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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

Displacement: 3.2 Liters (193 Cubic Inches) Engine Family: YSZXT03.52GK

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):

Weight (lb) Miles 3751-5750 50,000 100,000	Non-Methane Organic Gases 0.160 0.200	Carbon <u>Monoxide</u> 4.4 5.5	Nitrogen Oxides 0.7 0.9	Formaldehyde 0.018 0.023	Carbon <u>Monoxide (20°F)</u> 12.5 n/a
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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 Weight (lb) 3751-5750	<u>Miles</u> 50,000 100,000	Non-Methane Organic Gases 0.087 0.092	Carbon Monoxide 1.7 1.9	Nitrogen Oxides 0.3 0.3	Formaldehyde 0.0002 0.0002	Carbon Monoxide (20°F) 10.1 n/a
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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 fleet-average 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 model-year (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."

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

E.O.# <u>A- 20- 180</u>

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

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14	SUZU MOTORS LI	MITED E	exh Eng Fan	n: YSZXT	03.52GK Ev	ap. Fam : <u>YSZ</u>	XT0095ME0
Manufacturer	in Engine Family :	CA 4	498 5	ios x A	AB965, O	RVR: Yes	No <u>x</u>
All Engine Codes	Tier-1 TLE		EV	ULEV	SULEV;	US EPA	NLEV <u>x</u>
Mak Class(ss):	DC 10T1	1DT 2	x MD\	/1 ME	V2 MDV	3 MDV4.	
Signal Cert Std for	, Multi_Class Fng F	am N/A	(specify	: N/A. LD]] , MUVI, MUV	72, MDV3, MDV	'4)
Fuel Type(s):	Dedicated F	iex-Fuel	Dual-Fu	uel B	i-Fuel G	asoline <u>x</u>	Diesel
		LP	G I	M85	Other (specify)	
Evh Emiss Tost F	uel(s): Indo		CNG	LPG	M85	Other (specify)_	
EXII. EIIIISS TESCT	Diesel	13 CCR 22		_	86.113-90	40 CFI	R 86.113- 94
Evaporative Emiss	sion Test Procedure		nia	Federa			
Evahorative Fullor	Std AMAx_				Other (specify)		
	edure: N/A		 Equiv	R/I	Test Proc: S		Pt Source <u>x</u>
Engine Configurat		Displacemen	it: 3.5	Lit	ers <u>2</u>	<u> </u>	ubic inches
Valve per Cylinder			Rated HP				RPM
Engine: Front_		Rear	Drive: F	WD		4WD-FT	4WD-PT <u>x</u>
Evhaust ECS (e.g.	., MFI, EGR, TC, C			SFI, EGR, 2	2TWC, 2H02\$	(2)	
EXHIBITE EOO (C.9		,	(use a	abbreviation	s per SAE J193	0 JUN 93)	
							 1
Engine Code	Vehicle Models	Trans.	ETW	DPA	Ignition	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.
CAV493173031)	Bitterini	0.0.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
		1				•••••	TAIC
0500 4	ANI CA	A4	4250	14.1	PCM	8170961782	TWC
352G- 4	AN - S4	Α-7	7200	1-4,1	8093755991		8253145870
		1					
	<u></u>	<u> </u>		L			
	AN - S1 ·	VehiCRO	OSS Short V	Wheelbase			
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Issue Date: May 28, 1999

E.O. # <u>A- 20- 180</u>

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 i Exh. Std: CA Veh Class(es): I Signal Cert Std for Fuel Type(s): C Exh. Emiss Test F Evaporative Emiss	CNG LNG_ Fuel(s): Indo Diesel:	CA A /_ X	BS	JS_X_	SULEV; SULEV; V2 MDV 1, MDV1, MDV i-Fuel G Other (specify	US EPA3 MDV4_ /2, MDV3, MDV asolinex) Other (specify)40 CFI	NLEV_x MDV5 4) Diesel R 86.113- 94
Valve per Cylinder	ion: <u>V6</u> D :: <u>4</u> x Mid, MFI, EGR, TC, C	isplacemen Rear	Rated HP Drive: F	_/ Lit :205_ WD SFI. EGR. 2	ers	0 F 4WD-FT (2) 0 JUN 93)	RPM 4WD-PT_x
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 XM - R1C: RODEO 2WD, Long Wheelbase, P245 tire XM - S1C: RODEO 4WD, Long Wheelbase, P245 tire YM - R1D: HONDA PASSPORT 2WD, Long Wheelbase, P225 tire YM - S1C: HONDA PASSPORT 4WD, Long Wheelbase, P245 tire							

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All Engine Codes in Exh. Std: CA Veh Class(es): Signal Cert Std for Fuel Type(s): Code in Exh. Emiss Test For Evaporative Emiss Service Accum: NMOG Test Proce Engine Configuration Valve per Cylinder Engine: Front Exh. State Code in Exh. Emiss Test For Exporative Engine Configuration of Exh. Emiss Test For Exporative Engine: Front Exh. State Code in Exh. Exh. Exh. Exh. Exh. Exh. Exh. Exh.	CNG LNG_ Fuel(s): Indo Diesel: sion Test Procedure Std AMAx edure: N/A tion:V6 D	CAL VXL LDT 2_ am:N/A iex-FuelLP CBGX 13 CCR 22 e: Califor Mod AMA StdX Displacemen	#9S 5 EV MD\ (specify Dual-Fu G I CNG 82 nia Mfr A Equiv t: 3.2 Rated HP Drive: F	ULEV	SULEV; SULEV; V2 MDV T1, MDV1, MDV Si-Fuel G Other (specify M85 86.113-90 alx Other (specify) L Test Proc: Sers19	US EPA	NLEV_x MDV5
Engine Code	Vehicle Models	Trans.	ETW	DPA	Ignition	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- 5	WM - S3C	M5	4250	15.5	PCM 8093852290	8170961782	TWC 8253145871
	WM - S3C	: AMIGO	4WD, Shor	t Wheelbas	e, Soft Top, P24	\$5 tire	
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