#### State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-20-71 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 1988 model-year Isuzu Motors Limited exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

Engine Family	Displacement Liters (Cubic Inches)		Exhaust Emission Control Systems (Special Features)		
JSZ138T2FBA5	2.3	(138)	Air Injection - Pump Exhaust Gas Recirculation Three-Way Catalyst Oxygen Sensor		

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

The following are the emission standards for this engine family:

Loaded Vehicle <u>Weight</u>	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per mile	
0-3750	0.41	9.0	1.0	

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

Loaded Vehicle <u>Weight</u>	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile	
0-3750	0.24	3.2	0.3	

BE IT FURTHER RESOLVED: That the listed models were 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 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 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  $16^{-6}$  day of November, 1987.

K. D. Drachand, Chief Mobile Source Division

# E.O. # A-20-71

### 1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Manufacturer	Isuzu Motors Li	mited	Engine Family	JSZ138	T2FBA5	
Evaporative Famil			Engine Type	L4		
Lyapor at the town.			Liters (CID)	2.3 (1	(138)	
ABBREVIATIONS						
Ionition System		Exhaust	Emissions Control Sy	stem	Special Features	
CA-Centrifugal Ac ECU-Electronic Co EI-Electronic Igr ESAC-Electronic S Control VA-Vacuum Advance VR-Vacuum Retard	ontrol Unit nition Spark Advance	AIV-Air DBC-Dual EGR-Exha EIC-Elec EM-Engir OC-Oxida OS-Oxyge HOS-Heat SPL-Smok Thrott TOC-Trag	Injection-Pump Injection-Valve Bed Catalyst ust Gas Recirculation tronic Injection Core Modification tion Catalyst on Sensor ed Oxygen Sensor te Puff Limiter or the Delay Oxidizer, Continuation Oxidizer, Periodica	itrol	CCV-Combustion Chamber Valv CFI-Central Fuel Injection or Throttle Bod Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic Fuel	
Fuel System  CFI, CL, DID, DI nV-nVenturi Carb	P, EFI, MFI uretor	WHOC-War	ee-Way Catalyst rm-Up Oxidation Cata arm-Up Three-Way Cat	lyst alyt	Injection IC-Intercooler or Aftercool MFI-Mechanical Fuel Injection OBD-On-Board Diagnostics TC-Turbocharger	
VEHICLE MODELS:						
KB-L2: Pick-up	o 2WD (Std cab S o 2WD (Std cab L o 2WD (Ext cab L	.WB)				
Engine: Front _ Drive: FWD	X Mid	<del></del>	Rear 4WD Full Time	4WD Par	t Time	

	Cars Light						
Liter (CID) 2.3 (138)							
	Control Sys. (Spec						
Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	LCĂ. VĂ	Fuel System 2V Carburetor Part No.		
DA 1	KB-L1 (13.1)	M-5	3,000	0041267670	8943183721	00/122/700	925101545
BA-1	(13.1) KB-L3 (13.1)	11-5	3,125	6941307650	8943183721	8341224700	
						,	
Comments:	See page one fo fer to manufactur	r abbrevi	ations an	d evaporative	emission famil	y identifica	stion.