California Environmental Protection Agency

MAZDA MOTOR CORPORATION

EXECUTIVE ORDER A-016-0407

🖉 Air Resources Board

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 1 of 2

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.

YEAR	TEST GROUP	VEHICLE TYPE	EXHAUST EMISSION STANDARD CATEGORY USEFUL LIFE (miles			5) FUEL TYPE		
2014 ETKXV01.55BA P		Passenger Car	"LEV II" Ultra Low Emission	EXH / EVAP		Gasoline		
2014			Vehicle (LEV II ULEV)	120K	150K	Gasonine		
No.		ECIAL FEATURES	EVAPORATIVE FAM		DISPLACEMENT (L)			
1	WU-TWC, TWC, AFS	S, HO2S, SFI, EGR, OBD(F)	ETKXR0090	Car al				
*		*	*	Auto	1.5			
*		*	a +	and the second sec				

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^o 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 or NMOG+NOx, as applicable, Fleet Average" (PC or LDT or MDPV) 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], 1968.2 [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 Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model PC, LDT and MDV).

BE IT FURTHER RESOLVED:

The test group listed in this Executive Order is certified conditionally on the manufacturer providing data to demonstrate compliance with California's greenhouse gas fleet average emission standard (CA GHG Standard) specified in Title 13, California Code of Regulations, (13 CCR) Section 1961.1 and the incorporated California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles, amended March 29, 2010 (CA Test Procedures). The manufacturer has elected, under 13 CCR Section 1961.1(a)(1)(A)(ii) and under Section E.2.5.1(ii) of the CA Test Procedures, to demonstrate compliance with the CA GHG Standard by demonstrating compliance with the National greenhouse gas program (National GHG Program). Therefore, the test group listed in this Executive Order is certified conditionally further on the manufacturer complying with the requirements specified in said provisions in 13 CCR, and Sections E.2.5.1(ii) and H.4.5(b) and H.4.5(c) of the CA Test Procedures (among other things, concerning data and information submission, timing, and format as specified by the Executive Officer). Failure to comply with the certification requirements to demonstrate compliance with CA GHG Standard by demonstrating compliance with the National GHG Program under said provisions in 13 CCR and CA Test Procedures may be cause for the Executive Officer to revoke the Executive Order. Vehicles in the revoked Executive Order shall be deemed uncertified and subject to penalties authorized under California law. Notwithstanding the requirement herein, a manufacturer that becomes, after MY2009, a large-volume manufacturer, as defined in 13 CCR Section 1900, is not required to comply with the CA GHG Standard until the beginning of the fourth model-year from becoming a large-volume manufacturer. Additionally, notwithstanding the requirement herein, a small-volume manufacturer, independent low-volume manufacturer, or intermediate volume-manufacturer, as defined in 13 CCR Section 1900, is not required to comply with CA GHG Standard during model-years (MY) 2012 through 2015.

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 _____ day of July 2013.

Erik White, Chief Mobile Source Operations Division

California Environmental Protection Agency

OB Air Resources Board

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New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 2 of 2

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.)

