

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-23-113  
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 1993 model-year Isuzu Motors Limited exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: PSZ1.8V5FCG5 Displacement: 1.8 Liters (110 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Three Way Catalytic Converter  
Exhaust Gas Recirculation  
Heated Oxygen Sensor  
Multiport Fuel Injection

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

The certification exhaust emission standards for this engine family in grams per mile are:

| <u>Miles</u> | <u>Non-Methane<br/>Hydrocarbons</u> | <u>Carbon<br/>Monoxide</u> | <u>Nitrogen<br/>Oxides</u> |
|--------------|-------------------------------------|----------------------------|----------------------------|
| 50,000       | 0.39                                | 7.0                        | 0.4                        |

The certification exhaust emission values for this engine family in grams per mile are:

| <u>Miles</u> | <u>Non-Methane<br/>Hydrocarbons</u> | <u>Carbon<br/>Monoxide</u> | <u>Nitrogen<br/>Oxides</u> |
|--------------|-------------------------------------|----------------------------|----------------------------|
| 50,000       | 0.28                                | 2.4                        | 0.2                        |

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying to the 50,000-mile non-methane hydrocarbons and carbon monoxide standards based on its projected total sales of 1993 model California-certified passenger cars and light-duty trucks.

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" for the aforementioned model year (Title 13, California Code of Regulations, Section 2290).

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 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 Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

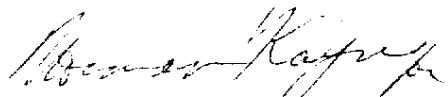
BE IT FURTHER RESOLVED: That the vehicle models listed also comply with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." for the aforementioned model year (Title 13, California Code of Regulations, Section 1968).

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 provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

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 17<sup>th</sup> day of July, 1992.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

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Manufacturer ISUZU MOTORS LIMITED Engine Family PSZ1.8V5FCG5  
 Passenger Car X (PC) Light-Duty Truck     (T1/T2) Medium-Duty Vehicle     (M1/M2/M3/M4/M5)  
 Stds Type: Tier 0 (Tier 0/1, AB965, TLEV, LEV, ULEV) Veh. Type (FFV, HEV (type A/B/C)):      
 Fuel Type: Gasoline Evaporative Family: CAN-J  
 Engine Config. L4 Liter (CID) 1.8 (110)  
 Engine: Front X Mid.     Rear     Drive: FWD X RWD     4WD-FT     4WD-PT      
 Exhaust ECS & Special Features (incl. CARB, MFI, etc.) TWC, EGR, HO2S, MFI  
 (Use abbreviations per SAE J1930 MY91)

| Engine Code<br>(Cert. Std.) | Vehicle Models<br>(if coded see<br>attachment) | Trans. Type<br>A-automatic<br>M-manual | ETW  | DPA<br>or<br>RLHP | Ignition<br>(ECM/PCM)<br>Part No. | EGR<br>System<br>Part No. | Catalyst<br>Part No.                  |
|-----------------------------|--|--|------|-------------------|-----------------------------------|---------------------------|---------------------------------------|
| CG-2                        | R11-R4   | A4                                     | 2875 | 6.8               | ECM<br>8161666390                 | 8970467820                | TWC<br>8251282190<br>or<br>8943868030 |
|                             | TCI-R4   |  |      | 6.8               |                                   |                           |                                       |
| CG-1                        | T11-R1   | M5                                     |      | 6.1               | ECM<br>8161666490                 |                           |                                       |
|                             | R11-R4   |  |      | 5.8               |                                   |                           |                                       |
|                             | TCI-R4   |  |      | 5.8               |                                   |                           |                                       |

(Cert std)

NMHC/CO/NOx/Evap.: 0.39/7.0/0.4/2.0

Vehicle Model T11-R1: Isuzu STYLUS, 4 Door Notchback  
 R11-R4: Isuzu IMPULSE, 2 Door Coupe  
 TCI-R4: Chevrolet STORM, 2 Door Coupe