

Executive Order: A-008-0526

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-19-095;

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.

11036 11	OI WITHOU	Certification	io gire	arricou.									
					TEST GRO	UP IN	IFORI	MATION					
MODE	VEHILLE LLASSIES)						FUEL CATEGORY				FUEL TYPE		
2021	MBI	MXJ04.4SM5		L	OT4, PC		DEDICATED SINGLE FUEL VEHICLE				GASOLINE		
1	JSEFUL	LIFE (miles)		VEH	VEHICLE EMISSION CATEGORY					TE	MEDIATE IN-USE STD		
	/ORVR	EVAP		FTP			ГР	FTP		SFTP			
15	0000	15000	0	LEV3	ULEV125	LEV	3 CO	MPOSITE	*		PM		
SPECIAL FEATURES & EXHAUST EMISSION C						OBD :			STATUS		ENGINE DISPLACEMENT (L)		
1	2WII-TWC 2TWC 2WR-HO2S, 2HO2S, DFI, 2TC,							FULL	*				
*			*				Р	ARTIAL	ALL MODELS		4.4		
*	*						1	RTIAL WITH *					
		E	VAPO	ORATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	INFORMATIO	N			
EVA	P / ORV	R FAMILY	EV	APORATIVE	STD CATE	GORY	VEHICLE CLASS				SPECIAL FEATURES		
M	BMXR01	50G1X	I	EV 3 OPTI	ON2 WITH	FEL		I	PC		*		
M	BMXR01	80G05	I	EV 3 OPTI	ON2 WITH	FEL		LI	T4	*			
					EMISSION C	REDI	INFO	RMATION					
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR EXERO-EVAI						I MIM			REDIT FOR DO	R	OPTIONAL EXH. STD FOR WORK TRUCKS		
N N							N				N		
NMOG AND FLEET AVERAGE INFORMATION													
NMOG RAF	NIMICIGINIVIAL PCTEDI (U-3/				0-375	750 LVW) LD1		MOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)		NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)			
*	*	1.10		*	(	0.058			0.065		*		
											0 / 10 / Di		

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.

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

Executed at El Monte, California on this 2014 day of May 2020.

Allen Lyons, Chief

**Emissions Certification and Compliance Division** 



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## **ATTACHMENT**

# EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

	EXHA					VE EMIS									ELS		
		EXH				DARDS A		THE REAL PROPERTY.		THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	NAME OF TAXABLE PARTY.						
	FUI	EL TY		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													
					G+NOx g/mi)		CO (g/mi)		NOx (g/mi)		HCH (mg/r				PM (g/m	-	
				CERT ST		CERT	CERT STD		CERT STD		CERT		STD CER		RT	STD	
FTP@50	K	*		*	*	*	*		*	*	*		* *			*	
FTP@U	1 1	ASOLINE- IER3 E10 0.05		0.050	0.12	5 0.4	2.1	L	*	*	*		4 0		02	0.003	
50°F @4	WI -	BOLIN ER3 E		0.037	0.25	0 0.2	2.1	L	*	*	*		16				
					FUEL T	YPF			NMOG+NOx (g/m					CO (g/mi)			
									C	CERT STD			CERT		T STD		
HWFET	@ 50K				*					* *							
HWFET @ UL				GAS	GASOLINE-TIER3 E10					0.013 0.125							
20°F (	@ 50K	CC		CO E10 REGULAR GASOLINE (TIER3)									0.8		10.0		
				SFTP E	KHAUST	EMISSION	STANDA	ARDS	AND		ATION LI	VEL					
						+NOx CO PM			SC03			OO NIBB		MPOS	CO PM		
	FUEL	TYPE			NMOG+NOx (g/mi)		PM (mg/mi)		NMOG+NOx (g/mi)		CO (g/mi)	NMOG+NOx (g/mi)		1	/mi)	(mg/mi)	
@ 4K	AK *		* CERT		*	*	*			*	*						
		S			*	*				*	*			-			
		ASOLINE- IER3 E10 S		RT *		*	* 1		*		*	0.038		-0	. 4	*	
@ UL					*	*		6		*	*	0.077		4	.2	*	
			BIN										0.120				
		WI	HOLE	VEHICL	E EVAPO	RATIVE E						ATIC	N LEVEL	.5			
EVAP	ORATIV	/Ε ,	FUEL				HOLE VEHICLE EVAP		2DHS (g/test)				RL (g/m		ni) @	UL	
FA	MILY	Y   FUE			CERT	STD	FEL CE					FEL		CERT		STD	
MBMXF	R0150G	1 2 1	GASOL TIER3		0.319	0.300	0.400		345			.400 0.03		1	0.05		
MBMXF	GASOI				0.184	0.500	0.500 0.500 0.2		226	26 0.500		0.500		0.01		0.05	

TIER3 E10



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ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS													
				FUEL ONLY EVAP & CANISTER BLEED									
EVAPORATIVE FAMILY	ORVR	FUEL TYPE			IG TEST ) @ UL		RIG TEST st) @ UL	BLEED CANISTER TEST (g/test) @ 4K					
	FUEL TYP	PE CERT	STD			CERT	STD	CERT	STD	CERT	STD		
MBMXR0150G1X	GASOLINI TIER3 E:	1 0 04	0.20	GASOLINE- TIER3 E10		*	*	*	*	0.004	0.020		
MBMXR0180G05	GASOLINI TIER3 E	1 0 . 05	0.20	GASOLINE- TIER3 E10		*	*	*	*	0.011	0.020		
	EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)												
EVAPORATIVE FAMILY LEAK FAMIL			LY		CE	CERT			STD				
MBMXR0180G05 MBMXR0180G05			-001 0.01					0.02					
MBMXR0150G1X MBMXR0150G1X			-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: medium duty 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; HP/LP EGR: High/Low Pressure EGR; 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; a hyphen (-) between after treatment ECS indicates multiple functionalities of the after treatment device (ex. DPF-SCRC: SCR coated DPF); 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

### 2021 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
BMW	M5	PC	4.4	SA8	MBMXR0150G1X	1	P
BMW	M5 COMPETITION	PC	4.4	SA8	MBMXR0150G1X	1	P
BMW	M8 COMPETITION CONVERTIBLE	PC	4.4	SA8	MBMXR0150G1X	1	P
BMW	M8 COMPETITION COUPE	PC	4.4	SA8	MBMXR0150G1X	1	P
BMW	M8 COMPETITION GRAN COUPE	PC	4.4	SA8	MBMXR0150G1X	1	P
BMW	M8 CONVERTIBLE	PC	4.4	SA8	MBMXR0150G1X	1	P
BMW	M8 COUPE	PC	4.4	SA8	MBMXR0150G1X	1	P
BMW	M8 GRAN COUPE	PC	4.4	SA8	MBMXR0150G1X	1	P
BMW	X5 M	LDT4	4.4	SA8	MBMXR0180G05	1	P
BMW	X5 M COMPETITION	LDT4	4.4	SA8	MBMXR0180G05	1	P
BMW	X6 M	LDT4	4.4	SA8	MBMXR0180G05	1	P
BMW	X6 M COMPETITION	LDT4	4.4	SA8	MBMXR0180G05	1	P