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State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-311-4  
Relating to Certification of New Motor Vehicles

VECTOR AEROMOTIVE 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 1998 model-year Vector Aeromotive Corporation exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: WG2XV05.7981 Displacement: 5.7 Liters (348 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

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

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

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

<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.25	3.4	0.4	10.0
100,000	0.31	4.2	0.6	n/a

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

<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.11	2.1	0.3	7.9
100,000	0.15	3.1	0.3	n/a

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 vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 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 shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", pursuant to provisions in said standards and test procedures applicable to ultra-small volume manufacturers.

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 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 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.).

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 29<sup>th</sup> day of June 1998.



R. B. Summerfield, Chief  
Mobile Source Operations Division

1998 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Vector Exh Eng Fam: WG2XV05.7981 Evap Fam: WG2XV0130981  
 All Eng Codes in Eng Fam: CA     49S     50S XX AB965      
 Exh Std: CA Tier-1 X TLEV     LEV     ULEV     ZEV    ; US EPA Tier-1 X  
 Evap Std: 50K X Useful Life with R/L     In-Use Exh Std: Full In Use X Alt In Use      
 Veh Class(es): PC XX LDT1     LDT2     MOV1     MOV2     MOV3     MOV4     MOV5      
 Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MOV1, MOV2, MOV3, MOV4)  
 Fuel Type(s): Dedicated XX Flex-Fuel     Dual-Fuel     Bi-Fuel     Gasoline XX Diesel      
 CNG     LNG     LPG     M85     Other (specify)      
 Emiss Test Fuel(s): Indo XX Ph2     CNG     LPG     M85     Other (specify)      
 Diesel: 13 CCR 2282     40 CFR 86.113-90     40 CFR 86.113-94      
 Service Accum: Std AMA XX Mod-AMA     Mfr ADP     Other (specify) ADF  
 HMOG Test Procedure: N/A XX Std     Equiv     R/L Test Proc: SHED     Pt Source      
 Hybrid: Type A     B     C    , APU Cycle (e.g., Otto, Diesel, Turbine):      
 Engine Configuration: V-12 Displacement:     / 5.7 Liters     / 348 Cubic Inches  
 Valves per Cylinder: 4 Rated HP:     492     @ 6800 RPM  
 Engine: Front     Mid XX Rear     Drive: FWD     RWD XX 4WD-FT     4WD-PT      
 Exhaust ECS (e.g., MFI, EGR, TC, CAC): SFI, 2HO2S(2), 2WUTWC, 2TWC  
 (use abbreviations per SAE J1930 SEP91)

Code (also list CA/49ST/50ST)	Vehicle Models (if coded see attachment)	Trans. (M5, A4 etc.)	ETW or Test Wt.	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
ENG 96 L529/71  (50 ST)	Avtechsc / M12	M-5	4000	11.7	522-20- 37603	-----	132-44- 31149

Date Issued:             
 Revisions: