State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-182
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: YSZXT02.22HK Displacement: 2.2 Liters (134 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 Weight (lb)	Miles	Non-Methane Organic Gases	Carbon Monoxide	Nitrogen Oxides	Formaldehyde	Carbon Monoxide (20°F)
3751-5750	50,000	0.160	4.4	0.7	0.018	12.5
	100,000	0.200	5.5	0.9	0.023	n/a

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)	Miles	Non-Methane Organic Gases	Carbon Monoxide	Nitrogen Oxides	Formaldehyde	Carbon Monoxide (20°F)
3751-5750	50,000	0.088	1.6	0.3	0.0001	7.9
	100,000	0.097	1.8	0.4	0.0001	n/a

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 listed vehicle model also comply with "Malfunction- and 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 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 4th day of August 1999.

John Konaldi for

R. B. Summerfield, Chief
Mobile Source Operations Division

E.O. # A- 20- 182

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

Manufacturer : ISUZU MOTORS LIMITED Exh Eng Fam : YSZXT02.22HK Evap. Fam : YSZXT0095ME0
All Engine Codes in Engine Family : CA___ 49S___ 50S_x_ AB965___, ORVR : Yes___ No_x_
Exh. Std : CA Tier- 1___ TLEV_x_ LEV___ ULEV___ SULEV___ ; US EPA___ NLEV_x_
Veh Class(es) : PC___ LDT 1___ LDT 2_x_ MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
Signal Cert Std for Multi-Class Eng Fam : N/A (specify : N/A, LDT1, MDV1, MDV2, MDV3, MDV4)
Fuel Type(s) : Dedicated___ Flex-Fuel___ Dual-Fuel___ Bi-Fuel___ Gasoline_x_ Diesel___
CNG___ LNG___ LPG___ M85___ Other (specify)___
Exh. Emiss Test Fuel(s) : Indo___ CBG_x_ CNG___ LPG___ M85___ Other (specify)___
Diesel : 13 CCR 2282___ 40 CFR 86.113- 90___ 40 CFR 86.113- 94___
Evaporative Emission Test Procedure : California___ Federal_x_
Service Accum : Std AMA_x_ Mod AMA___ Mfr ADP___ Other (specify)___
NMOG Test Procedure : N/A___ Std_x_ Equiv___ R/L Test Proc : SHED___ Pt Source_x_
Engine Configuration : L4 Displacement : 2.2 / ___ Liters 134 / ___ Cubic inches
Valve per Cylinder : 4 Rated HP : 130 @ 5200 RPM
Engine : Front_x_ Mid___ Rear___ Drive : FWD___ RWD_x_ 4WD-FT___ 4WD-PT___
Exhaust ECS (e.g., MFI, EGR, TC, CAC) : SFI, EGR, 2TWC, 2HO2S (2)
(use abbreviations per SAE J1930 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.
222H- 1	XO- R1D	M5	4000	14.5	ECM 8093617390	25180481	TWC 8251655950

XO-R1D : RODEO 2WD, Long Wheelbase, P225 tire

Issue Date : May 28, 1999

E.O. # A- 20- 182

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Manufacturer : ISUZU MOTORS LIMITED Exh Eng Fam : YSZXT02.22HK Evap. Fam : YSZXT0095PE0
All Engine Codes in Engine Family : CA___ 49S___ 50S_x_ AB965___, ORVR : Yes___ No_x_
Exh. Std : CA Tier- 1___ TLEV_x_ LEV___ ULEV___ SULEV___ ; US EPA___ NLEV_x_
Veh Class(es) : PC___ LDT 1___ LDT 2_x_ MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
Signal Cert Std for Multi-Class Eng Fam : N/A (specify : N/A, LDT1, MDV1, MDV2, MDV3, MDV4)
Fuel Type(s) : Dedicated___ Flex-Fuel___ Dual-Fuel___ Bi-Fuel___ Gasoline_x_ Diesel___
CNG___ LNG___ LPG___ M85___ Other (specify)___
Exh. Emiss Test Fuel(s) : Indo___ CBG_x_ CNG___ LPG___ M85___ Other (specify)___
Diesel : 13 CCR 2282___ 40 CFR 86.113- 90___ 40 CFR 86.113- 94___
Evaporative Emission Test Procedure : California___ Federal_x_
Service Accum : Std AMA_x_ Mod AMA___ Mfr ADP___ Other (specify)___
NMOG Test Procedure : N/A___ Std_x_ Equiv___ R/L Test Proc : SHED___ Pt Source_x_
Engine Configuration : L4 Displacement : 2.2 / Liters 134 / Cubic inches
Valve per Cylinder : 4 Rated HP : 130 @ 5200 RPM
Engine : Front_x_ Mid___ Rear___ Drive : FWD___ RWD_x_ 4WD-FT___ 4WD-PT___
Exhaust ECS (e.g., MFI, EGR, TC, CAC) : SFI, EGR, 2TWC, 2HO2S (2)
(use abbreviations per SAE J1930 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.
222H- 1 (50ST)	WO- R2C WO- R3C	M5	3875	14.7	ECM 8093617390	25180481	TWC 8251655950

WO- R2C : AMIGO 2WD, Short Wheelbase, Resin Top, P245 tire
WO- R3C : AMIGO 2WD, Short Wheelbase, Soft Top, P245 tire

Issue Date : May 28, 1999