

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-3-56
Relating to Certification of New Motor Vehicles

DAIMLER-BENZ AG

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 1984 model-year Daimler-Benz AG exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
EMB5.0V6F500	303 (5.0)	Air Injection - Pump Three-Way Catalyst with Closed Loop (Mechanical Fuel Injection)

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

The following are the certification emission standards for this engine family to be listed on the window decal required by "California Assembly-Line Test Procedures for 1983 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles":

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.41	7.0	0.7

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

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.19	1.1	0.3

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.15 of Title 13, California Administrative Code which includes repair or replacement of emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

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 Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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 8th day of September, 1983.


K. D. Drachand, Chief
Mobile Source Control Division

Manufacturer Daimler-Benz AG Executive Order No A-3-56
 Engine Family EMB5.OV6F500 Evaporative Family EMBV6
 Engine CID (Liters) 5.0 Liters

ABBREVIATIONS

Ignition System

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

Fuel System

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

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 Feature

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

VEHICLE MODELS:

500 SEL

500 SEC

DRIVE SYSTEM: Front Engine/Rear -Wheel Drive

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. #A-3-56

Passenger Cars Light-Duty Trucks Medium-Duty Vehicles Gas Diesel

Manufacturer Daimler-Benz AG Page 2

Engine Family EMB5.OV6F500 Engine Code M117

ECS (Special Features) AIP/CL/TWC/MFI CID (Liter)-Type 5.0/V-8

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equip. Test Weight	Ign. System <i>EI</i> Part No.	Fuel System <i>MFI</i> Part No.	EGR Valve Part No.	Label Ident. Part No.
4-117	500 SEL 500 SEC	A-4	4250 4000	003 158 10 01	Fuel Distr. 0 438 100 088 Air Sensor: 0 438 120 135	n/a	Tune-up Label: 126 584 28 21 Vac. Hose Diagram: 126 584 30 21

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 and 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.

Date of Issue -

Daimler-Benz AG	US	MY1984	Engine Family EMB5.0V6F500	Section 10.00	Page 25
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EMISSION DATA SELECTION WORKSHEET

Emission Control System : FI/AI/TWC/OS
 Engine Code : M 117

1. Body Style ETW (lbs) incl. options over 33%

a) 500 SEL 4 250

b) 500 SEC 4 000

2. Body Style Road Load Power¹ (HP)

a) 500 SEL 11.5

b) 500 SEC 11.0

3. Engine Code Displacement (cm³)

a) M 117 4937

b)

4. Engine Code Fuel Flow (cm³/min) at max. rated torque

a) M 117 -

5. Body Style Transmission Axle Ratio

a) 500 SEL 4-A 2.47

b) 500 SEC 4-A 2.47

¹ incl. 10% for A/C

Section No. 10.13.00.00	Title EDV - Selection Worksheet				Issue Date 05-28-82	
Revision No.						
Revision Date						