@ 50K 0.029 * 0.040 0.3 1.7 0.02 0.05 * 8. * * 0.005 0.0 @ UL 0.043 * 0.055 0.4 2.1 0.02 0.07 * 11. * 0.01 0.01 0.01 @ 50°F & 4K 0.033 * 0.080 0.4 1.7 0.02 0.05 * 16. * * * CO [g/mi] CO [g/mi] CO [g/mi] NMHC*NOx	CERT STD NMMCC [g/m] NMHC [g/m] STD [g/m] Immernite, K=1000 miles, F=redergeses phrammetit; SFTP=supplemental federal test procedure 0.033 0.035 CERT [g/m] STD [g/m] ISTD [g/m] NOX [g/m] HCM (D mg/m] PM [g/m] Hwy Nox CERT 0.030 0.031 0.029 0.040 0.3 1.7 0.02 0.05 8 * * 0.001 0.033 0.043 0.055 0.4 2.1 0.02 0.05 * 8 * * 0.001 0.01	AVERA	FLEET GE [g/mi]	CH4 F	@ RAF=* RAF = *	NMOG or	HCHO=fo	hane; NMOG ormaldehyde;	PM=particu	late matter; I	RAF=read	tivity adju	stment fact	or; 2/3 D [g/te	st]=2/3 day	diurnal+	
0.033 0.035 UCR1 [g/m] UCRT [g/m] CD [g/m] NOX [g/m] HCHO [mg/m] PM [g/m] Hwy NOX [g/m] @ 50K 0.029 * 0.040 0.3 1.7 0.02 0.05 * 8. * 0.005 0.005 0.02 @ 10 0.043 * 0.055 0.4 2.1 0.02 0.07 * 11. * 0.01 0.	0.033 0.035 UCR1 [g/m] CERT [g/m] CERT CERT STD CERT CERT STD CERT STD CERT CERT STD CERT CERT STD CERT	CERT	STD				mi=mile;	K=1000 miles	; F=degree	s Fahrenheit	; SFTP=s	upplemer	tal federal i	test procedure	9 9	am, mg-mm	gram
Long Long Long Long Long CERT STD CO 11. 0.01 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 <th< td=""><td>Lighting Lighting Lighting</td><td colspan="2" rowspan="2"></td><td></td><td></td><td></td><td>CO</td><td>[g/mi]</td><td>NO</td><td>x [g/mi]</td><td>H</td><td colspan="2"></td><td colspan="2"></td><td>Hwy NC</td><td>Dx [g/mi]</td></th<>	Lighting						CO	[g/mi]	NO	x [g/mi]	H					Hwy NC	Dx [g/mi]
@ JUL 0.043 0.040 0.3 1.7 0.02 0.03 0.03 0.003 0.003 0.003 0.003 0.003 0.003 0.001 0.01	Image: Strip (0.043) 0.043 0.055 0.4 2.1 0.02 0.035 0. 0.001 0.003 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.011 0.01 0.011 0.01 0.011 0.01 0.011 0.01 0.011			[g/mi]	[g/mi]	Land	CERT	STD	CERT	STD	CE	RT	STD	CERT	STD	CERT	STE
CO CO<	Image: Second condition 0.033 0.033 0.033 0.034 1.7 0.02 0.03 1.1 0.02 0.01	1	@ 50K	0.029	*	0.040	0.3	1.7	0.02	0.05	1		8.	*	*	0.005	0.0
CO [g/mi] @ 20°F & 50K NMHC+NOx [g/mi] (composite) CO [g/mi] (composite) NMHC+NOx [g/mi] [US06] CO [g/mi] [US06] NMHC+NOx [g/mi] [SC03] CCO [g/mi] [SC03] EERT 1.2 SFTP @ 4000 miles * * * 0.02 0.14 0.8 8.0 0.02 0.20 0.5 2 STD 10.0 SFTP @ * miles *<	CO [g/mi] @ 20°F & 50K NMHC+NOx [g/mi] (composite) CO [g/mi] [g/mi] [US06] NMHC+NOx [US06] CO [g/mi] [g/mi] [SC03] NMHC+NOx [SC0 EERT 1.2 SFTP @ 4000 miles * * 0.02 0.14 0.8 8.0 0.02 0.20 0.5 STD 10.0 SFTP @ * miles *			0.043	*	0.055	0.4	2.1	0.02	0.07			11.	*	0.01	0.01	0.0
CO [g/mi] @ 20°F & 50K (composite) [g/mi] [US06] [US06] [g/mi] [ISC03] [SC03] CERT STD CERT	CO [g/m] @ 20°F & 50K (composite) (g/m] [US06] [UŠ06] [g/m] [SC03] [SČ0 EERT 1.2 SFTP @ 4000 miles * * 0.02 0.14 0.8 8.0 0.02 0.20 0.5 STD 10.0 SFTP @ 4000 miles * * * 0.02 0.14 0.8 8.0 0.02 0.20 0.5 STD 10.0 SFTP @ * miles * <td>The C</td> <td>0 50°F & 4K</td> <td>0.033</td> <td>*</td> <td>0.080</td> <td>0.4</td> <td>1.7</td> <td>0.02</td> <td>0.05</td> <td></td> <td></td> <td>16.</td> <td>*</td> <td>*</td> <td>*</td> <td>*</td>	The C	0 50°F & 4K	0.033	*	0.080	0.4	1.7	0.02	0.05			16.	*	*	*	*
CERT SID CE	CERT STD CE	co	[g/mi]														
STD 10.0 SFTP @* miles *	STD 1.2 SFIP @ 4000 miles 0.02 0.14 0.0 0.02<	@ 20°F	& 50K	4		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STE
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EITXR00900BR 0.44 0.50 0.55 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.62 0.6 0.6 0.6 0.6 0.6 0.6 0.6	EITXR00900BR 0.44 0.50 0.55 0.5				CERT	ST	D	CERT	S	TD	CER	Т	STD		CERT		STD
In the second		ET	KXR0090G	ЗК					0		0.00						
enot applicable; UL=useful life; PC=passenger car; LDT=light-duty truck; LDT1=LDT≤6000#GVWR,0-3750#LVW; LDT2=LDT≤6000#GVWR,3751-5750#ALVW; LDT4=LDT 6001-8500#GVWR,5751-8500#ALVW; LDT2=LDT≤6000#GVWR,3751-5750#ALVW; LDT4=LDT 6001-8500#GVWR,5751-8500#ALVW; MDV=medium-duty vehicle; MDV4=MDV 8501- 0000#GVWR; MDV5=MDV 10001-14000#GVWR; ECS= emission control system; STD= standard; CERT= certification; LVW=loaded vehicle weight; ALVW=adjusted LVW; LEV=low emission vehicle; ULEV=ultra LEV; SULEV=super ULEV; TWC/OC=3-way/oxidizing catalyst; ADSTWC=adsorbing TWC; VU=warm-up catalyst; NAC=NOx adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3= selective catalytic reduction-urea/ammonia; NH3OC=ammo ixidation catalyst; CTOX/PTOX= continuous/periodic trap oxidizer; DPF = Diesel Particulate Filter (active); HO2S/O2S=heated/oxygen sensor; WR-HO2S or AFS=Wide range/linear/heated air-fuel ratio sensor; NOXS= NOx sensor; RDQS=reductant quality sensor; NH3S = Ammonia sensor; EGR=exhaust gas ecirculation; EGRC=EGR cooler; AIR/AIRE=secondary air injection (belt driven)/(electric driven); PAIR=pulsed AIR; SFI/MFI= sequential/ multiport fuel njection; DFI=direct fuel injection; TC/SC= turbo/super charger; CAC=charge air cooler; OBD (F)/(P)(B)=full/partial/both on-board diagnostic; DOR=direct	* *		*														
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zone reducing, no remydrocarbon i rad, boan-dieed carbon canister, drefix zedaraliel, (z) suffixeseries. Ung/Lnge compressed/liduefied natural das,	zone reducing; HCT=Hydrocarbon Trap; BCAN=bleed carbon canister; prefix 2=parallel; (2) suffix=series; CNG/LNG= compressed/liquefied natural ga	DT3=LD 0000#G ¹ LVW=ac /U=warn xidation FS=Wid ecirculati jection;	T 6001-850 VWR; MDV djusted LVW n-up catalysi catalyst; CT le range/line on; EGRC=1 DFI=direct fit	D#GVWR,3 =MDV 100 ; LEV=low ; NAC=NO OX/PTOX= ar/heated a EGR cooler uel injectior	751-5750#/ 01-14000#0 emission ver- x adsorption continuous ir-fuel ratio r; AIR/AIRE a; TC/SC= t	LVW; LDT SVWR; EC: hicle; ULE catalyst; S /periodic tra sensor; NC =secondary urbo/super	4=LDT 6 S= emiss V=ultra L CR-U or ap oxidize DXS= NO air inject charger;	5001-8500# sion control EV; SULEY r SCRC/SC ar; DPF = D bx sensor; I tion (belt dr CAC=char	GVWR,5 system; V=super L R-N or S Diesel Par RDQS=re riven)/(ele ge air coo	751-8500# STD= stan JLEV; TW CRC-NH3 ticulate Fil ductant qu octric drive oler; OBD	#ALVW; dard; Cl C/OC=3 = select lter (actin ality ser n); PAIF (F)/(P)(1	MDV=r ERT= cd -way/ox tive cata ve); HO nsor; NH R=pulsed B)=full/p	nedium-d ertification idizing ca llytic redu 2S/O2S= I3S = Am d AIR; SF partial/bot	uty vehicle n; LVW=loa talyst; ADS ction-urea/ heated/oxy monia sens I/MFI= seq h on-board	; MDV4=N aded vehic STWC=ad ammonia; gen senso sor; EGR= uential/ m diagnosti	MDV 8501- cle weight; sorbing TW NH3OC=a or; WR-HO exhaust ga ultiport fue c; DOR=di	VC; ammon 2S or as l irect

MAKE	MODEL	EVAPORATIVE FAMILY	ECS NO.	ENGINE SIZE (L)	VEHICLE	SPECIAL FEATURES	OBD
MAZDA	MAZDA2	ETKXR0090GBK	1	1.5	PC	*	Full