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#### State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-20-65 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)		
JSZ121V5FDA4	2.0	(121)	Air Injection - Pump Exhaust Gas Recirculation Three-Way Catalyst Oxygen Sensor (Sequential Fuel Injection) (Turbocharger) (Intercooler)		

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	<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>	
0.16	3.8	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 25

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day of July, 1987.

K. D. Drachand, Chief Mobile Source Division

## E.O. # A-20-65

### 1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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manufacturer	ISUZU MOTORS L	IMITED	Engine Family	JSZ121\	/5FDA4		
Evaporative Family	CAN-C		Engine Type	L4			
			Liters (CID)	2.0 (12	2.0 (121)		
ABBREVIATIONS							
Ignition System		Exhaust E	missions Control Sy	stem	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 Recirculatio EIC-Electronic Injection Con 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, Periodica		itrol	CCV-Combustion Chamber Valve CFI-Central Fuel Injection or Throttle Body Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic Fuel		
uel System  CFI, CL, DID, DIP, nV-nVenturi Carbur		WUOC-War	e-Way Catalyst m-Up Oxidation Catal rm-Up Three-Way Cata		Injection IC-Intercooler or Aftercoole MFI-Mechanical fuel Injection OBD-On-Board Diagnostics TC-Turbocharger		
VEHICLE MODELS:  Isuzu IMPULSE	RIA-L2: Hatc	hback	÷				
ngine: Front Drive: FWD			lear	4WD Part	Time		

	Cars X Light-						
	er ISUZU M						
Liter (CID	1.95 (	121)		Eng. T	ypeL4		
Emission C	ontrol Sys. (Spec	ial Feat	ures)	AIP, EGR	, OS, TWC (5.F.)	I, IC,	TC)
Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	(ECU) EI	Fuel System CL, EFI Part No. ECM		
DA-2	RIA-L2 (Dyno Hp: 9.0)	M-5	3,250	0044204110	8944580080	8944750480	8251033560
DA-4		A-4	3,375	8944284110	8944580080	8944757060	0231033300
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Comments:	See page one fo fer to manufactur	r abbrev	iations an	d evaporative	emission fami	ly identific	ation.