

Pursuant to the authority vested in California 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: 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.

					TEST GRO	UP INFO	RMA	TION					
MOD YEA	, _	TEST GROUP	VEHICLE CLASS(ES)				FUEL CATEGORY			FÜEL TYPE			
201	8 J	TKXT02.2GEA		LDT2			DED	DEDICATED SINGLE FUEL VEHICLE			DIESEL		
	USEFU	L LIFE (miles)		VEHICLE EMISSION CATEO			EGOR	RY	INTERIM / IN	ITER	RMEDIATE IN-USE STD		
EXH/ORVR EVAP				FTP SF			SFTP	FTP FTP			SFTP		
150000 *				LEV3	3 LEV160 LEV 3 CO			DMPOSITE PM			PM		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS							OBD STATUS				ENGINE DISPLACEMENT (L)		
1 WU-OC+NAC, NH3OC, SCRC, DPF, CAC, TC, DFI, EGRC, WR-HO2S, NOXS(2), PMS, EGR, RDQS								LL	*				
*	* *							TIAL	L *		2.2		
*	* *							RTIAL WITH ALL MODELS					
		E	VAPO	RATIVE &	REFUELING	(EVAP/	ORVR)	FAMILY	INFORMATIO	N			
EVAP / ORVR FAMILY EVAPOR					RATIVE STD CATEGORY			EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES		
	*				*			*			*		
					EMISSION CI	REDIT IN	FORM	ATION					
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY				NMOG CREDIT FOR NON-PZEV ZERO-EVAP			V N	NMOG CREDIT FOR DOR			OPTIONAL EXH. STD FOR WORK TRUCKS		
N					N				N	N			
				NMOG	AND FLEET	T AVERA	GE IN	FORMA	TION				
				IO/NMHC RATIO	DC 1 11 10-3750 1 V						NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*	*		*	0	.079			0.092		*		

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 fleet average compliance requirement for NMOG+NOx or Vehicle Equivalent Credit (13 CCR Sections 1961.2(b)(1), 1961.2(b)(3), or 1961.2(c)(3), and the incorporated test procedures, as applicable), or Greenhouse Gas Emissions (13 CCR Section 1961.3, or 17 CCR Section 95663, and the incorporated test procedures, as applicable), for PC, LDT, MDPV or MDV shall be equalized as required.

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 and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for PC, LDT and MDV).

BE IT FURTHER RESOLVED:

The listed vehicle models are conditionally certified in accordance with 13 CCR. Section 1968.2(k) (deficiency and fines provisions for certification of malfunction and diagnostic system) because the on-board diagnostic II (OBD) system of the listed vehicle models have been determined to have three deficiencies. These vehicle models are approved subject to the manufacturer paying a fine of \$25 per vehicle for the third deficiency for vehicles in the listed test group that are produced and delivered for sale in California.

On a quarterly basis, the manufacturer shall submit to the California Air Resources Board reports of the number of vehicles produced and delivered for sale in California and pay the full fine owed for that quarter pursuant to this conditional certification. Payment shall be made payable to the State Treasurer for deposit in the Air Pollution Control Fund no later than thirty (30) days after the end of each calendar quarter during the 2018 model-year production period. Failure to pay the quarterly fine, in full, in the time provided, may be cause for the Executive Officer to rescind this conditional certification, effective from the start of the quarter in question, in which case all vehicles covered under this conditional certification for that quarter and all future quarters would be deemed uncertified and subject to a civil penalty of up to \$37,500 per violation per vehicle pursuant to HSC Section 43154.

BE IT FURTHER RESOLVED:

Per Mazda's request for conditional OBD II approval and conditional Executive Order (EO) approval (Mazda's Request) dated March 27, 2018, the listed vehicle models are certified conditionally on Mazda's completion of OBD II testing and submission of test results to CARB within 180 days after the date of the conditional EO. In addition, Mazda shall submit a running change request within 180 days after the date of the conditional EO for CARB approval for calibration updates described in Mazda's Request and shall implement the running change within four weeks of CARB's approval of the running change request. Mazda shall also submit a voluntary recall plan for CARB's approval to remedy production vehicles that do not have the CARB-approved updated calibrations. Failure to submit the required data, information, running change or voluntary recall plan request by the agreed upon dates, or failure of the submitted data, information, or running change or voluntary recall plan to demonstrate compliance with the emission standards, OBD II requirements, or improved emission control system performance, shall be cause for the Executive Officer to revoke the conditional EO ab initio; vehicles sold or introduced into commerce under the revoked conditional EO shall be deemed uncertified and subject to a civil penalty of up to \$37,500 per violation per vehicle pursuant to HSC Section 43154.

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



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

Executed at El Monte, California on this _

3 day of April 2018.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division

CALIFORNIA AIR RESOURCES BOARD						MAZDA MOTOR CORPORATION			Executive Order: A-016-0450 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 4 of 5								
							A	TTAC	HME	NT							
	EX	HAU	JST	ANDE	VAPO	RATIV	EEMIS	SSION	STAND	ARC	S ANI	CERT	IFIC	ATION	LEVELS	5	
		E	XHA	USTEM	ISSION	STAND	ARDS A	ND CER	TIFICAT	ION L	EVELS	(FTP, HW	FET	, 50°F, 2	0°F)		
				mor adju OR 100	noxide; I Istment VR [g Hi	NOx: oxi factor; 2 C/gallon	des of nit DHS/3DI dispense	trogen; H HS [g HC ed]: on-bo	CHO: fo /test]: 2/	rmalde 3 days leling	ehyde; F s diurnal vapor re	M: particu +hot-soak	ulate ; RL gran	matter; F [g HC/m n; mg: m	HC; CO: c RAF: reacti i]: running illigram; mi cal FTP	vity loss;	
1-5			NMHC+NOx (g/mi)			CO (g/mi)		NOx (g/mi)			HCHO (mg/mi)		PM (g/mi)				
				C	ERT	STD	CERT	T ST	D CI	ERT	STD	CER	T	STD	CERT	STD	
FTP@5	OK		*		*	*	*	*		*	*	*		*	*	*	
		DIESE	L-E	PA 0.	130	0.160	0.5	4.	2	*	*			4	0.000	0.003	
50°F @	4K		*		*	+	*	*		*		*		*		1.11 -1 -1	
			-		E	UEL TY	DE			N	MHC+N	Dx (g/mi)			CO (g/mi)	
						OLLIII				CERT		STD	STD CEF		T STD		
HWFE	T @ 5	OK				*						*					
HWFE	TQU	UL .			DI	ESEL-B	EPA			0.0	086	0.160				100	
20°F	@ 50	ĸ				*								*		*	
	0	-		SET	PEXHA	UST E	MISSION	STAND	ARDSA	ND C	ERTIFIC	ATION LI	EVEL	S			
					SFTP EXHAUST EMISSION S						SC03		COMPOSITE				
	FUE	LTY	PE		NMHC+ (g/m		CO (g/mi)		M I /mi)	NMHC (g/	:+NOx mi)	CO (g/mi)		HC+NO: (g/mi)	c CO (g/mi)	PM (mg/mi	
		*		CERT	*		*					+				-	
@ 4K				STD			*		-			*					
		CE		CERT	*		*	-	0			*	1	0.145	0.5	+	
@ UL	DIES			STD	+		+	1	0	,	•	*		0.097	4.2	*	
	-			BIN	100					-		1		0.180	San S.		
			WHO	OLE VEH	ICLE E	VAPOR	ATIVE E	MISSION	STAND	ARD	S AND C	ERTIFIC	ATIO	N LEVE	LS		
						N	HOLE V	EHICLE	EVAPO	RATI	/E TEST	ING					
EVAPORATIVE FAMILY FUEL		UEL TYP	TYPE 3DHS (g/tr		g/test) @	test) @ UL		2DHS (g/test) @		@ UL	@ UL		RL (g/mi) @ UL				
					CERT STD		STD	FEL	CERT	ERT STD		FEL		CERT		STD	
	*			*		*	*	+	*	-	*	*		*		+	
(ORVR	/ FU	EL C	DNLY / CA	NISTE	R BLEE	DEVAP	ORATIVE	EMISS	ION S	TANDA	RDS AND	CE	RTIFICA	TION LEV	ELS	
							1		FUE	LON	LY EVA	P& CAN	STE	R BLEE)		
EVAPORATIVE FAMILY		ORVR (g/gallon) @ UL			EUE			BDHS RIG TEST (g/test) @ UL		2DHS RIG TE (g/test) @ U							
				EL TYPE	TYPE CERT STD			FUEL TYPE		CERT STD				STD	CERT		
		*			*	*		*	*			*		* *		*	
		I	EFF	ECTIVE	LEAK	DIAME	TER ST	ANDAR	DAND	CER	TIFICA	TION LE	VEL	(INCHE	S)		
EVAF	PORA					AKFAM				CERT					STD		
		*			-	*				*					*		

