State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-148 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 1996 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: TSZ3.22JGKGK Displacement: 3.2 Liters (193 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Dual Three Way Catalytic Converters Dual 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.)	<u>Miles</u>	NMOG	<u>co</u>	<u>N0x</u>	НСНО_	<u>CO (20⁰F)</u>
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 1996 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

Loaded Vehicle Weight (lbs.)	Miles	<u>NMOG</u>	<u></u>	<u>NOx</u>	НСНО	<u>CO (20°F)</u>
3751-5750	50,000	0.082	0.8	0.2	0.000 (0.0001) 10.3
	100,000	0.086	0.9	0.2	0.000 (0.0002) 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 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 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 the manufacturer is certifying the listed 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)(6.1) ("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.).

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 2 day of November 1995.

CR. B. Summerfield Assistant Division Chief Mobile Source Division

E.O. # A-20-148

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Page $\underline{1}$ of $\underline{1}$

Manufacturer:	ISUZU MOTO	RS LIMITED	_ Exh	Engine	Family:	TSZ3.22J	GKGK
Evap Std: 50K	Useful Li	fe with R/L _	<u>X</u> Evap	Engine	e Family:	TSZ1089A	YMEO
Exh Std: Tier-	0 Tier-1	TLEV <u>X</u> LEV	ULEV_	ZEV_	; EPA	Tier-OT	ier-1 <u>X</u>
Veh Class(es)	: PC LDT1	LDT2_X	MDV1	MDV2	MDV3_	MDV4	MDV5
Single Cert St	d for Multi-Clas	ss Eng Fam: _	N/A (spe	cify:	N/A, LDT1,	MDV1, MDV2,	MDV3, MDV4)
Exh Cert Fuel(s): Indo Phi	2 <u>X</u> Diesel:	13 CCR 2	282	or 40 CFR	86.113-90_	_ or -94
	M85 CN	GLPG	Other (s	pecify)		
Fuel Type(s):	Dedicated <u>X</u> F	lex-Fuel	Dual-Fuel		Gasoli	ne <u>X</u> Diese	1 M85
	CNGLNG	LPGOthe	r (specif	y)			
Hybrid: Type A	BC,	APU Cycle (e.	g., Otto,	Diese	l, Turbine)	
Engine Configu	ration: <u>V6</u>	Displacemen	t: <u>3.2 /</u>		Liters _	193 / C	ubic Inches
Engine: Front	<u>X</u> Mid	Rear	Drive:	FWD	RWD_X_	4WD-FT	4WD-PT <u>X</u>
Exhaust ECS (e	g., EGR, MFI, T	C, CAC):		SFI,	EGR, 2TWC	; 2H02S(2)	CEDO1
			(use	abbrev	iations pe	er SAE 01930	SEPSI)
(also list	Vehicle Models (if coded see attachment)	A-automatic	or	DPA	(ECM/PCM)	EGR System Part No.	Converter
322KG-1 (50ST)	XK-R1 YK-R1 XK-R1H YK-R1H	A	4250	14.6	PCM 8162338691 8162338690 8162440790 8162652390 8162662190	01 00 8170961780	TWC 8971019573 8971019592
	XK-S1 YK-S1 XK-S1H YK-S1H		4500			0	
Vehicle Model	XK-R1H; ROD XK-S1; ROD XK-S1H; ROD YK-R1; HON YK-R1H; HON YK-S1; HON	EO 2WD, P225 EO 2WD, P245 EO 4WD, P225 EO 4WD, P245 DA PASSPORT 2 DA PASSPORT 2 DA PASSPORT 4	tire tire tire PWD, P225 PWD, P245	tire tire			

Date Issued: 96B-04

Revisons: 96B-06 96B-AC-02 96B-AC-03