State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-76 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 Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1989 model-year isuzu Motors Limited exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displacement <u>Liters (Cubic inches)</u>		Exhaust Emission Control Systems (Special Features)		
KSZ138V5FCA8	2.3	(138)	Exhaust Gas Recirculation Oxygen Sensor		
			Three-Way Catalyst (Sequential Fuel Injection)		

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

The following are the emission standards for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
(Grams per Mile)	(Grams per Mile)	(Grams per Mile)
0.41	7.0	0.7

The following are the certification emission values for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
(Grams per Mile)	(Grams per Mile)	(Grams per Mile)
0.27	3.2	0.2

BE IT FURTHER RESOLVED: That the listed models are certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying to the optional NOx standard by providing evidence that there are sufficient projected sales of vehicles certifying to the primary NOx emission standard, or is allowed a delay in implementation under small volume manufacturer provisions, or is allowed a delay in implementation under the "in lieu" standards, or is certifying passenger cars weighing more than 5250 lbs. loaded vehicle weight.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered 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" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards 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 Tune-tip Label Specifications" (Title 13, California Administrative Code, Section 1985) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compliance with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Administrative Code, Section 1968) 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 regulations (Title 13, California Administrative Code, Section 2035 et seq.) and with the 2 year/24,000 mile warranty provisions of Health and Safety Code Section 43204.

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 27 day of May, 1988

K. D. Drachand, Chief Mobile Source Division

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1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Manufacturer _	ISUZU MOTORS	LIMITED	Engine Family	KSZ138V5FCA8
Evaporative Fam	nily <u>CA</u>	V-C	Engine Type	L4
			Liters (CID)	2.3 (138)
ABBREVIATIONS				
Ignition System	1	Exhaust Emis	sions Control System	Special Features
Control VA-Vacuum Advar VR-Vacuum Retar CFI, EPFI, MPFI DID, DIP, HOS, nV-nVenturi Car	Control Unit gnition Spark Advance ce d	AIV-Air Inje EGR-Exhaust EIC-Electron (Diesel EM-Engine Mo SPL-Smoke Pu Throttle D TOC-Trap Oxi TOP-Trap Oxi DBC-Dual Bed OC-Oxidation TWC-Three-Wa WUOC-Warm-Up WUTWC-Warm-U OS-Oxygen Se	dification ff Limiter or elay dizer, Continual dizer, Periodical Catalyst Catalyst y Catalyst Oxidation Catalyst p Three-Way Catalyst	EPFI-Electronic Port Fuel Injection MPFI-Mechanical Port Fuel Injection SFI-Sequential Fuel Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber
VEHICLE MODELS:				
Isuzu IMPULSE	RIB-L2: 2 Do	oor Hatchback		
·				
Engine: Front	_X Mid.		Rear	
Drive : FWD	RWD	<u>x</u>	4WD Full Time	4WD Part Time

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Manufacturer ISUZU MOTORS LIMITED		Engine Family		KSZ138V5FCA8				
Liter (C	:ID)		2.3 (138	3)	Eng.	Type	L4	
Emission	Control Sy	s. (Spe	cial Fea	itures)	EGR,	OS, TWC (EPF)	I, SFI)	
Engine Code	Vehicle Mo (If Coded attachmen	see	Trans. Type	Equiv. Test Weight	Ign. System (ECU) EI Part No.	Fuel System CL, EFI Part No.	EGR Valve	Catalyst Part No.
	(Dyno H	p)			Distributor	ECM	14,0110.	
CA-2	RIB-L2		M-5	3,250	8944284110	8943388080	8943388050	8251033560
CA-4	(Dyno Hp:	9.0)	A-4	3,230	0344204110	09+3300000	0343300030	0231033300
							3.	

Date of Issue _____ Revisions: