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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.

					TEST GRO	UP IN	IFOR	MATION					
MODE YEAR	- I TI	TEST CONTROL VEHICLE CLASSIES						FUEL CATEGORY			FUEL TYPE		
2022	NF	NFJXJ02.5BUY LDT1, LDT2, PC						DEDICATED SINGLE FUEL VEHICLE			GASOLINE		
Ţ	USEFUL	. LIFE (miles)	•	VEH	IICLE EMISS	ION C	ATE	GORY	INTERIM / IN	TERN	ERMEDIATE IN-USE STD		
EXH	/ORVR	EVAP			FTP		SF	TP	FTP		SFTP		
15	0000	150000)	LEV3	SULEV30	LEV	3 C	OMPOSITE	*		PM		
SPE	CIAL FE	ATURES & EX	HAU:		ON CONTRO	L		OBD S	STATUS	EN	NGINE DISPLACEMENT (L)		
1	TWC (2), WR-HO2S	, но	2S, DFI,	EGR, EGRC			FULL	*				
*			*				Р	PARTIAL	ALL MODELS		2.0, 2.5		
*	*						l .	TIAL WITH	*				
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION												
EVA	P / ORV	R FAMILY	EVA	APORATIVE	STD CATE	GORY	,	EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES		
N	IFJXR01	155AD	L	EV 3 OPT	ON2 WITH FEL				PC		HCT		
N	IFJXR01	435DB	L	EV 3 OPT	ION2 WITH FEL				PC		HCT		
N	IFJXR01	545GE	L	EV 3 OPT	ON2 WITH	FEL		LDT1			HCT		
				ı	EMISSION CI	REDIT	INFO	ORMATION					
	EDIT FO	X FLEET AVE. OR EXTENDED RRANTY			REDIT FOR N ZERO-EVAP	ON-P	ZEV	NMOG (REDIT FOR DO		OPTIONAL EXH. STD FOR WORK TRUCKS		
		N			N				N		N		
				NMOG	AND FLEET	AVE	RAGI	E INFORMA	ATION				
NMOG RAF	CH4 RAF	FTP NMOG/NMHO RATIO	НС	HO/NMHC RATIO	NMOG+NOX FLEET PC+LDT (0-3750 L' (g/mi))	MOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*	1.10		0.014	0	.051			0.056		*		

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.

This Executive Order hereby supersedes Executive Order A-002-0245-1 dated March 19, 2021.

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

Executed on this <u>3rd</u> day of July 2021.

Allen Lyons, Chief

Emissions Certification and Compliance Division

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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

FUEL TYPE

		NMOG+NOx (g/mi)				NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	*	*	*	*	*	*	*
FTP@UL	GASOLINE- LEV3 E10	0.0166	0.030	0.49	1.0	*	*	0.1	4	0.0013	0.003
50°F @4K	GASOLINE- LEV3 E10	0.0200	0.060	0.05	1.0	*	*	0.1	8		

		FUEL TYPE	NMOG+N	Ox (g/mi)	CO (g/mi)		
		FUELTIFE	CERT	STD	CERT	STD	
н	WFET @ 50K	*	*	*			
Н	WFET @ UL	GASOLINE-LEV3 E10	0.0023	0.030			
:	20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3)			0.95	10.0	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

			US06			SC03	3	COMPOSITE		
	FUEL TYPE		NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	*	CERT	*	*		*	*			
		STD	*	*		*	*			
		CERT	*	*	1.4	*	*	0.0129	1.38	*
@ UL	GASOLINE- LEV3 E10	STD	*	*	6	*	*	0.070	4.2	*
		BIN						0.050		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE \						
EVAPORATIVE FAMILY	FUEL TYPE	3DH	S (g/test) @	D UL	2DI	HS (g/test) (RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
NFJXR01155AD	GASOLINE- LEV3 E10	0.2532	0.300	0.300	0.1852	0.300	0.300	0.000	0.05
NFJXR01435DB	GASOLINE- LEV3 E10	0.1934	0.300	0.300	0.1706	0.300	0.300	0.000	0.05
NFJXR01545GE	GASOLINE- LEV3 E10	0.2412	0.300	0.300	0.2202	0.300	0.300	0.000	0.05



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ORVR / FU	EL ONLY / C	ANISTER	BLEED	EVAPOR	RATIVE	EMISSION	STANDA	RDS AND	CERTIFIC	ATION LEV	ELS		
					FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE		3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTE TEST (g/test) @ 4			
	FUEL TYP	CERT	CERT STD				STD	CERT	STD	CERT	STD		
NFJXR01155AD	GASOLINE TIER3 E1	10 009	0.20	GASOLINE- LEV3 E10		*	*	*	*	0.0148	0.020		
NFJXR01435DB	GASOLINE TIER3 E1	10 005	0.20	GASOLINE- LEV3 E10		*	*	*	*	0.0182	0.020		
NFJXR01545GE	GASOLINE TIER3 E1	10 005	0.20	GASOLINE- LEV3 E10		*	*	*	*	0.0136	0.020		
	EFFECTIVE	LEAK D	IAMET	ER STA	NDAR	D AND CE	RTIFICA	TION LE	VEL (INCH	IES)			
EVAPORATIVE	FAMILY	LEA	K FAMII	LY	_Y CERT					STD			
NFJXR01545GE NFJXR01545GE			-5GE		k	+		0.02					
NFJXR0143	35DB	NFJXR0	1435DB	3-5DB *				0.02					
NFJXR01155AD NFJXR01155AD-					-5AD * 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: mediumduty 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

2022 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
SUBARU	CROSSTREK	LDT1	2.5	scv8	NFJXR01545GE	1	P
SUBARU	CROSSTREK	LDT1	2.0	CV1,M6,SCV8	NFJXR01545GE	1	P
SUBARU	FORESTER	LDT2	2.5	scv7	NFJXR01545GE	1	P
SUBARU	FORESTER WILDERNESS	LDT2	2.5	SCV8	NFJXR01545GE	1	P
SUBARU	IMPREZA 4-DOOR	PC	2.0	CV1,M5,SCV7	NFJXR01155AD	1	P
SUBARU	IMPREZA 4-DOOR SPORT	PC	2.0	scv7	NFJXR01155AD	1	P
SUBARU	IMPREZA 5-DOOR	PC	2.0	CV1,M5,SCV7	NFJXR01155AD	1	P
SUBARU	IMPREZA 5-DOOR SPORT	PC	2.0	M5,SCV7	NFJXR01155AD	1	P
SUBARU	LEGACY	PC	2.5	scv8	NFJXR01435DB	1	P
SUBARU	OUTBACK	LDT2	2.5	scv8	NFJXR01435DB	1	P