## State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-20-20 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 Order G-45-3, and G-45-4;

IT IS ORDERED AND RESOLVED: That 1982 model-year Isuzu Motors Limited exhaust emission control systems are certified as described below for gasoline-powered passenger cars.

| Engine Family          | Displacement<br>Cubic Inches (Liters) | Exhaust Emission Control Systems (Special Features)   |  |  |  |
|------------------------|---------------------------------------|---|--|--|--|
| CSZ111V2FEG6 111 (1.8) |                                       | Air Injection - Pump<br>Exhaust Gas Recirculation<br>Three Way Catalyst with<br>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 1982 model-year vehicles:

| Hydrocarbons   | Carbon Monoxide | Nitrogen Oxides |  |  |
|----------------|-----------------|-----------------|--|--|
| Grams per Mile | Grams per Mile  | Grams per Mile  |  |  |
| 0.41           | 7.0             | 0.4             |  |  |

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  |  |  |
| 0.14           | 7.0             | 0.2             |  |  |

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 in El Monte, California this

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K. D. Drachand, Chief Mobile Source Control Division

# 1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

| Manufacturer <u>Isuzu Motors Limited</u> | Executive Order No.  | A-20-20       | Page | 1 |
|--|----------------------|---------------|------|---|
| Engine Family <u>CSZ111V2FEG6</u>        | Evaporative Family _ | CAN-A         | _    |   |
|  | Engine CID (Liters)  | 111 CID (1.8) | _    |   |

#### **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 Coupe

Drive System: Front engine/rear axle drive

DRIVE SYSTEM:

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|------|-----------|
|------|-----------|

# 1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

| X | Passenger Cars   | Light-Duty | Trucks             | Medium-Duty | Vehicles | <u>X</u> Gas  | Diesel  |
|---|--|------------|--------------------|-------------|----------|---------------|---------|
|   | Manufacturer   |            |                    |             |          |               |         |
|   | Engine Family CSZ111V2FEG6  ECS (Special Features) AIP |            | CID (liter) - Type |             | Туре     | 111 (1.8) L-4 | .8) L-4 |
|   |  |            | , EGR, TWC         | /CL         |          |               |         |

| Engine<br>Code | Vehicle Models<br>(If Coded see<br>attachment) | Trans. | Equiv.<br>Test<br>Wei <b>g</b> ht | Ign. System<br>CA,VA,EI<br>mfgr.<br>Part No. | Fuel System<br>1-2V<br>mfgr.<br>Part No. | EGR Valve<br>mfgr<br>Part No.                      | Label<br>Ident.<br>Part No. |
|----------------|--|--------|-----------------------------------|--|--|--|-----------------------------|
| VEG-1          | P-1<br>P-2<br>P-3<br>P-4                       | M-5    | 2625                              | Nippon Denso<br>Co., Ltd.<br>8942172420      | Hitachi Ltd.<br>8942451140               | Automobile<br>Parts Mfg.<br>Co.,Ltd.<br>8942123000 | 894244-<br>1150             |
| VEG-2          | P-1<br>P-2                                     | A-3    |                                   |  | 8942451150                               |  |                             |
| VEG-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.

Date of Issue -Prisions:

<sup>\*</sup>Add 10% to dyno test HP for air conditioning usage.