

Executive Order: A-008-0481-1
New Passenger Cars, Light-Duty Trucks and
Medium-Duty Vehicles
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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 GROUP INFORMATION													
MODE	TEST COOLID   VEHICLE CLASS/E						FUEL CATEGORY				FUEL TYPE		
2019	KE	MXV02.0M48		•	PC				SINGLE FUE	-	GASOLINE		
	USEFUL	LIFE (miles)		VEI	HICLE EMISS	ION C	ATE	GORY	INTERIM / II	NTE	RMEDIATE IN-USE STD		
EXH	I/ORVR	EVAP			FTP		SF	TP	FTP		SFTP		
15	0000	15000	כ	LEV3	ULEV125	LEV	3 C	OMPOSITE	PM		PM		
SPE	CIAL FE	ATURES & EX	(HAUS		ON CONTRO	L		OBD S	TATUS		ENGINE DISPLACEMENT (L)		
1	WU-TW	C, TWC, WR-	102S,	HO2S, D	FI, TC, CA	C		FULL	*	71			
*			*	-			F	ARTIAL	ALL MODELS		2.0		
*		* P					PAR	TIAL WITH	*				
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION												
EVA	P / ORV	R FAMILY	EVA	PORATIVI	E STD CATE	GORY		EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES		
K	BMXR01	00F56		L	EV 2			PC			*		
K	BMXR01	30F45	LE	LEV 3 OPTION2 WITH FEL PC			PC			*			
7					EMISSION C	REDIT	INF	ORMATION					
	EDIT FO	X FLEET AVE. R EXTENDED RANTY			REDIT FOR N ZERO-EVAP	ON-P	ZEV	NMOG CREDIT FOR DO		R	OPTIONAL EXH. STD FOR WORK TRUCKS		
-		N			N			-	N		N		
				NMOG	AND FLEET	AVE	RAGI	INFORMA	TION	le .			
NMOG RAF	CH4 RAF	FTP NMOG/NMHO RATIO		HO/NMHC RATIO	DC+1 DT /0-3750			STD NMOG+NOX FLEET ST VW) LDT (3751 LVW-8500 GVWR) + MDPV (g/m					
*	*	1.10		*	0	.072			0.083		*		
		mont for Voh											

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. (As applicable, heavy-duty vehicles (HDV) over 14,000 pounds in GVWR listed in this Executive Order are certified to the requirements in 13 CCR Section 1961.2 applicable to MDV pursuant to 13 CCR Section 1956.8(c)(3) or 13 CCR Section 1956.8(h)(5), as applicable.)



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### 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).

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

This Executive Order hereby supersedes Executive Order A-008-0481 dated March 6, 2018.

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

Executed at El Monte, California on this \_

day of November 2018.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division



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### **ATTACHMENT**

### EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F)

CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: non-CH4 HC; CO: carbon monoxide; NOx: oxides of nitrogen; HCHO: formaldehyde; PM: particulate matter; RAF: reactivity adjustment factor; 2DHS/3DHS [g HC/test]: 2/3 days diurnal+hot-soak; RL [g HC/mi]: running loss; ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: gram; mg: milligram; mi: mile; K: 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: supplemental FTP

### **FUEL TYPE**

		NMOG+NOx (g/mi)		1777		NOx (g/mi)		HCHO (mg/mi)		P <b>M</b> (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	*	*	*	*	*	*	*
FTP@UL	GASOLINE- TIER3 E10	0.053	0.125	0.7	2.1	*	*	*	4	0.001	0.003
50°F @4K	GASOLINE- TIER3 E10	0.090	0.250	1.1	2.1	*	*	*	16	' Y	

	FUEL TYPE	NMOG+N	lOx (g/mi)	CO (g/mi)		
	POLETTIFE	CERT	STD	CERT	STD	
HWFET @ 50K	*	*	*			
HWFET @ UL	GASOLINE-TIER3 E10	0.023	0.125			
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3)			1.6	10.0	

## SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC0:	3	COM	IPOSITE	
	FUEL TYPE		NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	*	CERT	*	*		*	*			
		STD	*	*		*	*		100 0000	
		CERT	*	*	2	*	*	0.046	0.9	*
@ UL	GASOLINE- TIER3 E10	STD	*	*	6	. *	*	0.090	4.2	*
		BIN						0.120		

### WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE \						
EVAPORATIVE FAMILY	FUEL TYPE	3DHS (g/test) @ UL			UL 2DHS (g/test) @ UL			RL (g/n	ni) @ UL
	-	CERT	STD	FEL	CERT	STD	FEL	CERT	STD
KBMXR0100F56	GASOLINE - TIER 2 UNLEADED	0.10	0.50	*	*	0.65	*	0.00	0.05
KBMXR0130F45	GASOLINE- TIER3 E10	0.198	0.300	0.275	0.204	0.300	0.275	0.01	0.05



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ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS												
				FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/g	gallon) @	UL	FUEL TYPE	3DHS R (g/test	IG TEST ) @ UL		IG TEST ) @ UL	BLEED CANIST TEST (g/test) @			
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD		
KBMXR0100F56	GASOLINE - TIER 2 UNLEADED	0.11	0.20	*	*	*	*	*	*	*		
KBMXR0130F45	GASOLINE- TIER3 E10	0.04	0.20	GASOLINE- TIER3 E10	*	*	*	*	0.020	0.020		

EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)

EVAPORATIVE FAMILY

LEAK FAMILY

CERT

STD

KBMXR0130F45

KBMXR0130F45-001

0.01

0.02

: 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; 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; FFH: fuel fired heater; 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; AER: all-electric range; EAER: equivalent AER; PHEV: plug-in hybrid electric vehicle, NMOG + NOx Fleet Ave. Credit for Extended Warranty: N = no credits, Y = credits, S = credits for some/select models

# 2019 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
BMW	X2 M35I	PC	2.0	SA8	KBMXR0130F45	1	P
MINI	JCW COUNTRYMAN ALL4	PC	2.0	M6, SA8	KBMXR0130F45	1	P
MINI	MINI JOHN COOPER WORKS CLUBMAN ALL4	PC	2.0	M6, SA8	KBMXR0130F45	1	P
MINI	MINI JOHN COOPER WORKS CONVERTIBLE	PC	2.0	M6,SA6	KBMXR0100F56	1	P
MINI	MINI JOHN COOPER WORKS HARDTOP	PC	2.0	M6, SA6	KBMXR0100F56	1	P