

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-24
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 1983 model-year Isuzu Motors Limited exhaust emission control systems are certified as described below for gasoline-powered passenger cars.

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
DSZ111V2FEG7	111 (1.8)	Air Injection - Pump Exhaust Gas Recirculation Three-way Catalyst with Closed Loop

Vehicle Models, Transmissions, Engine Codes and Evaporative Emission Control Families as listed on attachments.

The following are the emission standards for this engine family to be listed on the window decal required by California Assembly-Line Test Procedures for 1983 model-year vehicles:

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.41	7.0	0.7

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

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.14	7.0	0.2

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.15 of Title 13, California Administrative Code which includes repair or replacement of 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.

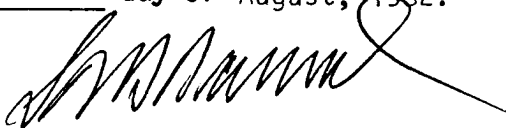
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1981 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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 20th day of August, 1982.



K. D. Drachand, Chief
Mobile Source Control Division

1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Isuzu Motors Limited Executive Order No. A-20-24 Page 1
 Engine Family DSZ111V2FEG7 Evaporative Family CAN-A
 Engine CID (Liters) 111 (1.8)-L4

ABBREVIATIONS

Ignition System

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

Fuel System

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

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
 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
 MFI-Mechanical Fuel Injection
 TC-Turbocharged

Models: I-MARK

P-1: Coupe
 P-2: Sport Coupe
 P-3: Sedan
 P-4: Sport Sedan

DRIVE SYSTEM: Rear Wheel

Issued:

1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Isuzu Motors Limited E.O. #A-20-24

Engine Family DSZ111V2FEG7 CID (liter) - Type 111 (1.8) 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 Distrib. Part No.	Fuel System 2V Carb. Part No.	EGR Valve Part No.	Label Ident. Part No.
VEG-1	P-1	M-5	2,625	Nippon Denso Co., Ltd. 8942537440	Hitachi Ltd. 8942451140	8942123000	8941006670
	P-2						
	P-3						
	P-4						
VEG-2	P-1	A-3					
	P-2						
	P-3						
	P-4						

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 - 082082 - CORRECTED FEB 83.
Revisions:

1983 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 -20-25

Engine Family DSZ119T2FDGX CID (liter) - Type 119(1.9)-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 Distrib. Part No.	Fuel System 2V Carb. Part No.	EGR Valve Part No.	Label Ident. Part No.
TDG-1	P'UP-1	M-4	2,750	Nippon Denso Co., Ltd. 8942537440	Hitachi Ltd. 8942507060	8942123000	8941039690
		M-5					
	P'UP-3	M-4	2,875				
		M-5					
P'UP-4	M-4	3,000					
TDG-2	P'UP-1	A-3	2,875	8942537450	8942507070		
	P'UP-3						

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 - 082082. *CORRECTED FEB 83.*

Revisions:

1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Isuzu Motors Limited E.O. # A-20-26

Engine Family DSZ111D6JCD7 CID (liter) - Type 111 (1.8)-L4

ECS (Special Features) EM (DIP)

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv. Test Weight	Ign. System Part No.	Fuel System Injection Pump Part No.	EGR Valve Part No.	Label Ident. Part No.
DCD-1	PD-1	M-4	2,500	NA	Diesel Kiki Co., Ltd. 8942429570 8942429590 8941079280	NA	894101-0180
	PD-1 PD-2	M-5	2,625				
	PD-3 PD-4	M-5	2,750				
DCD-2	PD-1 PD-2 PD-3 PD-4	A-3	2,750		8942429580 8942429600		

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 - 090182, *CORRECTED FEB 83.*
Revisions:

1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Isuzu Motors Limited E.O. #A-20-27

Engine Family DSZ137K6JB01 CID (liter) - Type 137 (2.2)-L4

ECS (Special Features) EGR (DIP)

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv. Test Weight	Ign. System Part No.	Fuel System Injection Pump Part No.	EGR Valve Part No.	Label Ident. Part No.
KBD-1	P'UPD-1	M-5	3,000	NA	8941002870	8941144220	894103-5630
	P'UPD-3		3,125				
	P'UPD-4	M-4	3,250				
KBD-2	P'UPD-1	A-3	3,000	NA	8942507390		
	P'UPD-3		3,125				

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.

