#### State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-20-66 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 a 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 passenger cars:

Engine Family	Displacement Liters (Cubic Inches)		Exhaust Emission Control Systems (Special Features)		
JSZ138V5FCA7	2.3	(138)	Exhaust Gas Recirculation Three-Way Catalyst Oxygen Sensor (Sequential Fuel Injection)		

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	
0.27	3.2	0.2	

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

day of July, 1987.

K. D. Drachand, Chief Mobile Source Division

## E.O. # A-20-66

### 1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 1

Manufacturer	ISUZU MOTORS LI	MITED	Engine Family	JSZI	3EV5FCA7		
Evaporative Family	CAN-C		Engine Type	<u>L4</u>			
			Liters (CID)	2.3	(138)		
ABBREVIATIONS	•						
Ignition System	•	Exhaust	Emissions Control Sy	<u>/stem</u>	Special Features		
CA-Centrifugal Advance ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard		AIP-Air Injection-Pump AIV-Air Injection-Valve DBC-Dual Bed Catalyst EGR-Exhaust Gas Recirculation EIC-Electronic Injection Control EM-Engine Modification OC-Oxidation Catalyst OS-Oxygen Sensor HOS-Heated Oxygen Sensor SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical TWC-Three-Way Catalyst WUOC-Warm-Up Oxidation Catalyst			Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic Fuel Injection		
CFI, CL, DID, DIP nV-nVenturi Carbu	, EFI, MFI retor	WUTWC-Wa	arm-Up Three-Way Cat	alyt A 5	IC-Intercooler or Aftercooler MFI-Mechanical Fuel Injection OBD-On-Board Diagnostics TC-Turbocharger		
		;					
VEHICLE MODELS:			·		· .		
Isuzu IMPULSE	RIB-L2: 2 Do	or Hatchba	ack				
					·		
∟ngine: Front _							
Drive: FWD _	RWD	X	4WD Full Time	_ 4WD Part	: Time		

				AND CURRY THE NEXT	U DATA CHEET	E.O. # <u>A</u> -	<del>20-66</del>
Passenger Cars X Light-Duty Trucks  Manufacturer ISUZU MOTORS LIMITED  Liter (CID) 2.3 (138)  Emission Control Sys. (Special Features)			cks	Medium-Duty Ve	hicles	race 7	
			MITED	Engine Fam	ily		
				Eng. TypeL4			
Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) EI Part No. Distributor	Fuel System CL, EFI Part No. ECM	EGR Valve	
CA-2	RIB-L2 (Dyno Hp: 9.0)	M-5 A-4	3,250	8944284110	8944580040	8944284341	8251033560
					·		
	: See page one fo						
equipmen	efer to manufacture t. If two test we	eights ar	e listed,	the lower weigh	ght will be us	ed for testi	ing.

Date of Issue \_\_\_\_\_ Revisions: