

MAZDA MOTOR CORPORATION

EXECUTIVE ORDER A-016-0380

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

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.

MODEL YEAR			EXHAUST EMISSION STANDARD CATEGORY	USEFU (mil		COMP (*=N/A or A/E=exi	IEDIATE JSE LIANCE full in-use; 1. / evap. ate in-use)	FUEL TYPE	
2012		No. 1	"LEV II" Ultra Low	EXH / ORVR	EVAP	EXH	EVAP	Gasoline	
	CTKXV01.55BA	Passenger Car	Emission Vehicle (LEV II ULEV)	120K	120K 150K		•		
No. ECS & SPECIAL FEATURES 1 WU-TWC, TWC, AFS, HO2S, SFI, EGR, OBD(P)			EVAPORATIVE	EVAPORATIVE FAMILY (EVAF)					
			CTKXR0						
*		•			1.5				
*			*						

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° 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 Fleet Average" (PC or LDT) 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 24 day of August 2011.

Annette Hebert, Chief

Mobile Source Operations Division



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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.)

AVERAGE [g/mi]				NWOG OF InCHO-formaldenyde; PM-particulate matter: RAF=reactivity adjustment factor: 2/3 D [o/test]=2									day diumal+		
STD	NMOG	NMHC			NMHC	not-soak; K	L [g/mi]=run	ning loss; OR	VR [g/gallor	dispensed =	on-board ref	ueling vapor n	ecovery, and	ram; mg =milli	gram
0.035	45.7550 7.6		1,000,000,000	CO	g/mi]							Hwy NO	x [a/mi]		
0.000	[g/mi]	[g/mi]	151	CERT	STD	CERT	STD	CERT	STD	CERT	STD		STD		
@ 50K	0.029	*	0.040	0.3	1.7	0.02	0.05	•	8.				0.07		
@ UL	0.043	*	0.055	0.4	2.1	0.02	0.07	*	11.	*	0.01	1,555,555	0.09		
@ 50°F & 4K	0.033	*	0.080	0.4	1.7	0.02	0.05	*	16.	*	*	*	*		
	AGE [g/mi] STD 0.035 @ 50K	AGE [g/mi] CH4 R STD NMOG CERT [g/mi] @ 50K 0.029 @ UL 0.043	AGE [g/mi] CH4 RAF = * STD NMOG NMHC CERT CERT [g/mi] [g/mi] @ 50K 0.029 * @ UL 0.043 *	AGE [g/mi] CH4 RAF = * NMOG or NMHC STD CERT [g/mi] [g/mi] [g/mi] [g/mi] [g/mi] [g/mi]	AGE [g/mi] CH4 RAF = * NMOG or NMHC STD NMOG CERT CERT [g/mi] [g/mi] [g/mi] (CERT CERT GM) (CERT CERT GM) (CERT CERT GM) (CERT CERT CERT GM) (CERT CERT CERT CERT CERT CERT CERT CERT	AGE [g/mi] CH4 RAF = * NMOG or NMHC STD NMOG CERT CERT CIRT [g/mi] CH4 RAF STD NMHC STD (g/mi] (g/mi] CERT CERT CO [g/mi] CERT STD CERT CE	AGE [g/mi] CH4 RAF = * NMOG or NMHC STD NMOG CERT CERT [g/mi] [g/mi] [g/mi] NOx CERT STD CERT CERT GM CERT CO [g/mi] NOx CERT STD CERT CO [g/mi] NOx CERT STD CERT CO [g/mi] NOx CO [g/mi] NOX CO [g/mi] NOX C	AGE [g/mi]	AGE [g/mi] CH4 RAF = * NMOG or STD NMOG CERT CERT CERT CERT [g/mi] Row [g/mi] CH4 RAF = * NMOG or NMHC CERT CERT	AGE [g/mi] CH4 RAF = * NMOG or STD NMOG or NMHC CERT G/mi] STD NMOG CERT G/mi] G/mi]	AGE [g/mi] CH4 RAF = * NMOG or NMHC STD NMOG CERT CERT CERT G/mi] G/mi]	AGE [g/mi] CH4 RAF = * NMOG or STD NMOG or NMHC CERT G/mi] NMOG or NMHC CERT G/mi] STD NMOG OF NMHC CERT G/mi] G/mi] G/mi] STD MMOG OF NMHC CERT G/mi] G	AGE [g/mi] CH4 RAF = * NMOG or NMHC STD NMOG CERT STD NMOG CERT STD NMOG CERT STD NMOG CERT STD ST		

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]		CO [g/mi] [SC03]	
@ 20	F & 50K		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
CERT	1.2	SFTP @ 4000 miles		•		*	0.02	0.14	0.8	8.0	0.02	0.20	0.5	2.7
STD	10.0	SFTP @ * miles	*	*					*	*	*	*	*	*

Evaporative Family	3-Days Diurnal + Hot Soak (grams/test) @ UL		2-Days Diurnal + Hot Soak (grams/test) @ UL		Running Loss (grams/mile) @ UL		On-Board Refueling Vapor Recovery (grams/gallon) @ U		
	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
CTKXR0090GBK	0.44	0.50	*	0.65	0.00	0.05	0.02	0.20	
*		•				*	*	*	
*	*	*	*	*		*			
•			*		*				

* = not applicable; UL=useful life; PC=passenger car; LDT=light-duty truck; MDV=medium-duty vehicle; 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; WU=warm-up catalyst; NAC=NOx adsorption catalyst; SCR-U/SCR-N= selective catalytic reduction-urea/ammonia; NH3OC=SCR-U/SCR-N ammonia slip catalyst; CTOX/PTOX= continuous/periodic trap oxidizer; HO2S/O2S=heated/oxygen sensor; HO2S=heated O2S; AFS/HAFS=air- fuel ratio sensor / heated AFS; NOXS= NOx sensor; RDQS=reductant quality sensor; EGR=exhaust gas recirculation; AIR=secondary air injection; PAIR=pulsed AIR; SFI/MFI= sequentia/ multiport fuel injection; 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 ozone reducing; prefix 2=parallel; (2) suffix=series; CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85="85%" Ethanol ("15%" gasoline) Fuel;

2012 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	EVAPORATIVE FAMILY	ECS NO.	ENGINE SIZE (L)	IN- COMP (*=N/A or A/E=ex	MEDIATE USE LIANCE full in-use; h. / evap. ate in-use)	PHASE-IN STD.	OBD
					EXH	EVAP		
MAZDA	MAZDA2	CTKXR0090GBK	1	1.5	*	*	SFTP	Parti