1983 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

 Passenger Cars Light-Duty Trucks Medium-Duty Vehicles Gas DieselManufacturer Isuzu Motors Limited E.O. #A-20-24Engine Family DSZ111V2FEG7 CID (liter) - Type 111 (1.8) L4ECS (Special Features) TWC,CL,AIP and EGR

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv. Test Weight	Ign. System	Fuel System	EGR Valve	Label Ident.
				Part No.	Part No.	Part No.	Part No.
VEG-1	P-1*	M5 (M-2E)	2,625	Nippon Denso Co., Ltd. 8942537440	Hitachi Ltd. 8942451140	Jidosha Buhin Kogyo Co., Ltd. 8942123000	See tune up label (Pg. 3)
	P-2*						
	P-3*						
	P-4*						
VEG-2	P-1*	A3 (A-2)			8942451150		
	P-2*						
	P-3*						
	P-4*						

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:

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Isuzu Motors Limited.

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Engine Family DSZ111V2FEG7

Evaporative Family CAN-A

Engine CID (Liters) 111 (1.8)-L4

I-MARK VEHICLE EMISSION CONTROL INFORMATION
ISUZU MOTORS LIMITED



SET PARKING BRAKE AND BLOCK DRIVE WHEELS

ENGINE TUNE-UP CONDITIONS

MAKE IDLE SPEED ADJUSTMENT WITH ENGINE AT NORMAL OPERATING TEMPERATURE, CHOKE OPEN, AIR CONDITIONER OFF IF INSTALLED, AIR CLEANER INSTALLED, DISTRIBUTOR VACUUM LINE, GANISTER PURGE LINE AND EGR VACUUM LINE DISCONNECTED AND PLUGGED, IDLE COMPENSATOR VACUUM LINE CLOSED BY BENDING RUBBER HOSE, AND TRANSMISSION IN NEUTRAL (BOTH MANUAL AND AUTOMATIC)

IDLE SPEED SETTING PROCEDURE

1. ADJUST THROTTLE ADJUST SCREW TO 900 RPM.
2. IF AIR CONDITIONER IS INSTALLED: TURN A.C. ON MAX. COLD AND HIGH BLOWER. OPEN THE THROTTLE TO APPROX. 1/3 AND ALLOW THE THROTTLE TO CLOSE (THIS ALLOWS THE SPEED-UP SOLENOID TO REACH FULL TRAVEL.)
- ADJUST THE SPEED-UP CONTROLLER ADJUSTING SCREW TO SET IDLE AT 900 RPM.

IDLE MIXTURE ADJUSTING SCREW IS PRESET AND SEALED AT THE FACTORY. PROVISION FOR ADJUSTMENT DURING TUNE UP IS NOT PROVIDED.

CATALYST

TWC, EGS, AIP AND EGR

ENGINE TUNE-UP SPECIFICATIONS ARE APPLICABLE TO ANY ALTITUDE.

EVAPORATIVE FAMILY	CAN-A
ENGINE FAMILY	DSZ111V2FEG7
ENGINE DISPLACEMENT	111 CID (1.8 LITRE)
IDLE SPEED	900 RPM
IGNITION TIMING	6° BTDC AT 900 RPM
SPARK PLUG GAP	0.04 IN. (1.05 MM)
VALVE LASH	IN .0006 IN. (0.15 MM)
(COLD) EXH.	0.010 IN. (0.25 MM)

IGNITION TIMING SETTING PROCEDURE

1. SET IDLE SPEED TO 900 RPM.
2. CONNECT TIMING LIGHT LEAD TO NO. 1 CYLINDER.
3. ALIGN MARK ON CRANK-SHAFT PULLEY TO TIMING MARK WITH TIMING LIGHT AIMED TOWARD TIMING MARK.

UNPLUG AND RECONNECT ALL VACUUM LINES WHEN ADJUSTMENTS ARE COMPLETED. SEE SHOP MANUAL AND MAINTENANCE SCHEDULE FOR ADDITIONAL INFORMATION.

THIS VEHICLE CONFORMS TO U.S. EPA AND STATE OF CALIFORNIA REGULATIONS APPLICABLE TO 1983 MODEL YEAR NEW MOTOR VEHICLES PROVIDED THAT THIS VEHICLE IS ONLY INTRODUCED INTO COMMERCE FOR SALE IN THE STATE OF CALIFORNIA.

PT. NO. 8941006670

Issued:

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Engine Family DSZ111V2FEG7

Evaporative Family CAN-A

Engine CID (Liters) 111 (1.8)-L4

Issued:

