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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	<u>Grams per Mile</u>	<u>Grams per mile</u>	
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	<u>Grams per Mile</u>		
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.

ISUZU MOTORS LIMITED

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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

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E.O. # A-20-66 1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page 1 Manufacturer ISUZU MOTORS LIMITED Engine Family JSZ138V5FCA7 Evaporative Family _____CAN-C ____Engine Type _____L4_____ Liters (CID) _____ 2.3 (138) ABBREVIATIONS Exhaust Emissions Control System Special Features Ignition System CCV-Combustion AIP-Air Injection-Pump CA-Centrifugal Advance Chamber Valve AIV-Air Injection-Valve ECU-Electronic Control Unit CFI-Central Fuel DBC-Dual Bed Catalyst EI-Electronic Ignition Injection or EGR-Exhaust Gas Recirculation ESAC-Electronic Spark Advance Throttle Body EIC-Electronic Injection Control Control Injection EM-Engine Modification VA-Vacuum Advance DID-Diesel OC-Oxidation Catalyst VR-Vacuum Retard Injection-OS-Oxygen Sensor HOS-Heated Oxygen Sensor SPL-Smoke Puff Limiter or Direct DIP-Diesel Injection-Throttle Delay Prechamber TOC-Trap Oxidizer, Continual EFI-Electronic TOP-Trap Oxidizer, Periodical Fuel TWC-Three-Way Catalyst WUOC-Warm-Up Oxidation Catalyst Injection _uel System IC-Intercooler WUTWC-Warm-Up Three-Way Catalyt or Aftercooler ٨. CFI, CL, DID, DIP, EFI, MFI MFI-Mechanical 5 nV-nVenturi Carburetor Fuel Injection OBD-On-Board Diagnostics TC-Turbocharger ÷. VEHICLE MODELS: RIB-L2: 2 Door Hatchback Isuzu IMPULSE

Drive: FWD _____ RWD ____ AWD Full Time ____ 4WD Part Time _____

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		TOADD CUDDI ENENTAL DATA	E.O. # <u>A-20-66</u>
		BOARD SUPPLEMENTAL DATA Medium-Duty Vehicles	Page 2 Gas X Diesel
Passenger Cars Manufacturer	X Light-Duty Trucks ISUZU MOTORS LIMITED	Engine Family	JSZ138V5FCA7
Liter (CID)	2.3 (138)	Eng. Type	L4
) Sys. (Special Features)	EGR, OS, TWC	(SFI)

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 Part No.	Catalyst Part No.
CA-2	RIB-L2 (Dyno Hp: 9.0)	M-5			8944580040	8944284341	825103356
CA-4		A-4	3,250	8944284110	8347580040		
Comments	: See page one for efer to manufactur t. If two test we	or abbrev	iations and list for (nd evaporative	emission fami est HP setting	ly identific s based on m	ation. nodel and

Date of Issue _____ Revisions: