File



State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-292-43
Relating to Certification of New Motor Vehicles

MITSUBISHI MOTOR MANUFACTURING OF AMERICA, INC.

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-45-9;

IT IS ORDERED AND RESOLVED: That 1999 model-year Mitsubishi Motor Manufacturing of America, Inc. exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type: Gasoline

Engine Family: XDSXV02.4G2H Displacement: 2.4 Liters (143.4 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Warm Up Three Way Catalytic Converter
Three Way Catalytic Converter
Heated Oxygen Sensors (two)
Sequential Multiport Fuel Injection
Exhaust Gas Recirculation

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

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

| Miles | Non-Methane Organic Gas | Carbon Monoxide | Nitrogen Oxides | Formaldehyde | Carbon Monoxide (20°F) |
|---|---|---|---|---|---|
| 50,000 | 0.075 | 3.4 | 0.2 | 0.015 | 10.0 |
| 100,000 | 0.090 | 4.2 | 0.3 | 0.018 | n/a |

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.94

The certification exhaust emission values set forth for non-methane organic gas (NMOG) reflect application of a 0.94 RAF for 1999 model-year LEVs. The LEV certification exhaust emission values for this engine family in grams per mile are:

| Miles | Non-Methane Organic Gas | Carbon Monoxide | Nitrogen Oxides | Formaldehyde | Carbon Monoxide (20°F) |
|---|---|---|---|---|---|
| 50,000 | 0.043 | 0.4 | 0.1 | 0.001 | 7.6 |
| 100,000 | 0.046 | 0.4 | 0.1 | 0.001 | n/a |

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average NMOG exhaust mass emission requirements as set forth 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 under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the "California Refueling Emission Standards and Test Procedures for 1998 and Subsequent Model Motor Vehicles," Title 13, California Code of Regulations, Section 1978, and the listed vehicle models comply with those standards.

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 2235).

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

BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.2) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

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.).

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

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 2nd day of March 1998.

R. B. Summerfield, Chief
Mobile Source Operations Division

17.16.02

E.O.# A-292-43

# 1999 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
## PASSENGER CARS, LIGHT-DUTY TRUCKS

Manufacturer : Mitsubishi Motor Manufacturing of America, Inc.
Exh Engine Family : XDSXV02.4G2H(2.4C-S)
Evap Engine Family : XDSXR0165A1F

All Eng Codes in Eng Fam: CA X 49S__ 50S__
ORVR : Yes X No__
Exh Std : CA Tier-1__ TLEV__ LEV X ULEV__ SULEV__ ;EPA Tier-0__Tier-1__
In-Use Exh Std : Full in Use X Alt In Use__

Veh Class(es) : PC X LDT1__ LDT2__
Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1)
Fuel Type(s) : Dedicated X Flex-Fuel__ Dual-Fuel__ Bi-Fuel__ Gasoline X
Diesel__ CNG__ LNG__ LPG__ M85__ Other (specify)_____
Emis Test Fuel *1 : Indo__ Ph2 X CNG__ LPG__ M85__ Other (specify)_____
Diesel: 13 CCR 2282__ or 40 CFR 86.113-90__ or -94__
Evaporative Emission Test Procedure: California__ Federal X

Service Accum : Std AMA__ Mod AMA X Mfr ADP__ Other (specify)_____
NMOG Test Proc : N/A__ Std X Equiv__
R/L Test Proc : SHED X Pt Source__

Engine Configuration : IL4 Displacement: 2.4 Liters/ 143.4 Cubic Inches
Valves per Cylinder : 4 Rated HP: 140 @ 5500 RPM
Engine : Front X Mid__ Rear__
Drive : FWD X RWD__ 4WD-FT__ 4WD-PT__
Exhaust ECS (eg., EGR, MFI, TC, CAC): EGR+HO2S(2)+TWC+WUTWC+SFI
(use abbreviations per SAE J1930 SEP91)

Note) *1: Cert. emission is tested by Phase-II
Evap. emission is tested by Indolene

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| Engine Code (also list CAL/FED/BOTH) | Vehicle Models (if coded see attachment) | Trans. type *1 | ETW | DPA or RLHP | Ignition (ECM/PCM) Part No. | EGR System Part No. | Catalytic Converter Part No. |
|---|---|---|---|---|---|---|---|
| ACM (CAL) | Mitsubishi Galant | M5 | 3250 | 6.3 | Distributor: N/A | EGR Valve: MD353689 (ST#) | Front: MR212859 |
| CM (CAL) | | | 3125 | 5.8 | ECM(M/T): MD355246 (E2T67683#) | Solenoid: MR127520 (K5T48271) | Rear: MR281011*2 |
| ACA (CAL) | | L4 | 3375 | 6.3 | | | |
| CA (CAL) | | | 3250 | 5.8 | ECM(A/T): MD355244 (E2T70173#) | | |

*1: M-Manual transmission
L-Automatic transmisson with lock-up
*2: With Ni
N/A: Not Applicable