## State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-20-74 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 28, 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 passenger cars:

Engine Family	Displacement Liters (Cubic Inches)		Exhaust Emission Control Systems (Special Features)		
KSZ090V5FFA0	1.5	(90)	Air injection - Vaive Exhaust Gas Recirculation Three-Way Catalyst Warm-Up Three-Way Catalyst (Electronic Port Fuel injection) (Turbocharger) 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:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides		
(Grams per Mile)	(Grams per Mile)	(Grams per Mile)		
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)	(Grams per Mile)	
0.17	1.5	0.4	

BE IT FURTHER RESOLVED: That the listed models are 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 vehicle manufacturer is certifying to the optional NOx standard by providing evidence that there are sufficient projected sales of vehicles certifying to the primary NOx emission standard, or is allowed a delay in implementation under small volume manufacturer provisions, or is allowed a delay in implementation under the "In Ileu" standards, or is certifying passenger cars weighing more than 5250 lbs. loaded vehicle weight.

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 aititude 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 the 2 year/24,000 mile warranty provisions of 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 \_\_\_\_\_\_\_ d

\_ day of June, 1988.

K. D. Drachand, Chief Mobile Source Division

#### E.O. # A-20-74

### 1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Manufacturer ISUZU MOTORS	LIMITED	Engine Family	KSZ090V5FFA0	
Evaporative FamilyCAN	-F	Engine Type	L4	
		Liters (CID)	1.5 (90)	
ABBREVIATIONS  Ignition System	Exhaust [	Emissions 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  CFI, EPFI, MPFI, SFI, DID, DIP, HOS, OS nV-nVenturi Carburetor VV-Variable Venturi Carburetor	AIV-Air I EGR-Exhau EIC-Elect (Die EM-Engine SPL-Smoke Thrott TOC-Trap TOP-Trap DBC-Dual OC-Oxidat TWC-Three WUCC-Warn WUTWC-Warn OS-Oxyger	Injection - Pump Injection - Valve ust Gas Recirculation tronic Injection Control esel Only) e Modification e Puff Limiter or le Delay Oxidizer, Continual Oxidizer, Periodical Bed Catalyst tion Catalyst e-Way Catalyst m-Up Oxidation Catalyst n Sensor ed Oxygen Sensor	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 I-MARK	TIE-L1H:	4 Door Notchback		
Chevrolet SPECTRUM TURBO	TCE-L1: TCE-L2:	4 Door Notchback 2 Door Hatchback		
Engine: Front X Mid.		Rear		
Jrive : FWJ X RWD	·	4WD Full Time	4WD Part Time	

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Manufacturer ISUZU MOTORS LIMITED  Liter (CID) 1.5 (90)  Emission Control Sys. (Special Features)							
				L4			
Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) EI Part No. Distributor	Fuel System OS, EPFI Part No. ECM	EGR Valve	Catalyst Part No.
FA-1	TCE-L1 TCE-L2 (Dyno Hp: 7.7) TIE-L1H (Dyno Hp: 6.6)	M-5	2,500	8011036740	8160743990	8944629980	Manifold Converter

030186

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