

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-56  
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 1987 model-year Isuzu Motors Limited exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
HSZ138T2FDGO	138 (2.3)	Air Injection - Pump Exhaust Gas Recirculation Three-Way Catalyst Oxygen Sensor

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

<u>Equivalent Inertia Weight</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per mile</u>
0-3999	0.41	9.0	1.0

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

<u>Equivalent Inertia Weight</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0-3999	0.28	2.6	0.4

BE IT FURTHER RESOLVED: That the listed models 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 1981 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 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 8th day of August, 1986.



K. D. Drachand, Chief  
Mobile Source Division

1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Isuzu Motors Limited Engine Family HSZ138T2FDGO  
 Evaporative Family CAN-E Engine Type L-4  
 Liters (CID) 138(2.3)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance  
 EEC-Electronic Engine Control  
 EI-Electronic Ignition  
 ESAC-Electronic Spark Advance Control  
 VA-Vacuum Advance  
 VR-Vacuum Retard

Exhaust Emissions Control System

AIP-Air Injection-Pump  
 AIV-Air Injection-Valve  
 CL-Closed Loop  
 EGR-Exhaust Gas Recirculation  
 EM-Engine Modification  
 OC-Oxidation Catalyst System  
 SPL-Smoke Puff Limiter or Throttle Delay  
 TOC-Trap Oxidizer, Continual  
 TOP-Trap Oxidizer, Periodical  
 TR-Thermal Reactor  
 TWC-Three-Way Catalyst System

Special Features

CCV-Combustion Chamber Valve  
 CFI-Central Fuel Injection  
 DID-Diesel Injection-Direct  
 DIP-Diesel Injection-Prechamber  
 EFI-Electronic Fuel Injection  
 IC-Intercooler or aftercooler  
 MFI-Mechanical Fuel Injection  
 TC-Turbocharger

Fuel System

CFI, CL, DID, DIP, EFI, MFI.  
 nV-nVenturi Carburetor

VEHICLE MODELS:

Models: Isuzu P'UP

KG-1M : Pick-up 2WD (Short Wheel base)  
 KG-2M : Pick-up 2WD (Long Wheel base)  
 KG-3M : Pick-up 2WD (Long Wheel base, Extended Cab)  
 KG-4M : Pick-up 4WD (Short Wheel base)  
 KG-5M : Pick-up 4WD (Long Wheel base)  
 KG-6M : Pick-up 4WD (Long Wheel base, Extended Cab)

Models: Isuzu Trooper

UG-7M : Special Purpose Vehicle 4WD (2 Seaters)  
 UG-8M : Special Purpose Vehicle 4WD (5 Seaters)

Models: Isuzu Trooper II

UG-7L : Special Purpose Vehicle 4WD (2 Seaters)  
 UG-8L : Special Purpose Vehicle 4WD (5 seaters)

Engine: Front X Mid.        Rear       

Drive: FWD        RWD X 4WD Full Time        4WD Part Time X

Revisions: (A) Addition of vehicle models (UG-7M, UG-8M, UG-7L & UG-8L) by RC87T02 on 071186.

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Passenger Cars \_\_\_\_\_ Light-Duty Trucks X Medium-Duty Vehicles \_\_\_\_\_ Gas X Diesel \_\_\_\_\_

Manufacturer Isuzu Motors Limited Engine Family HSZ138T2FDGO

Liter (CID) 138(2.3) Eng. Type L-4

Emission Control Sys. (Special Features) TWC, CL, AIP and EGR

Engine Code	Vehicle Models (If Coded see attachment)  (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System CA, VA Distributor Part No.	Fuel System 2V Carburetor Part No.	EGR Valve  Part No.	Catalyst  Part No.	
TDG-11	KG-1M (10.4 HP)	M-5	2,875	8941672490	8941367640			
	KG-2M (10.4 HP)		3,000					
	KG-3M (10.5 HP)							
TDG-12	KG-4M (11.5 HP)		3,250	8941619730				8941367630
	KG-5M (13.0 HP)		3,375					
	KG-6M (12.2 HP)							
TDG-13	KG-1M (10.4 HP)	A-3	2,875	8941619730	8941367630			
	KG-2M (10.4 HP)							
	KG-3M (10.5 HP)		3,000					
TDG-16	UG-7L UG-8L UG-7M UG-8M (13.4 HP)	M-5	3,750	8941367650	8944300840			

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: (A): Addition of engine code TDG-16 by RC87T02 on 071186.