State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-173
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 1999 model-year Isuzu Motors Limited exhaust emission control systems are certified as described below for light-duty trucks:

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

Fuel Type: Gasoline

Engine Family: XSZXT02.22HK Displacement: 2.2 Liters (134 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

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

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

The non-methane organic gas (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) TLEV certification exhaust emission standards for this engine family in grams per mile are:

Loaded Vehicle Weight (lbs.)	Miles	NMOG	CO	NOx	HCHO	CO (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 NMOG reflect application of a 0.98 RAF for 1999 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

Loaded Vehicle Weight (lbs.)	Miles	NMOG	CO	NOx	HCHO	CO (20°F)
3751-5750	50,000	0.106	2.0	0.3	0.0002	9.6
	100,000	0.118	2.4	0.4	0.0003	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 as set forth 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 under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a 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 incurred NMOG debits 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 the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and 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 vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission 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 the "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 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 Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

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 listed vehicle models also comply with the "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.

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 6th day of July 1998.

R. B. Summerfield, Chief
Mobile Source Operations Division

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1999 MODEL - YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT - DUTY TRUCKS AND MEDIUM - DUTY VEHICLES

Manufacturer : ISUZU MOTORS LIMITED Exh Eng Fam : XSZXT02.22HK Evap. Fam : XSZXT0095ME0
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 X 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 x
Exhaust ECS (e.g., MFI, EGR, TC, CAC) : SFI, TWC, EGR, HO2S (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- 2 (50ST)	XO - R1A XO - R1B XO - R1C	M5	3750	13.6	ECM 8093617390	25180481	TWC 8251655950

XO - R1A : RODEO 2WD, Long Wheelbase, P215 tire
XO - R1B : RODEO 2WD, Long Wheelbase, P235 tire
XO - R1C : RODEO 2WD, Long Wheelbase, P245 tire

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PASSENGER CARS, LIGHT - DUTY TRUCKS AND MEDIUM - DUTY VEHICLES

Manufacturer : ISUZU MOTORS LIMITED Exh Eng Fam : XSZXT02.22HK Evap. Fam : XSZXT0095PE0
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 X 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 x
Exhaust ECS (e.g., MFI, EGR, TC, CAC) : SFI, TWC, EGR, HO2S (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 - S3B WO - S3C	M5	3875	14.5	ECM 8093617390	25180481	TWC 8251655950

WO - S3B : AMIGO 4WD, Short Wheelbase, P235 tire
WO - S3C : AMIGO 4WD, Short Wheelbase, P245 tire