#### State of California Air RESOURCES BOARD

## EXECUTIVE ORDER A-20-80 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	Displacement Liters (Cubic Inches)		Exhaust Emission Control Systems (Special Features)		
KSZ156T5FGA8	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(Ibs.)	Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
0-3750	0.41	9.0	0.4
The following are	the certification	emission values for th	is engine family:

Loaded Vehicle Weight(ibs.)	Hydrocarbons (Grams per Mile)	(Grams per Mile)	Nitrogen Oxides (Grams per Mile)	
0-3760			0.3	

SE 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 10 day of September, 1988.

K. D. Drachand, Chief Mobile Source Division

# E.O. # A-20-80

### 1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 1

Manufacturer	ISUZU MOTORS I	LIMITED	Engine Family	KSZ156T5FGA8
Evaporative FamilyCAN-		-G	Engine Type	L4
			Liters (CID)	2.6 (156)
ABBREVIATIONS				
Ignition System		Exhaust Emi	ssions 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  AIP-Ai  AIV-Ai  EGR-Ex  EM-Eng  SPL-Sm  Thro TOC-Tr  TOP-Tr  DBC-Du  OC-Oxi  WUOC-W  WUOC-W  OS-Oxy		AIV-Air Inj EGR-Exhaust EIC-Electro (Diese EM-Engine M SPL-Smoke F Throttle TOC-Trap Ox TOP-Trap Ox DBC-Dual Be OC-Oxidatio TWC-Three-M WUOC-Warm-M WUTWC-Warm-OS-Oxygen	kidizer, Continual kidizer, 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.			•	obb on board bragnoscres
VEHICLE MODELS:  Isuzu PICKUI  Isuzu AMIGO		KC-L2: P KC-L3: P KC-L2T: P KC-R1: P KC-R2: P KC-R3: P WC-L3: U	ickup Truck 2WD (Std cab ickup Truck 2WD (Std cab ickup Truck 2WD (Ext cab ickup Truck 2WD (Std cab ickup Truck 4WD (Std cab ickup Truck 4WD (Std cab ickup Truck 4WD (Ext cab tility Vehicle 2WD tility Vehicle 4WD	LWB) LWB) LWB 1 ton pay load) SWB) LWB)
Engine: Front _	X Mid.	>	Rear	
✓ Drive : FWD	RWD	X	4WD Full Time	4WD Part Time X

E.O.	#	A-20	-80

### 1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

			4		Pag	ge <u>2</u>
Ligh	t-Duty Tr	ucks X	Medium-Duty	Vehicles	Gas X I	iesel
Manufacturer ISUZU MOTORS LIMITED  Liter (CID) 2.6 (156)		IMITED				
		)				
Sys. (Spe	ecial Fea	tures)	AIP, EGR,	OS, TWC (EPF)	[)	
e Models	Trans. Type	Equiv.	Ign. System	Fuel System EPFI, OS	EGR Valve	Catalyst
nment)		Weight	EI Part No. Distributor	Part No. ECM	Part No.	Part No.
.1		3,125				
, KC-L2T (15.0)	M-5	3,250	8944761431	8943323560	8943323570	825101545
.3		3,375				
.3		3,500				
R1 .7)		3,625				
R2 R3 R3		3,750				
, KC-L2	A-4	3,250				
.1)		3,375				
R3 R3 .7) . KC- .1) .3 .1)	one fo	A-4 one for abbrev	A-4 3,250 A-4 3,375  one for abbreviations a facturer's HP list for	A-4 3,250 A-4 3,375  one for abbreviations and evaporative facturer's HP list for correct dyno is	One for abbreviations and evaporative emission family facturer's HP list for correct dyno test HP setting	-L2 3,250 A-4

030186

Date of Issue \_\_\_\_\_ Revisions: