State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-146-1 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 Isuzu Motors Limited 1996 model-year exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

Engine Family: TSZ3.22JGKFK <u>Displacement</u>: 3.2 Liters (193 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Dual Heated Oxygen Sensors 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 certification exhaust emission standards for this engine family in grams per mile are:

Loaded Vehicle	<u>Miles</u>	Non-Methane	Carbon	Nitrogen	Carbon
<u>Weight (lbs.)</u>		Hydrocarbons	<u>Monoxide</u>	Oxides	<u>Monoxide (20⁰F)</u>
3751-5750	50,000	0.32	4.4	0.7	12.5
	100,000	0.40	5.5	0.97	n/a

The certification exhaust emission values for this engine family in grams per mile are:

Loaded Vehicle	<u>Miles</u>	Non-Methane	Carbon	Nitrogen	Carbon
Weight (1bs.)		<u>Hydrocarbons</u>	<u>Monoxide</u>	_ <u>Oxides</u> _	<u>Monoxide (20⁰F)</u>
3751-5750	50,000	0.22	1.5	0.3	9.5
	100,000	0.26	1.7	0.34	n/a

ISUZU MOTORS LIMITED

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 non-methane organic gas (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 50,000-mile evaporative emission standards applicable to 1980 through 1994 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, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

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 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"). ISUZU MOTORS LIMITED

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.

Executive Order A-20-146 dated September 11, 1995, is superseded and replaced by Executive Order A-20-146-1.

Executed at El Monte, California this Zr day of November 1995.

R. B. Summerfield Assistant Division Chief Mobile Source Division

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E.O. # A-20-146-/

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES Page 1 of 1

anulationer:	ISUZU MOTO	IRS LIMITED	_ Exh	Engine	Family : _	TSZ3.220	IGKFK
	X Useful Li						
Exh Std: Tier-	-0 Tier-1_X_	TLEVLEV	ULEV_	ZEV	; EPA T	ier-0 1	ier-1 <u>X</u>
	: PCLDT1						
	td for Multi-Cla						
Exh Cert Fuel	(s): Indo <u>X</u> Ph	2 Diesel:	13 CCR 2	282	or 40 CFR	86.113-90	_ or -94
		IGLPG					
Fuel Type(s):	Dedicated X F	lex-Fuel	Dual-Fuel		Gasolin	e <u>X</u> Diese	e1M85
	CNG LNG						
Hybrid: Type /	ABC,	APU Cycle (e.	g., Otto,	Diese	l, Turbine)		
	uration: V6						
Engine: Fron [.]	tX Mid	Rear	Drive:	100			_ יי=טאיי _
Engine: Fron [.] Exhaust ECS (e	t <u>X</u> Mid eg., EGR, MFI, T	Rear TC, CAC):	Drive:	SFI, E	GR, 2H02S,	TWC, H02S(2	
Engine: Fron [.] Exhaust ECS (6	t <u>X</u> Mid eg., EGR, MFI, T	Rear TC, CAC):	(use	SFI, E abbrev	GR, 2HO2S, Tations per	TWC, HO2S(2 SAE J1930	2) SEP91)
Exhaust ECS (0	eg., EGR, MFI, T	TC, CAC):	(use ETW	SFI, E abbrev	GR, 2H02S, Tations per	TWC, HO2S(2 SAE J1930	2) SEP91)
Exhaust ECS (6 Engine Code (also list	eg., EGR, MFI, T Vehicle Models (if coded see	C, CAC): Trans. Type A-automatic	(use ETW or	SFI, E abbrev	GR, 2H02S, Tations per	TWC, HO2S(2 SAE J1930	2) SEP91)
Exhaust ECS (6 Engine Code (also list	eg., EGR, MFI, T Vehicle Models	C, CAC): Trans. Type A-automatic	(use ETW or	SFI, E abbrev	GR, 2H02S, lations per	TWC, HO2S(2 SAE J1930	2) SEP91)
Exhaust ECS (6 Engine Code (also list	eg., EGR, MFI, T Vehicle Models (if coded see	C, CAC): Trans. Type A-automatic	(use ETW or Test WT	SFI, E abbrev DPA	GR, 2HO2S, iations per Ignition (ECM/PCM) Part No.	TWC, HO2S(2 SAE J1930 EGR System Part No.	2) SEP91)
Exhaust ECS (6 Engine Code (also list CA/49ST/50ST)	eg., EGR, MFI, T Vehicle Models (if coded see attachment) UK-S1	C, CAC): Trans. Type A-automatic	(use ETW or Test WT	SFI, E abbrev DPA	GR, 2HO2S, iations per Ignition (ECM/PCM) Part No.	TWC, HO2S(2 SAE J1930 EGR System Part No.	2) SEP91) Catalytic Converter Part No.
Exhaust ECS (6 Engine Code (also list CA/49ST/50ST) 322KF-1	eg., EGR, MFI, T Vehicle Models (if coded see attachment)	Trans. Type A-automatic M-manual	(use ETW or Test WT	SFI, E abbrev DPA	GR, 2H02S, iations per Ignition (ECM/PCM) Part No. PCM 8162152091	TWC, HO2S(2 SAE J1930 EGR System Part No. 817096-	2) SEP91) Catalytic Converter Part No. TWC
Exhaust ECS (6 Engine Code (also list CA/49ST/50ST)	eg., EGR, MFI, T Vehicle Models (if coded see attachment) UK-S1 UK-S3	C, CAC): Trans. Type A-automatic	(use ETW or Test WT 4500	SFI, E abbrev DPA 15.5	GR, 2H02S, iations per Ignition (ECM/PCM) Part No. PCM 8162152091 8162152093 8162152093	TWC, HO2S(2 SAE J1930 EGR System Part No. 817096- 1780	2) SEP91) Catalytic Converter Part No. TWC
Exhaust ECS (6 Engine Code (also list CA/49ST/50ST) 322KF-1	eg., EGR, MFI, T Vehicle Models (if coded see attachment) UK-S1	Trans. Type A-automatic M-manual	(use ETW or Test WT 4500	SFI, E abbrev DPA 15.5	GR, 2H02S, iations per Ignition (ECM/PCM) Part No. PCM 8162152091 8162152093 8162152093	TWC, HO2S(2 SAE J1930 EGR System Part No. 817096- 1780	2) SEP91) Catalytic Converter Part No. TWC

UK-S1; TROOPER 4WD, Long Wheelbase UK-S3; TROOPER 4WD, Short Wheelbase ZK-S1; ACURA SLX 4WD, Long Wheelbase nicie Modei

Date Issued: 96B-02

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