State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-79 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 1989 model-year Isuzu Motors Limited exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

Engine Family		isplacement s (Cubic inches)	Exhaust Emission Control Systems (Special Features)					
KSZ156T5FBBX	2.6	(156)	Air injection — Pump Exhaust Gas Recirculation Oxygen Sensor Three-Way Catalyst (Electronic Port Fuel Injection) On-Board Diagnostics (Exempted)					

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(lbs.)	Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
3751-5750	0.50	9.0	1.0

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

Loaded Vehicle Weight(ibs.)	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
	(Grams per Mile)	(Grams per Mile)	(Grams per Mile)
3751-5750	0.18	4.6	. 0.3

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 "Maifunction 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.).

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 18 day of September, 1988.

K. D. Drachand, Chief Mobile Source Division

E.O. # A-20-7

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Manufacturer ISUZU MOTORS	LIMITED	Engine Family	KSZ156T5FBBX			
Evaporative Family CAN	√- G	Engine Type				
		Liters (CID)	2.6 (156)			
ABBREVIATIONS						
Ignition System	Exhaust Em	nissions Control System	Special Features			
CA-Centrifugal Advance ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard 21 System CFI, EPFI, MPFI, SFI, DID, DIP, HOS, OS nV-nVenturi Carburetor VV-Variable Venturi Carburetor	AIV-Air In EGR-Exhaus EIC-Electr (Dies EM-Engine SPL-Smoke Throttle TOC-Trap COBC-Dual EOC-Oxidati TWC-Three-WUOC-Warm-WUTWC-Warm OS-Oxygen	xidizer, Continual Exidizer, Periodical Sed Catalyst on Catalyst Way Catalyst Up Oxidation Catalyst N-Up Three-Way Catalyst	CFI-Central Fuel Injection or Throttle Body Injection EPFI-Electronic Port Fuel Injection MPFI-Mechanical Port Fuel Injection SFI-Sequential Fuel Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber TC-Turbocharger SC-Supercharger IC-Intercooler or Aftercooler CCV-Combustion Chamber Valve OBD-On-Board Diagnostics			
VEHICLE MODELS:						
Isuzu TROOPER	UC-R3P : U UC-R1PH: U	Itility Vehicle 4WD (4-Doo Itility Vehicle 4WD (2-Doo Itility Vehicle 4WD (4-Doo Itility Vehicle 4WD (2-Doo	or, 5 Seater) or, 5 Seater)			
Isuzu TROOPER II	UC-R3T : U UC-R1TH: U	Itility Vehicle 4WD (4-Doo Itility Vehicle 4WD (2-Doo Itility Vehicle 4WD (4-Doo Itility Vehicle 4WD (2-Doo	or, 2 Seater) or, 2 Seater)			
Engine: Front X Mid.		Rear				
rwb RWD RWD	X	4WD Full Time	4WD Part Time X			

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	19 <u>89</u>	AIR RES	JURCES BUA	RD SUPPLEMENTA	L DATA SHEET	Pag	ge2
Passenge	er Cars Light	-Duty Ti	cucks X	_ Medium-Duty \	Vehicles		
Manufact	urer ISUZU	MOTORS I	IMITED	Engine Fa	amily	KSZ156T5FBI	3X
Liter ((CID)	2.6 (156	i)	Eng.	Туре	L4	
	n Control Sys. (Spe						
	Τ.	1		·		1	·
Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) EI	Fuel System EPFI, OS	EGR Valve	Catalyst
	(Dyno Hp)			Part No. Distributor	Part No. ECM	Part No.	Part No.
BB-1	UC-R1P UC-R1T	M-5	4,000		8943418890		
BB-2	(15.8)	A-4	4,000		6943416690		
BB-3	UC-R1P UC-R1T UC-R3P UC-R3T (15.8) UC-R1PH UC-R1TH UC-R3PH UC-R3TH (15.7)	M-5	4,000	8941476120	8943674690	8941224780	8251015450
BB-4	UC-R1P UC-R1T UC-R3P UC-R3T (15.8) UC-R3PH UC-R3TH (15.7)	A-4	4,000	·			
·	UC-RIPH UC-RITH (15.7)		4,250	·			

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

Date	of	Issue	Revisions:	Α.	Incorrect	vehicle	model	names	and	ECM
					part numbe	er corre	cted or	i 09088	38.	

B. Addition of new engine codes BB-3 and BB-4 by running change RC89T01 on 093088.