

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-86-187

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

MITSUBISHI MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following 1996 model-year Mitsubishi Motors Corporation diesel-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
TMT238C7DBAA	3.9 (238)	Turbocharger Oxidation Catalytic Converter Charge Air Cooler Engine Control Module

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for this engine family in grams per brake horsepower-hour:

<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.10

The following are the certification exhaust emission values for this engine family in grams per brake horsepower-hour:

<u>Engine Family</u>	<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
TMT238C7DBAA	0.2	1.8	4.7	0.08

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted 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.).

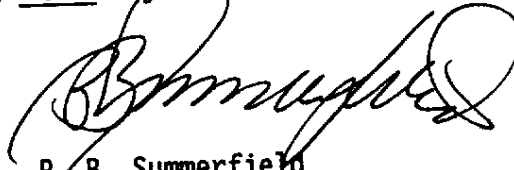
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Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 22nd day of March, 1995.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

E.O.# A-86-187

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Manufacturer Mitsubishi Motors Corporation Engine Family TMT238C7DBAA
 Displacement: 3.9 Liters 238 Cubic Inches
 Maximum Rated Power: 145 HP @ 2,900 RPM Engine Configuration: In-line, OHV, 4 cylinders
 Ignition: Compression Compression with Glow Plug x Spark
 Fuel Type(s): Dedicated Flex-Fuel Dual-Fuel Diesel x M100 M85
 CNG LNG LPG Other (specify)
 Diesel Cert Fuel: 13 CCR 2282 40 CFR 86.1313-90 40 CFR 86.1313-94 x
 Primary Intended Service Class: LHD x MHD HHD Urban Bus
 Exhaust ECS (incl. MFI, TC, CAC): OC, TC and CAC, ECM

(Use abbreviations per SAE J1930 Sept.91)

Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm ³ / stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
4D34T3A-US96	135 HP 3,000 rpm	75 mm ³ /st. (48.9 lbs/hr)	I/P ME015297(M/T) ME015298(A/T) I/N ME015202	MC883161	N/A	ME290188
4D34T3B-US96	145 HP 2,900 rpm	83 mm ³ /st. (54.1 lbs/hr)	I/P ME015260(M/T) ME015261(A/T) I/N ME015202	MC898134	N/A	ME290188

Date Issued:

Revisions:

I/P : Fuel Injection Pump

I/N : Fuel Injection Nozzle