State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-86-228 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 1999 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)

<u>Fuel Type</u>: Gasoline

• •

Engine Family: XMTXT02.4G1G 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

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.)	<u>Miles</u>	NMOG		<u>NOx</u>	НСНО	_CO (20 ⁰ 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 1999 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

Loaded Vehicle _Weight (lbs.)	Miles	NMOG		NOx	НСНО	_CO (20°F)_
3751-5750	50,000	0,093	1.7	0.2	0.001	9.0
	100,000	0.106	2.1	0.2	0.002	n/a

MITSUBISHI MOTORS CORPORATION

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 and Smog Index 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.). MITSUBISHI MOTORS CORPORATION

÷

EXECUTIVE ORDER A-86-228 (Page 3 of 3)

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").

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 27th day of July 1998.

R. B. Summerfield, Chief Mobile Source Operations Division

'99MY

<u>17.16.02</u>

E.O.# A-82-228

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

Manufacturer : <u>Mitsubishi Motors Corporation</u> Exh Engine Family : XMTXT02.4G1G (2.4TC) Evap Engine Family : XMTXE0130A1A All Eng Codes in Eng Fam : CA X 49S 50S ORVR : Yes No X Exh Std : CA Tier-1_TLEV X LEV_ULEV_SULEV_; EPA Tier-0_ Tier-1_ In-Use Exh Std : Full in use X Alt In Use Veh Class(es) : PC LDT1 LDT2 X 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 *1 Diesel CNG LNG 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 : IL4Displacement: 2.4Liters/ 143.4Cubic InchesValves per Cylinder : 4Rated HP: 128 @ 5500RPM : Front X Mid Rear Engine : FWD RWD X 4WD-FT 4WD-PT Drive Exhaust ECS (eg., EGR, MFI, TC, CAC) : H02S(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

17.16.02-2.4TC-1

'99MY

E.O.# A-80-228

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

Manufacturer	:	:	Mitsubishi	Motors	Corporation

Exh Engine Family : XMTXT02.4G1G (2.4TC) Evap Engine Family : XMTXE0130A1A

- .

(also CAL	e Code o list JFED OTH)	Vehicle Models (if coded see attachment)	Trans. type *1	ETW	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No. *2	Catalytic Converter Part No.
ACM	(CAL)	Mitsubishi Montero Sport	M5 (M5RP)	3875	13.6	Distibutor: MD330133	1	Front: MR224410
СМ	(CAL)			3750	12.2	(T2T56171) ECM: MD352527 (E2T69181)	Solenoid: N/A	Rear: MR355891 (1W)*2

*1 : M-Manual transmission

L-Automatic transmission with lock-up

*2 : This vehicle is not installed the EGR system.

*3 : With Ni

N/A: Not Applicable

17.16.02-2.4TC-2