CALIFORNIA AIR RESOURCES BOARD	MAZDA MOTOR CORPORATION	Executive Order: A-016-0450 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 5 of 5
*: not applicable; #: pounds; UL: useful life; PC: pass LDT<6000#GVWR,3751-5750#LVW; LDT3: LDT 600 8500#ALVW; MDV: medium-duty vehicle; MDV4: MD duty passenger vehicle; HDV: heavy-duty vehicle; EC emission limit; GVWR: gross vehicle weight rating; L' ULEV: ultra LEV; SULEV: super ULEV; ZEV: zero-er ADSTWC: adsorbing TWC; HAC: HC adsorbing cata SCRC/SCR-N or SCRC-NH3: selective catalytic redu continuous/periodic trap oxidizer; DPF: diesel particu heated/oxygen sensor; WR-HO2S or AFS: wide rang RDQS: reductant quality sensor; NH3S: ammonia se secondary air injection (belt driven)/(electric driven); direct/indirect fuel injection; TC/SC: turbo/super char, fines on-board diagnostic; DOR: direct ozone reducir suffix: series; CNG/LNG: compressed/liquefied natur E10: "10%" ethanol ("90%"gasoline) fuel; A: automat continuously variable transmission; SCV: selectable automated manual-selectable transmission; OT: other hybrid electric vehicle	01-8500#GVWR,3751-5750 V 8501-10000#GVWR; MI CS: emission control syster VW: loaded vehicle weight; nission vehicle; TZEV: tran lyst; WU: warm-up catalysi iction-urea/ammonia; NH30 late filter (active); GPF: PM re/linear/heated air-fuel rati nsor; EGR: exhaust gas re PAIR: pulsed AIR; SFI/MFI ger; CAC: charge air coole ng; HCT: hydrocarbon trap; al gas; LPG: liquefied petro ic (with lockup); M: manual continuously variable trans	DV5: MDV 10001-14000#GVWR; MDPV: medium- n; CERT: certification; STD: standard; FEL: family ALVW: adjusted LVW; LEV: low emission vehicle; sitional ZEV; TWC/OC: 3-way/oxidizing catalyst; t; NAC: NOx adsorption catalyst; SCR-U or OC: ammonia oxidation catalyst; CTOX/PTOX: A filter for spark-ignited engine; HO2S/O2S: o sensor; NOXS: NOx sensor; PMS: PM sensor; circulation; EGRC: EGR cooler; AIR/AIRE: : sequential/multiport fuel injection; DFI/IFI: r; FFH: fuel fired heater; F/P/\$; full/partial/partial with BCAN: bleed carbon canister; prefix 2: parallel; (2) bleum gas; E85: "85%" ethanol ("15%"gasoline) fuel; transmission; SA: semi-automatic transmission; CV: mission; AM: automated manual transmission; AMS:

2018 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS.	OBD	
MAZDA	CX-5 2WD	LDT2	2.2	SA6	*	1	\$	
MAZDA	CX-5 4WD	LDT2	2.2	SA6	*	1	\$	