State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-73 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	•	lacement Cubic inches)	Exhaust Emission Control Systems (Special Features)
KSZ090V2FEA8	1.5	(90)	Air Injection - Valve Exhaust Gas Recirculation Oxygen Sensor Three-Way Catalyst Warm-Up Three-Way Catalyst On-Board Diagnostics (Exempted)

Vehicle models, transmissions, engine codes and evaporative emission 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)		
0.12	1.2	0.4		

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-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) 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 _

_ day of June, 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	Engi	ne Family	KSZO9OV2FEA8
Evaporative FamilyCAN		_	ne Type	L4
		Lite	ers (CID)	1.5 (90)
ABBREVIATIONS				
Ignition System	Exhaust Em	issions	Control Syst	tem Special Features
CA-Centrifugal Advance ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard CFI, EPFI, MPFI, SFI, DID, DIP, HOS, OS nV-nVenturi Carburetor VV-Variable Venturi Carburetor	TWC-Three-Way Catalyst			EPFI-Electronic Port Fuel Injection MPFI-Mechanical Port Fuel Injection SFI-Sequential Fuel Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Brechamber
VEHICLE MODELS:				
Isuzu I-MARK			4 Door Notch 2 Door Hatch	
Chevrolet SPECTRUM			otchback otchback	
Engine: Front X Mid.		Rea	•	
Drive: FWD X RWD		4WD	Full Time _	4WD Part Time

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Passenger Cars X Light-Duty Trucks			_ Medium-Duty	Medium-Duty Vehicles		liesel	
Manufacturer ISUZU MOTORS LIMITED		Engine Fa	amily	KSZ090V2FEA8			
Liter (CI	D)	1.5 (90)	 	Eng.	Type	L4	
Emission	Control Sys. (Spe	ecial Fea	tures)	AIV, EGR,	OS, TWC, WUTW	IC	·
Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) CA, VA Part No.	0S, 2V	EGR Valve	Catalyst Part No.
	(Dyno Hp)			Distributor		Part No.	rart No.
EA-1	TID-L1 TID-L2 TID-L1H TID-L2H	M-5	2,375	8941764883	8943251980	8944016380	Under Floor Converter 8251274720
EA-2	TCD-L1 TCD-L2	A-3		8941782193	8943251990	8941403712	Exh Manifold
							8944234400
Comments:	See page one fo						

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Date of Issue _____ Revisions: