California Environmental Protection Agency	KARMA AUTOMOTIVE	Executive Order: A-431-0001 New Passenger Cars, Light-Duty Trucks and
Ø≣ Air Resources Board	LLC	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 GROU	JP IN	IFOR	MATION	٧							
MODEL		ST GI	ROUP	VEHICLE CLASS(ES)					FU	EL C	ATEC	GORY		FUE	EL TYPE		
2017	нк	ALV02	.OLEV				PLUG-IN HYBRID ELECTRIC VEHICLE				GASOLINE						
USEFUL LIFE (miles) VEHICLE EMISSI									CATEGORY INTERIM / IN					ERMEDIATE IN-USE STD			
EXH	/ORVR		EVAP	1	F	ТР	FTP FTP				SFTP						
120000 150000					LEV	2 LEV			2 SFTP NDARD	THE PARTY OF		*		*			
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS									OBD STATUS			IS	ENGINE DISPLACEMENT (L)				
1	1 DFI, TWC, WR-HO2S, HO2S, TC, CAC								FULL	*							
*	*								PARTIA	L		*	2.0				
*	*							PA	RTIAL W FINES	/ІТН	ALI	ALL MODELS					
			EV	APORA	TIVE &	REFUELING	(EVA	P/O	RVR) FA	MILY	INF	ORMATION					
EVA	P / ORV	RFAN	AILY	EVAPO	RATIVE	STD CATEG	ORY	(N STD ASS	SPE	CIAL	FEATURES		
Н	KALR00	80LEV	7		LI	EV 2		PC *					*				
					E	MISSION CR	EDIT	T INF	ORMAT	ION	1						
	A	LLOW	ANCE FO	R TEST	GROUI	9			IMOG CREDITFOR NMOG CREDITFOR				OPTIONAL EXH. STD FOR WORK				
BASE	LINE P	ZEV	AT	PZEV	TZEV			JN-P	N-PZEV ZERO-EVAP			DOR		TRUCKS			
	*			*		*		а	N			1	N N				
					NMOG	AND FLEET	AVE	RAC	GE INFO	RMA'	TION						
NMOG RAF				HCHO/ RAT		NMOG+NOX FLEET PC+LDT (0-3750 LV (g/mi)					LVW-8500			(10001-14000			
*	*		1.04	*	ŧ	0	.125				0	.125			*		

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:

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

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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).

BE IT FURTHER RESOLVED:

The listed vehicle models are conditionally certified in accordance with 13 CCR Section 1968.2(k) (deficiency and fines provisions for certification of malfunction and diagnostic system) because the on-board diagnostic II (OBD) system of the listed vehicle models has been determined to have seven deficiencies. The listed vehicle models are approved subject to the manufacturer paying a fine of \$150 for the third through seventh deficiencies in the listed test group that is produced and delivered for sale in California.

On a quarterly basis, the manufacturer shall submit to the Air Resources Board reports of the number of vehicles produced and delivered for sale in California and pay the full fine owed for that quarter pursuant to this conditional certification. Payment shall be made payable to the State Treasurer for deposit in the Air Pollution Control Fund no later than thirty (30) days after the end of each calendar quarter during the 2017 model-year production period. Failure to pay the quarterly fine, in full, in the time provided, may be cause for the Executive Officer to rescind this conditional certification, effective from the start of the quarter in question, in which case all vehicles covered under this conditional certification for that quarter and all future quarters would be deemed uncertified and subject to a civil penalty of up to \$5000 per vehicle pursuant to HSC Section 43154.

BE IT FURTHER RESOLVED:

The listed vehicle models have been certified on the condition that the manufacturer provide all the on-board diagnostic data required by 13 CCR Section 1968.2(i)(2.4) within 90 days from the date of the Executive Order. Failure to submit the required demonstration data by the specified date, or failure of the submitted demonstration data to show compliance with the test procedures, shall be cause for the Air Resources Board to revoke this Executive Order and vehicles sold under the revoked conditional certification shall be deemed uncertified.

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 January 2017.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division

California Environmental Protection Agency **O** Air Resources Board

KARMA AUTOMOTIVE LLC

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							A	TTAC	СНМ	IENT										
	EX	HAU	IST	AND	EVA	PORAT	IVE EMI	SSION	STA	NDAR	DS A	ND	CERTI	FICA	TION	LEVE	LS			
		E	хна	UST	EMISSI	ON STAN	DARDS A	AND CEP	RTIFIC	ATION	LEVE	LS (F	TP, HWI	FET,	50°F, 20	°F)				
		FUEL	TYF	r a () 1	nonoxid idjustme DRVR [g	e; NOx: o ent factor HC/gallo	MOG: non oxides of n ; 2DHS/3E on dispens grees Fah	itrogen; I HS [g H sed]: on-t	HCHO: C/test]: board r	formalo 2/3 day efueling	dehyd /s diur vapo	e; PM mal+h r reco	: particu ot-soak; very; g:	late n RL [g gram;	natter; R g HC/miː ; mg: mil	AF: re : runni ligram	activi ng lo	ty ss;		
						MOG g/mi)		CO (g/mi)			NOx g/mi)		1 1	HCH(mg/m			PM (g/n			
	1			F	CERT	STE	CEF	T S	TD	CERT			CER			CERT		STD		
FTP@50	ж	TIE UNLE	ASOLINE - TIER 2 UNLEADED		0.0498	8 0.07	75 0.9	8 3	. 4	0.028	0	0.05 *			15			*		
FTP@U		GASOL TIE UNLE	R 2		0.0572	0.09	90 1.1	6 4	. 2	0.037	0	.07	*	18		18 0		0.00	55	0.01
50°F @4		GASOI TIE UNLE	IR 2		0.113	5 0.15	50 0.8	7 3	. 4	0.023	0	.05	*		30	ない				
1											NOx (g/mi)			co			g/mi)			
					FUEL TYPE				С	ERT STD			CERT			STD				
HWFET @ 50K GASOL					ASOLIN	NE - TIER 2 UNLEADED				0	.006		0.07	時からたた						
HWFE	т@	UL		G	ASOLIN	NE - TIER 2 UNLEADED				0	0.015 0.0		0.09	.09				112.16		
20°F	@ 50	ж		GA	SOLINE	E-COLD CO HIGH OCTANE								1.21				10.0		
					SFTP E	XHAUST	EMISSIO	N STAN	DARD	SAND	CERT	IFICA	TION LE	EVEL	S					
					1		US06			Τ	S	Ç03			CC	MPO	SITE			
	FU	JEL TYPE			NMHC+NOx (g/mi)			CO PM (g/mi) (mg/mi)			NMHC+NOx (g/mi)				OG+NOx CC (g/mi) (g/n		CO /mi)	PM (mg/mi)		
@ 4K	- T	OLINI IER 2 ILEADI	2	CER	r o	.0367	3.58	3		0.	0996		1.60) 						
0			ST			0.14	8.0	15 10	単大時間	0	0.20		2.7	2.2						
				CER		*	*		*		*		*		*		*	*		
@ UL		*		STD		*	*		*		*		*		*		*	*		
				BIN	_						112	42 2		*						
			WH	OLE	/EHICL	E EVAPO	DRATIVE		-					ATIO	N LEVE	LS	_			
EVAP			F	UEL	TYPE	3DH	S (g/test)		EEVA		2DHS (g/test)						UL			
						CERT	STD	FEL					FE	L	CERT		STE			
HKALI	R008	OLEV		ASOLI TIEF UNLEF	2	0.321	0.50	*		.224		65	*		0.025			0.05		

Ø Air R	ronmental Prot				KARMA AUTOMOTIVE LLC KARMA AUTOMOTIVE LLC KARMA AUTOMOTIVE LLC Kardium-Duty Ver Page 4						
ORVR / FUI	EL ONLY / CA	NISTER	BLEED	EVAPORATIVE						ELS	
EVAPORATIVE FAMILY	ORVR (g/g	ORVR (g/gallon) @ UL FUEL TYPE			FUEL O 3DHS RI (g/test)	G TEST		TER BLEE IG TEST) @ UL	D BLEED CANISTER TEST (g/test) @ 4K		
	FUEL TYPE	CERT	STD		CERT	CERT STD		CERT STD		STD	
HKALR0080LEV	GASOLINE - CA PHASE 2	0.014	0.20	*	*	*	*	*	*	*	
8500#ALVW; MDV duty passenger ve emission limit; GV	hicle; HDV: he NR: gross veh	avy-duty icle weig	vehicle;	ECS: emission of LVW: loaded ve	control syste hicle weigh	em; CERT: it; ALVW: a	certificatio	n; STD: sta	indard; FEL		

2017 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
KARMA	REVERO	PC	2.0	A1	HKALR0080LEV	1	\$	*