#### State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-20-82 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		splacement (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
KSZ173T5FGB5	2.8	(173)	Air Injection - Pump Exhaust Gas Recirculation Oxygen Sensor Three-Way Catalyst (Central 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	Carbon Monoxide	Nitrogen Oxides
	(Grams per Mile)	(Grams per Mile)	(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	0.37	3.8	0.9

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.).

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 3/ day of October, 1988.

K. D. Drachand, Chief Mobile Source Division

# E.O. # A-ZU-8Z

### 1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 1

ManufacturerISUZU MOTORS	LIMITED	Engine Family	KSZ173T5FGB5
Evaporative FamilyCA	N-H	Engine Type	V6
		Liters (CID)	2.8 (173)
ABBREVIATIONS			
Ignition System	Exhaust Em	issions 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  Fuel System  CFI, EPFI, MPFI, SFI, DID, DIP, HOS, OS nV-nVenturi Carburetor VV-Variable Venturi Carbureto	AIV-Air In, EGR-Exhaus EIC-Electro (Diese EM-Engine EM-E	xidizer, Continual xidizer, Periodical ed Catalyst on Catalyst Way Catalyst Up Oxidation Catalyst -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	UI-R1P: U	tility Vehicle 4WD (4 [	Door, 5 Seater)
Isuzu TROOPER II	UI-R1T: U	tility Vehicle 4WD (4 E	Door, 2 Seater)
Engine: Front X Mid.  Drive: FWD RWD	X	Rear 4WD Full Time	4WD Part Time X

E.O.	#	A-70-	92

_						Pag	e2	
Passenger	Cars Ligh	t-Duty Tr	ucks X	Medium-Duty	Vehicles	Gas X D	iesel	
Manufacti	rerISUZU	MOTORS L	IMITED	Engine Fa	Engine Family		KSZ173T5FGB5	
Liter (C	ID)	2.8 (173	)	Eng. Type		V6		
Emission	Control Sys. (Sp	ecial Fea	tures)	AIP, EGR,	OS, TWC(CFI)		- 17, 174, 174, 174, 174, 174, 174, 174,	
Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) EI Part No. Distributor	Fuel System CFI, OS Part No. ECM	EGR Valve	Catalyst Part No.	
GB-2	UI-R1P UI-R1T (15.8)	M-5	4,000	8011036440	8160825610	8170867200	8251280950	
Comments: Please re	fer to manufactu	rer's HP	list for a		est HP setting	s based on m	odel and	

Revisions:

030186

Date of Issue \_\_\_\_