California Environmental Protection Agency

⊘ Air Resources Board

KIA MOTORS CORPORATION Executive Order: A-314-0226

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

Page 1 of 4

Pursuant to the authority vested in the 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: 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												
MOD		TEST	GROUP	P VEHICLE CLASS(ES)				FUEL C	ATEGORY	F	FUEL TYPE		
201	.6	GKMX	702.0DCE			PC			SINGLE FUEL	G	GASOLINE		
	USE	FUL LI	FE (miles)		VEHI	CLE EMISS	ION CATE	GORY	INTERIM / IN	ITERMEDIA	TE IN-USE STD		
EX	H/OR	VR	EVAF	>	F	TP	S	FTP	FTP		SFTP		
1	.2000	0	15000	00	LEV2	ULEV		2 SFTP NDARD			*		
SP	ECIAL	. FEAT		XHAUS 'STEMS		N CONTRO	L	OBD ST	TATUS	ENGINE	DISPLACEMENT (L)		
1			DFI,	TWC,	HO2S(2)			FULL	ALL MODELS				
*	*							PARTIAL * 2.0					
*				*			PA	PARTIAL WITH * FINES					
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION												
EV	AP/C	RVR F	AMILY	EVA	PORATIVE	STD CATE	BORY	EVAP EMIS VEHICLE		SPECIA	AL FEATURES		
	GKMX	R0128	1GE		LE	V 2		PC *					
					El	MISSION C	REDIT INF	ORMATION					
BAS	SELINI	ALL(OR TE	ST GROUP	TZEV	1			REDIT FOR OR	OPTIONAL EXH. STD FOR WORK TRUCKS		
	*			*		*		N		N	N		
					NMOG	AND FLEET	AVERAC	E INFORMAT	TION				
NMO	NMOG RAF CH4 RAF FTP NMOG/NMHC RATIO HCHO/NMHC			HC RATIO	RATIO NMOG+NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi)		LDT (NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)					
	*	,		1.	04	1	k		0.093		0.110		

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.

California Environmental Protection Agency

⊘ Air Resources Board

KIA MOTORS CORPORATION Executive Order: A-314-0226

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

Page 2 of 4

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 NMOG+NOx and greenhouse gas Fleet Average (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan 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).

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

Executed at El Monte, California on this 28 day of January 2015.

Annette Hebert, Chief

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

Emissions Compliance, Automotive Regulations and Science Division

⊘ Air Resources Board

KIA MOTORS CORPORATION Executive Order: A-314-0226

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

Page 3 of 4

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

NMOG CO NOX HCHO PM (g/mi) (g/mi) (g/mi) (g/mi)

1000		NMOG (g/mi)		CO (g/mi)		NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	GASOLINE - TIER 2 UNLEADED	0.0212	0.040	0.34	1.7	0.024	0.05	*	8	*	*
FTP@UL	GASOLINE - TIER 2 UNLEADED	0.0290	0.055	0.55	2.1	0.031	0.07		11	*	0.01
50°F @4K	GASOLINE - TIER 2 UNLEADED	0.0192	0.080	0.14	1.7	0.015	0.05	*	16	(v====0)33	

	FUEL TYPE	NOx	(g/mi)	CO (g/mi)		
	FUEL TYPE	CERT	STD	CERT	STD	
HWFET @ 50K	GASOLINE - TIER 2 UNLEADED	0.010	0.07			
HWFET @ UL	GASOLINE - TIER 2 UNLEADED	0.017	0.09			
20°F @ 50K	GASOLINE-COLD CO LOW OCTANE			0.7	10.0	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC0:	3	COMPOSITE			
	FUEL TYPE		NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMHC+NOx (g/mi)	CO (g/mi)	NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	
	GASOLINE -	CERT	0.021	1.01		0.039	0.14		生态	4000	
@ 4K	TIER 2 UNLEADED	STD	0.14	8.0		0.20	2.7				
	ON DEED	CERT	*	*	*	*	*	*	*	*	
@ UL	*	STD	*	*	*	*	*	*	*	. *	
		BIN						*		477-1	

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

	EVADORATIVE			WHOLE \	RL (g/mi) @ UL					
	EVAPORATIVE FAMILY	FUEL TYPE	3DHS (g/test) @ UL			2DH	HS (g/test) (KE (g/illi) @ OE		
	177,000		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
	GKMXR01281GE	GASOLINE-CA PHASE 2	0.3491	0.50	*	0.2183	0.65	*	0.009	0.05

ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

				FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE	3DHS Ri (g/test)		2DHS R (g/test	-	BLEED CANISTER TEST (g/test) @ 4K			
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD		
GKMXR01281GE	GASOLINE - TIER 2 UNLEADED	0.004	0.20	*	*	*	*	*	*	*		

KIA MOTORS CORPORATION Executive Order: A-314-0226

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

Page 4 of 4

: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: .DT<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; 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; PZEV; partial ZEV; AT PZEV; advanced technology PZEV; 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 sparkignited 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; F/P/\$: full/partial/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

2016 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
HYUNDAI	ELANTRA GT	PC	2.0	M	GKMXR01281GE	1	F	*
HYUNDAI	ELANTRA GT	PC	2.0	SA6	GKMXR01281GE	1	F	*

