

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-237-7  
Relating to Certification of New Motor Vehicles

ZIMMER MOTOR COACH 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 Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1987 model-year Zimmer Motor Coach Corporation exhaust emission control systems are certified as described below for gasoline-powered medium-duty vehicles:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
HZM2.6T6FXX7	159 (2.6)	Three-Way Catalyst Oxygen Sensor (Mechanical Fuel Injection)

Vehicle models, transmissions and engine codes are listed on attachments.

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

The following are the emission standards for this engine family:

<u>Equivalent Inertia Weight</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per mile</u>
6000 & larger	0.60	9.0	1.5

The following are the certification emission values for this engine family:

<u>Equivalent Inertia Weight</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
6000 & larger	0.42	2.9	0.8

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

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" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1981 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 Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

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 regulations (Title 13, California Administrative Code, 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 26<sup>th</sup> day of August, 1986.



K. D. Drachand, Chief  
Mobile Source Division

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Zimmer Motor Coach Corp Executive Order No. A-237-7  
 Engine Family HZM2.6T6FXX7 Evaporative Family DZM2.6T6FXX3  
 Engine CID (Liters) 159 (2.6)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance  
 EEC-Electronic Engine Control  
 EI-Electronic Ignition  
 ESAC-Electronic Spark Advance Control  
 VA-Vacuum Advance  
 VR-Vacuum Retard

Exhaust Emissions Control System

AIP-Air Injection-Pump  
 AIV-Air Injection-Valve  
 CL-Closed Loop  
 EGR-Exhaust Gas Recirculation  
 EM-Engine Modification  
 OC-Oxidation Catalyst System  
 TR-Thermal Reactor  
 TWC-Three-Way Catalyst System

Special Features

CCV-Combustion Chamber  
 CFI-Central Fuel Injection  
 DID-Diesel Injection Direct  
 DIP-Diesel Injection Prechamber  
 EFI-Electronic Fuel Injection  
 MFI-Mechanical Fuel Injection  
 TC-Turbocharger

Fuel System

CFI, CL, DID, DIP, EFI, MFI  
 nV-nVenturi Carburetor  
 VV-Variable Venturi

VEHICLE MODELS:

ASTRON, Merchandiser, and Chief Executive.

DRIVE SYSTEM: FRONT (N-S) Engine/ FRONT -Wheel Drive

1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. # A-237-7

Passenger Cars  Light-Duty Trucks  Medium-Duty Vehicles  Gas

Manufacturer Zimmer Motor Coach Corporation Page \_\_\_\_\_

Engine Family HZM2.6T6FXX7 Engine Code \_\_\_\_\_

ECS (Special Features) TWC-CL(MF1) CID (Liter)-Type 159 (2.6)

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv. Test Weight	Ign. System VA-CA-EI Part No.	Fuel System MFI Part No.	EGR Valve NONE Part No.
83A	ASTRON MERCHANDISER CHIEF EXEC.	A-3	6500	ECU Bosch 0280 800 050	Fuel Pump Bosch 0580 254 984  Injectors Bosch 0437 502 010	N/A

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model equipment. If two test weights are listed, the lower weight will be used for testing.

\*Add 10% to dyno test HP for air conditioning usage.