State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-64 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 a 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 1988 model-year Isuzu Motors Limited exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

| Engine Family | | isplacement s (Cubic Inches) | Exhaust Emission Control Systems (Special Features) |
|---------------|-----|---------------------------------|---|
| JSZ090V5FFAX | 1.5 | | Air Injection - Valve Exhaust Gas Recirculation Warm-Up Three-Way Catalyst Three-Way Catalyst Oxygen Sensor (Electronic Port Fuel Injection) (Turbocharger) |

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

The following are the emission standards for this engine family:

| Hydrocarbons | Carbon Monoxide | Nitrogen Oxides | |
|----------------|-----------------|-----------------|--|
| Grams per Mile | Grams per Mile | Grams per mile | |
| 0.41 | 7.0 | 0.7 | |

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 | |
| 0.15 | 1.4 | 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 1960.1.5 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 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 Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compliance with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Administrative Code, 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 regulations (Title 13, California Administrative Code, Section 2035 et seq.) and with Health and Safety Code Section 43204.

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

_day of July, 1987.

K. D. Drachand, Chief Mobile Source Division

1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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| Manufacturer | ISUZU MOTORS | LIMITED | _Engine Family | JSZ0 | 90V5FFAX |
|--|-------------------------------------|---|--|--------------------|---------------------------------|
| Evaporative Famil | y <u>CAN-F</u> | | Engine Type Liters (CID) _ | L4 1.5 | (90) |
| ABBREVIATIONS Ignition System | | | issions Control jection-Pump | System | Special Features CCV-Combustion |
| CA-Centrifugal Ad ECU-Electronic Co EI-Electronic Ign ESAC-Electronic S Control VA-Vacuum Advance VR-Vacuum Retard Fuel System CFI, CL, DID, DI nV-nVenturi Carb | ntrol Unit ition park Advance | AIV-Air In DBC-Dual B EGR-Exhaus EIC-Electr EM-Engine OC-Oxidati OS-Oxygen HOS-Heated SPL-Smoke Throttle TOC-Trap (TOP-Trap (TWC-Three- WUOC-Warm | jection-Valve ed Catalyst t Gas Recircula onic Injection Modification on Catalyst Sensor I Oxygen Sensor Puff Limiter or | Control ual lical | Chamber Valve CFI-Central Fuel |
| VEHICLE MODELS: Isuzu I-MARK | Ţ | IE-LI, TIE-L TF-12. TIE-L | .1H: 4 Door Not .2H: 2 Door Hat | tchback tchback | |
| Chevrolet SPECT | RUM TURBO T | CE-L1: 4 Do | oor Notchback oor Hatchback | | |
| Engine: Front | X Mid X RWD | | ear | 4110 | Part Time |

| | Cars <u>X</u> Light- er <u>ISUZU</u> | | | | | | |
|---------------------------------------|--|----------------|----------------------------|----------------------|------------------------|------------|----------|
| ter (CID | 1.5 (9 | 90) | | Eng. T | ype <u>L</u> 4 | <u> </u> | |
| ission C | ontrol Sys. (Spec | ial Feat | ures) | AIV, EG | R, OS, TWC (EF | I, TC) | |
| Engine Code | (If Coded see Type | Trans. Type | . Equiv. Test Weight | Ian. System | Fuel System CL, EFI | EGR Valve | Catalys |
| | attachment) (Dyno Hp) | | Weight | Part No. Distributor | Part No. ECM | Part No. | Part No. |
| FA-1 | TIE-L1 TIE-L2 TCE-L1 TCE-L2 (Dyno Hp: 7.7) | | 2,500 | 8011036740 | 8160743990 | 8944629980 | Manifold |
| · · · · · · · · · · · · · · · · · · · | TIE-L1H TIE-L2H (Dyno HP: 6.6) | ral rates | | et orgine George | | | |
| | · | | | | | | |
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| | | | | | | | |
| | | | | | | | |

Revisions: Models TCE-L2, TIE-L1H and TIE-L2H added by RC88V04 & RC88V05 on 112887. Catalyst changed by RC88V12 on 022988.

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Date of Issue _____