

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-86-205  
Relating to Certification of New Motor Vehicles

MITSUBISHI MOTORS CORPORATION

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 1997 model-year Mitsubishi Motors Corporation exhaust emission control systems are certified as described below for light-duty trucks:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: VMT3.52JG2EK Displacement: 3.5 Liters (213.4 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

- Dual Warm Up Three Way Catalytic Converters
- Three Way Catalytic Converter
- Sequential Multiport Fuel Injection
- Dual Heated Oxygen Sensors (two)

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

The non-methane organic gas (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) TLEV certification exhaust emission standards for this engine family in grams per mile are:

Loaded Vehicle Weight (lbs.)	Miles	NMOG	CO	NOx	HCHO	CO (20°F)
3751-5750	50,000	0.160	4.4	0.7	0.018	12.5
	100,000	0.200	5.5	0.9	0.023	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for NMOG reflect application of a 0.98 RAF for 1997 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

Loaded Vehicle Weight (lbs.)	Miles	NMOG	CO	NOx	HCHO	CO (20°F)
3751-5750	50,000	0.095	1.2	0.1	0.002	9.2
	100,000	0.107	1.4	0.1	0.003	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 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 Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

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."

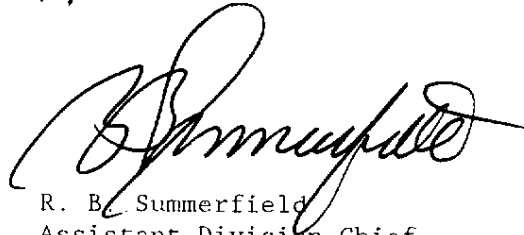
BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

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 1996.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

'97MY  
(1/2)

17.16.02

E.O.# A-86-205

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
PASSENGER CARS, LIGHT-DUTY TRUCKS

Manufacturer : Mitsubishi Motors Corporation  
Exh Engine Family : VMT3.52JG2EK(3.5TQC)  
Evap Engine Family: VMT1200AYM1G

All Eng Codes in Eng Fam: CA  49S\_\_\_ 50S\_\_\_  
Exh Std : CA Tier-1\_\_\_ TLEV  LEV\_\_\_ ULEV\_\_\_ ZEV\_\_\_ ;EPA Tier-0\_\_\_ Tier-1\_\_\_  
Evap Std : 50K\_\_\_ Useful Life with R/L   
In-Use Exh Std: Full in Use  Alt In Use\_\_\_

Veh Class(es) : PC\_\_\_ LDT1\_\_\_ LDT2   
Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1)  
Fuel Type(s) : Dedicated  Flex-Fuel\_\_\_ Dual-Fuel\_\_\_ Bi-Fuel\_\_\_ Gasoline   
Diesel\_\_\_ CNG\_\_\_ LNG\_\_\_ LPG\_\_\_ M85\_\_\_ Other (specify)\_\_\_  
Emis Test Fuel: Indo\_\_\_ Ph2  CNG\_\_\_ LPG\_\_\_ M85\_\_\_ Other (specify)\_\_\_  
Diesel: 13 CCR 2282\_\_\_ or 40 CFR 86.113-90\_\_\_ or -94\_\_\_

Service Accum : Std AMA\_\_\_ Mod AMA  Mfr ADP\_\_\_ Other (specify)\_\_\_  
NMOG Test Proc: N/A\_\_\_ Std  Equiv\_\_\_  
R/L Test Proc : SHED  Pt Source\_\_\_  
Hybrid : Type A\_\_\_ B\_\_\_ C\_\_\_, APU Cycle (e.g., Otto, Diesel, Turbine)\_\_\_

Engine Configuration: V6 Displacement: 3.5 Liters/ 213.4 Cubic Inches  
Valves per Cylinder : 4 Rated HP: 197 @ 5000 RPM  
Engine : Front  Mid\_\_\_ Rear\_\_\_  
Drive : FWD\_\_\_ RWD\_\_\_ 4WD-FT\_\_\_ 4WD-PT   
Exhaust ECS (eg., EGR, MFI, TC, CAC): 2HO2S(2)+TWC+2WUTWC+SFI  
(use abbreviations per SAE J1930 SEP91)

'97MY  
(2/2)

E.O.# A-86-205

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
PASSENGER CARS, LIGHT-DUTY TRUCKS

Manufacturer : Mitsubishi Motors Corporation  
Exh Engine Family : VMT3.52JG2EK(3.5TQC)  
Evap Engine Family: VMT1200AYM1G

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.	Catalytic Converter Part No.
ACM-F(CAL)	Mitsubishi Montero	M5	4750	14.6	ECM: MD338136 (E2T37496)	Front: (right) MR266406 (left) MR266408  Rear: MR281461
CM-F(CAL)						
ACA-F(CAL)		L4	4750	14.9		
CA-F(CAL)			4750	14.6		

\*1: M-Manual transmission  
L-Automatic transmission with lock-up