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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-180 Relating to Certification of New Motor Vehicles

ISUZU MOTORS LIMITED

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 2000 model-year Isuzu Motors, Ltd. exhaust emission control systems are certified as described below for light-duty trucks:

Exhaust Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family:YSZXT03.52GKDisplacement:3.2 Liters(193 Cubic Inches)3.5 Liters(213 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Sequential Multiport Fuel Injection Exhaust Gas Recirculation Dual Three Way Catalytic Converters Dual Heated Oxygen Sensors (two)

Vehicle models, transmissions, engine codes, and evaporative emission control families are listed on attachments.

The TLEV certification exhaust emission standards for this engine family in grams per mile are (Title 13, California Code of Regulations, Section 1960.1):

Loaded Vehicle <u>Weight (lb)</u> 3751-5750	<u>Miles</u> 50,000	Non-Methane <u>Organic Gases</u> 0.160 0.200	Carbon <u>Monoxide</u> 4.4 5.5	Nitrogen <u>Oxides</u> 0.7 0.9	<u>Formaldehyde</u> 0.018 0.023	Carbon <u>Monoxide (20°F)</u> 12.5 n/a
	100,000	0.200	5.5	0.9	0.025	

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for non-methane organic gases (NMOG) reflect application of a 0.98-RAF for 2000 model-year TLEVs. The certification exhaust emission values for this engine family in grams per mile are:

Loaded Vehicle <u>Weight (lb)</u> 3751-5750	<u>Miles</u> 50,000	Non-Methane <u>Organic Gases</u> 0.087 0.092	Carbon <u>Monoxide</u> 1.7 1.9	Nitrogen <u>Oxides</u> 0.3 0.3	<u>Formaldehyde</u> 0.0002 0.0002	Carbon <u>Monoxide (20°F)</u> 10.1 n/a
	100.000	0.092	1.3	V.J	0.0002	

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleetaverage NMOG exhaust mass emission requirements set forth in Title 13, California Code of Regulations, Section 1960.1 ("California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles.")

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet-average compliance-plan, if the manufacturer incurs an NMOG debit for the aforementioned model-year based on the projected NMOG fleet-average exceeding the value required by the above-referenced standards and test procedures, all NMOG debits incurred by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle-manufacturer is certifying the listed vehicle models to the running-loss and useful-life standards applicable to 1995 and subsequent model-year vehicles in "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles;" and that the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill-Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned modelyear (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed models also comply with the Board's high-altitude requirements and highway emission standards, and with the Inspection and Maintenance standards in place at the time of certification as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent-Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Motor Vehicle Emission Control and Smog-Index Label Specifications" for the aforementioned model-year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the Vehicross vehicle model also complies with the "Malfunctionand Diagnostic-System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the manufacturer is certifying the Passport, Amigo, and Rodeo vehicle models with a partially complying on-board diagnostic system for the aforementioned model-year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.2) ("Malfunction- and Diagnostic-System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification-compliance with the Board's emission-control system warranty-provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the vehicle-manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent-Model Passengers Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

ISUZU MOTORS LIMITED

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

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this _____ day of August 1999.

R. B. Summerfield, Chief -Mobile Source Operations Division

17.07.00-1

E.O. # _____A- 20- 180

2000 MODEL - YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT - DUTY TRUCKS AND MEDIUM - DUTY VEHICLES

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Manufacturer : ISUZU MOTORS LIMITED Exh Eng Fam : YSZXT03.52GK Evap. Fam : YSZXT0095ME0 All Engine Codes in Engine Family : CA 49S 50S x AB965
Fuel Type(s): Dedicated Flex-Fuel Dual-Fuel Bi-Fuel Gasoline_x Diesel
Fuel Type(s): Dedicated Flex-Fuel Blan Bed Bit tot Cher (specify) CNG LNG LPG M85 Other (specify)
CNGLNGLPGNNGCILE(Specify)
Exh. Emiss Test Fuel(s): IndoCBG_xCNGLPGM85Other (specify) Diesel: 13 CCR 228240 CFR 86.113-9040 CFR 86.113-94
Evenerative Emission Test Procedure California Federal X
Oracity And AMA W Mod AMA Mfr ADP Other (Specify)
NMOG Test Procedure : N/A Std x Equiv R/L lest Proc. SHED Produce
Engine Configuration : V6 Displacement : <u>3.5</u> / Liters <u>213</u> / Cubic inches
Valve per Cylinder : 4 Rated HP : 215 @ 5400 RPM
Engine : Front x Mid Rear Drive : FWD RWD_X 4WD-F1 4WD-P1_X
Exhaust ECS (e.g., MFI, EGR, TC, CAC) :SFI, EGR, 2TWC, 2HO2S (2)
(use abbreviations per SAE J1930 JUN 93)

Engine Code	Vehicle Models	Trans.	ETW	DPA	lgnition	EGR	Catalytic
(also list	(if coded see	(M5, A4	or	or	(ECM/PCM)	System	Converter
CA/49ST/50ST)	attachment)	etc.	Test Wt.	RLHP	Part No.	Part No.	Part No.
352G- 4	AN - S4	A4	4250	14.1	PCM 8093755991	8170961782	TWC 8253145870

AN - S1 : VehiCROSS, Short Wheelbase

Issue Date : May 28, 1999

17.07.00-2

2000 MODEL - YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT - DUTY TRUCKS AND MEDIUM - DUTY VEHICLES

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Manufacturer : _ISUZU MOTORS LIMITED							
Engine : Front Exhaust ECS (e.g	<u>x</u> MID ., MFI, EGR, TC, C	Rear (AC) : ∞	(SFI, EGR, 2	TWC, 2HO2S	(2)	
			(use a	bbreviation	s per SAE J193	0 JUN 93)	
Engine Code (also list CA/49ST/50ST)	Vehicle Models (if coded see attachment)	Trans. (M5, A4 etc.	ETW or Test Wt.	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
352G- 5	XM - R1B YM - R1B XM - R1C YM - R1D	 M5	4250	15.5	8093852290	8170961782	TWC 8253145871
	XM - S1C YM - S1C		4500			:	
	XM - R1C: XM - S1C: YM - R1D: YM - S1C:	RODEO HONDA	2WD, Long 4WD, Long PASSPOR PASSPOR	Wheelbase 7 2WD, Lor	e, P245 tire e, P245 tire ng Wheelbase, I ng Wheelbase, I	P225 tire P245 tire	

00LDT/00rvb000

17.07.00-3

E.O. # _A-20-180

2000 MODEL - YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT - DUTY TRUCKS AND MEDIUM - DUTY VEHICLES

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All Engine Codes Exh. Std : CA Veh Class(es) :	SUZU MOTORS LI in Engine Family : Tier- 1	CA4 VxL LDT 2 amN/A	49S5 .EV _ <u>x</u> MDV (specify	ULEV /1MI :N/A, LD	SULEV; SULEV; SV2MDV T1. MDV1, MDV	US EPA '3 MDV4 /2, MDV3, MD'	NLEV MDV5 V4)	
Fuel type(s):	NGLNG			M85	Other (specify	1)		
L. F. J. F. F. Task F	tual/a\) Inda	CRC V	CNG	IPG	M85	Other (specily)		
Exh. Emiss Test r		13 CCR 22	82	40 CFR	86.113-90	40 CF	R 86.113-94	
Exn. Emiss Test Fuel(s) Indo CBG ONC Indo 40 CFR 86.113-90 Diesel : 13 CCR 2282 40 CFR 86.113-90 40 CFR 86.113-94 Evaporative Emission Test Procedure : California Federalx Service Accum : Std AMA Mod AMA Mfr ADP Other (specify)								
NMOC Test Bree	oduzo NI/A	x hts	Fauiv	R/I	_ Test Proc : 🗧	SHED	Pl Sourcex	
Faring Configurat	ion : <u>V6</u> D)isnlacemen	t 32	/ Lit	ers 19	93 / C	ubic inches	
Malun mar Culinday	., A		Rated HP	205	<u>m</u> 540	U	171.141	
Valve per Cylinder	: <u>4</u> <u>x Mid</u>	Rear	Drive F	WD	RWD x	4WD-FT	4WD-PT <u>x</u>	
Engine Front	., MFI, EGR, TC, C		211101	SFL EGR. 2	2TWC, 2HO2S	(2)		
Exhaust ECS (e.g					s per SAE J193			
Engine Code	Vehicle Models	Trans.	ETW	DPA	Ignition	EGR	Catalytic	
	(if coded see	(M5, A4	or	or	(ECM/PCM)	System		
CA/49ST/50ST)		etc.	Test Wt.	RLHP	Part No.	Part No.	Part No.	
1							I i	

352G- 5	WM - S3C	M5	4250	15.5	PCM 8093852290	8170961782	TWC 8253145871	
							L	Į

WM - S3C : AMIGO 4WD, Short Wheelbase, Soft Top, P245 tire

Issue Date : May 28, 1999

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