOMORNO TO ELECTRICAL PARTY.		0.7			12.5			
				S	FTP E	XHAUST	EMISSIO	N STAND	ARDS	AND (	CERTIFIC	ATION LI	EVEL	S				
							US06				SC03				/POS	ITE	,	
	FUE	EL TYF	PE	is comme constant visit since	8 00.0	HC+NOx g/mi)	CO (g/mi		PM g/mi)	150000000000000000000000000000000000000	J/mi)	CO (g/mi)	Treatment of	OG+NOx (g/mi)	989		PM (mg/mi)	
@ 4K			OLINE - CER			0.08	6.4	6.4		0.05		0.3						
e	16,860,525		Ī	STD		0.25	10.5	0.50		0	.27	3.5				CO: carb reactivity nning los am; mi: mTP  PM (g/m  CERT *  *  D (g/mi)  S COSITE  CO (g/mi)  *  *  g/mi) @ I		
		ASOLINE -		CERT			*	* *		*				0.065		*	*	
@ UL	T			STD			*									*	*	
				BIN									(	0.120				
			WHO	OLE V	EHICL	E EVAP	DRATIVE	EMISSIO	N STAI	NDARI	OS AND C	CERTIFIC	ATIO	N LEVEL	s			
					WHOLE VEHICLE EVAP				ORATIVE TESTING				Signo		700 UF7			
EVAP F#	ORA \MIL	SCOPENS AND	FUEL		YPE	3DHS (g/test) @ UL		@ UL		2DH	IS (g/test)	@ UL		RL (g/mi) @ UL				
					Maddows	CERT	STD	FEL	CE	RT	STD	FE	<u> </u>	CER	Γ		STD	
HTKX	HTKXR0135GAK		4839968		INE - ASE 2 0.20		0.65	*	19	*	0.85	*	*		0.00		0.05	

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Page 4 of 4

ORVR / FU	EL ONLY / CA	NISTER	BLEED	<b>EVAPORATIVE</b>	EMISSION	STANDA	RDS AND	CERTIFICA	ATION LEV	ELS			
				FUEL ONLY EVAP & CANISTER BLEED									
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE	3DHS RIG TEST (g/test) @ UL			IG TEST ) @ UL	BLEED CANISTER TEST (g/test) @ 4K				
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD			
HTKXR0135GAK	GASOLINE - TIER 2 UNLEADED	0.13	0.20	*	*	*	*	*	*	*			

not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1; LDT<6000#GVWR,0-3750#LVW; LDT2: LDT<6000#GVWR,3751-5750#LVW; LDT3: LDT 6001-8500#GVWR,3751-5750#ALVW; LDT4: LDT 6001-8500#GVWR,5751-8500#ALVW; MDV: medium-duty vehicle; MDV4: MDV 8501-10000#GVWR; MDV5: MDV 10001-14000#GVWR; MDPV: mediumduty passenger vehicle; HDV: heavy-duty vehicle; ECS: emission control system; CERT: certification; STD: standard; FEL: family emission limit; GVWR; gross vehicle weight rating; LVW; loaded vehicle weight; ALVW; adjusted LVW; LEV; low emission vehicle; ULEV: ultra LEV; SULEV: super ULEV; ZEV: zero-emission vehicle; PZEV: partial ZEV; AT PZEV: advanced technology PZEV; TZEV: transitional ZEV; TWC/OC: 3-way/oxidizing catalyst; ADSTWC: adsorbing TWC; HAC: HC adsorbing catalyst; WU: warm-up catalyst; NAC: NOx adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3: selective catalytic reduction-urea/ammonia; NH3OC: ammonia oxidation catalyst; CTOX/PTOX: continuous/periodic trap oxidizer; DPF: diesel particulate filter (active); GPF: PM filter for spark-ignited engine: HO2S/O2S: heated/oxygen sensor; WR-HO2S or AFS; wide range/linear/heated air-fuel ratio sensor; NOXS: NOx sensor; PMS: PM sensor; RDQS: reductant quality sensor; NH3S: ammonia sensor; EGR: exhaust gas recirculation; EGRC: EGR cooler, AIR/AIRE: secondary air injection (belt driven)/(electric driven); PAIR: pulsed AIR, SFI/MFI: sequential/multiport fuel injection; DFI/IFI: direct/indirect fuel injection; TC/SC: turbo/super charger; CAC: charge air cooler; F/P/\$: full/partial/partial with fines on-board diagnostic; DOR: direct ozone reducing; HCT: hydrocarbon trap; BCAN: bleed carbon canister; prefix 2: parallel; (2) suffix: series; CNG/LNG: compressed/liquefied natural gas; LPG: liquefied petroleum gas; E85: "85%" ethanol ("15%"gasoline) fuel; E10: "10%" ethanol ("90%"gasoline) fuel; A: automatic (with lockup); M: manual transmission; SA; semi-automatic transmission; CV; continuously variable transmission; SCV: selectable continuously variable transmission; AM: automated manual transmission; AMS: automated manual-selectable transmission; OT: other transmission

	2017 MODEL YEAR: VEHICLE MODELS INFORMATION											
MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE				
MAZDA	CX-9	LDT2	2.5	SA6	HTKXR0135GAK	1	F	*				