

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-120  
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 Isuzu Motors Limited 1993 model-year exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

Engine Family: PSZ3.2T5FCJ2 Displacement: 3.2 Liters (193 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>Loaded Vehicle Weight (lbs.)</u> | <u>Miles</u> | <u>Non-Methane Hydrocarbons</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> |
|-------------------------------------|--------------|---------------------------------|------------------------|------------------------|
| 3751-5750                           | 50,000       | 0.50                            | 9.0                    | 1.0                    |

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

| <u>Loaded Vehicle Weight (lbs.)</u> | <u>Miles</u> | <u>Non-Methane Hydrocarbons</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> |
|-------------------------------------|--------------|---------------------------------|------------------------|------------------------|
| 3751-5750                           | 50,000       | 0.32                            | 1.8                    | 0.3                    |

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 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 the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Code of Regulations, 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, and with the California Inspection and Maintenance emission standards in place at the time of certification, 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" (Title 13, California Code of Regulations, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Code of Regulations, Section 1968) 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 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 18<sup>th</sup> day of August, 1992.

  
R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET E.O. # A-20-120 Page 1 of 1Manufacturer ISUZU MOTORS LIMITED Engine Family PSZ3.2T5FCJ2Passenger Car    (PC) Light-Duty Truck X (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-KEngine Config. V6 Liter (CID) 3.2 (193)Engine: Front X Mid.    Rear    Drive: FWD    RWD    4WD-FT    4WD-PT XExhaust ECS & Special Features (incl. CARB, MFI, etc.) TWC, EGR, HO2S, MFI  
(Use abbreviations per SAE J1930 MAY91)

| 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. |
|-----------------------------|--|--|------|-------------------|-----------------------------------|---------------------------|----------------------|
| CJ-1                        | UK-S1  | M                                      | 4500 | 14.8              | ECM<br>8161838690                 | 8943648741                | 8970328812           |
| CJ-2                        | UK-S1  | A                                      | 4500 | 14.8              | ECM<br>8161838790                 |                           |                      |

(Cert Std)

NMHC/CO/NOx/Evap.; 0.50/9.0/1.0/2.0

Vehicle Model UK-S1 ; TROOPER 4WD, long wheelbase .