State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-70 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)		
JSZ156T5FBCX	2.6	(156)	Air Injection - Pump Exhaust Gas Recirculation Three-Way Catalyst Oxygen Sensor (Electronic Port 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:

Loaded Vehicle Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides <u>Grams per mile</u>	
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 <u>Grams per Mile</u>	
0-3750	0.27	4.2	0.4	

ISUZU MOTORS LIMITED

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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 12^{10} day of November, 1987.

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K. D. Drachand, Chief Mobile Source Division

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· · · · · · · · · · · · · · · · · · ·	Isuzu Motors	limited	Engine Family	у	JSZ156T5	FBCX	
Manufacturer Suzu Hoeor			Engine Type		L4		
Evaporative Family_	<u>CAR-u</u>		Liters (CID)		2.6 (156)	
			2				
ABBREVIATIONS						Consist Fostures	
Ignition System		Exhaust En	issions Contro	1 Syster	<u>n</u>	Special reacures	
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 Contr 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 Catalys WUTWC-Warm-Up Three-Way Catalys		ation Contro or inual odical Catalyst Catalyt	1	Chamber Valve CFI-Central Fuel Injection or Throttle Body Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic Fuel Injection IC-Intercooler or Aftercooler MEL-Mechanical	
nV-nVenturi Carbure	tor					MF1-Mechanical Fuel Injection OBD-On-Board Diagnostics TC-Turbocharger	
VEHICLE MODELS:							
Isuzu P'UP							
KC-L1 : Pick-up 2 KC-L2 : Pick-up 2 KC-L3 : Pick-up 2 KC-L2T: Pick-up 2 KC-R1 : Pick-up 4 KC-R2 : Pick-up 4 KC-R3 : Pick-up	2WD (Std cab S 2WD (Std cab L 2WD (Ext cab L 2WD (Std cab L 2WD (Std cab L 4WD (Std cab S 4WD (Ext cab L 4WD (Ext cab L	WB) WB) WB l ton pa WB) WB) WB)	y load)				
	X Mid	R	.ear			-	
Drive: FWD	RWD	X 4	WD Full Time	•	4WD Part	Time X	

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Passenger Cars	19 <u>8</u> AIR RESOURCES	80ARD SUPPLEMENTAL DATA S	E.O. # <u>A-20-70</u> HEET Page <u>2</u> Gas <u>X</u> Diesel
Manufacturer	ISUZU MOTORS LIMITED	Engine Family	JSZ156T5FBCX
Liter (CID)	2.6 (156)	Eng. Type	L4
Emission Contr	ol Sys. (Special Features)	AIP, EGR, OS, TWC (EFI)	

Engine Code	Vehicle Models (If Coded see	Trans. Type	Equiv. Test Weight	Ign. System (ECU)	Fuel System CL, EFI	EGR Valve	Catalyst
	(Dyno Hp)		nergne	Part No. Distributor	Part No. ECM	Part No.	Part No.
	KC-L1 (13.1)		3,125				
	KC-L2, KC-L2T (13.1) (15.0)		3,250				
BC-1	KC-L3 (13.1)	M-5	3,375				
na freiða er sjóðs	KC-R1 (14.7)		3,625				
	KC-R2 KC-R3 (14.7)		3,750	8944761431	8943342540	8941224780	8251015450
	KC-L1, KC-L2 (13.1) (13.1)		3,250				
BC-2	KC-L3 (13.1)	A-4	3,375				
	KC-R1 (14.7)		3,625				
	KC-R2 (14.7)		3,750				
Comments: [^] lease re ₁ uipment	See page one for fer to manufactur . If two test we	er abbrev er's HP eights ar	iations an list for c e listed,	d evaporative orrect dyno te the lower weig	emission fami st HP settings ht will be use	ly identific s based on m ed for testi	ation. odel and ng.

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Date of Issue ______ Revisions: ECM changed by RC88T13 on 022988.