State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-43
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 1986 model-year Isuzu Motors Limited exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

Engine Family	Displacement Cubic Inches (Liters)		Exhaust Emission Control Systems (Special Features)
GSZ138T2FDGX	138	(2.3)	Air Injection-Pump Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop

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

The following are the emission standards for this engine family:

Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0-3999	0.41	9.0	1.0

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

Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0-3999	0.28	1.9	0.4

BE IT FURTHER RESOLVED: That the listed models were 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 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 Health and Safety Code Section 43204, provided, however, that jurisdiction is hereby reserved to modify these provisions to the extent made necessary by an EPA waiver decision, in order to assure that the listed vehicles comply with the minimum federal requirements applicable in California.

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 15th day of January, 1985.

K. D. Drachand, Chief
Mobile Source Division

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Isuzu Motors Limited

Executive Order No. A-20-43

Engine Family GSZ138T2FDGX

Evaporative Family CAN-E

Engine CID (Liters) 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
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
MFI-Mechanical Fuel Injection
TC-Turbocharged

Fuel System

CFI, CL, DID, DIP, EFI, MFI
V-nVenturi Carburetor
VV-Variable Venturi

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
UG-8M : Special Purpose Vehicle 4WD

Models: Isuzu Trooper II

UG-7L : Special Purpose Vehicle 4WD
UG-8L : Special Purpose Vehicle 4WD

DRIVE SYSTEM: Front Engine/ Rear & 4 -Wheel Drive

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

__ Passenger Cars X Light-Duty Trucks __ Medium-Duty Vehicles X Gas __ Diesel

Manufacturer Isuzu Motors Limited E.O. #A A-20-43

Engine Family GSZ138T2FDGX CID (liter) - Type 138 (2.3) - L4

ECS (Special Features) TWC, CL, AIP and EGR

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv. Test Weight	Ign. System CA, VA, EI Distributor Part No.	Fuel System 2V Carburetor Part No.	EGR Valve Part No.	Label Ident. Part No.
TDG-11	KG-1M	M-5	2,875	8941672490	8941367640	8941224780	8941600470
	KG-2M		3,000				
	KG-3M						
TDG-12	KG-4M		3,250	8941619730			
	KG-5M		3,375				
	KG-6M						
TDG-13	KG-1M	A-3	2,875		8941367630		
TDG-14	UG-7M	M-5	3,625	8941367650	8941367640		
	UG-7L						
TDG-15	UG-7M				8944281280		
	UG-7L						
	UG-8L						
	UG-8M						

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.

*Add 10% to dyno test HP for air conditioning usage.

Date of Issue -

Revisions: (A) ETW of KG-4M, KG-5M and KG-6M are changed under RC86T08 on 031585.

(B) Engine code TDG-14 is changed to TDG-15 under RC86T11 on 111185.

(C) Vehicle Model UG-8L and UG-8M are added under RC86T12 on 121085.