

Full

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-3-170  
Relating to Certification of New Motor Vehicles

MERCEDES-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 Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1998 model-year Mercedes-Benz AG exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type: Gasoline

Engine Family: WMBXV03.2GNB Displacement: 2.8 Liters (171 Cubic Inches)  
3.2 Liters (195 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

- Sequential Multiport Fuel Injection
- Secondary Air Injection
- Exhaust Gas Recirculation
- Dual Three Way Catalytic Converters
- Dual Warm Up Three Way Catalytic Converters
- Dual Heated Oxygen Sensors (two)

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

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

<u>Miles</u>	<u>Non-Methane Organic Gases</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Formaldehyde</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.075	3.4	0.2	0.015	10.0
100,000	0.090	4.2	0.3	0.018	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.94

The certification exhaust emission values set forth for non-methane organic gases (NMOG) reflect application of a 0.94 RAF for 1998 model-year LEVs. The LEV certification exhaust emission values for this engine family in grams per mile are:

<u>Miles</u>	<u>Non-Methane Organic Gases</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Formaldehyde</u>	<u>Carbon Monoxide (20°F)</u>
50,000	0.020	0.2	0.1	0.002	4.4
100,000	0.020	0.2	0.1	0.004	n/a

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.

E 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 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 the listed models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

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 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 15<sup>th</sup> day of August 1997.

*Raphael Susnaitz*  
for R. B. Summerfield, Chief  
Mobile Source Operations Division

E. O. # A-3-170

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

Page 1 of 2

Manufacturer: Mercedes-Benz Exh. Eng Family: WMBXV03.2GN6 Evap. Family: WMBXE0155MNN  
 All Eng Codes in Eng Fam: CA 49S 50S X AB965 ORVR Yes No X  
 Exh Std: CA Tier-1 TLEV LEV X ULEV SULEV US EPA Tier-1 X  
 Veh Class(es): PC X LDT1 LDT2 MDV1 MDV2 MDV3 MDV4 MDV5  
 Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)  
 Fuel Type(s): Dedicated Flex-Fuel Dual-Fuel Bi-Fuel Gasoline X Diesel  
 CNG LNG LPG M85 Other (specify) \_\_\_\_\_  
 Exh. Emiss Test Fuel(s): Indo CBG X CNG LPG M85 Other (specify) \_\_\_\_\_  
 Diesel: 13 CCR 2282 \_\_\_\_\_ 40 CFR 86.113-90 \_\_\_\_\_ 40 CFR 86.113-94 \_\_\_\_\_  
 Evaporative Emission Test Procedure: California \_\_\_\_\_ Federal X  
 Service Accum: Std AMA \_\_\_\_\_ Mod AMA X Mfr ADP \_\_\_\_\_ Other (specify) \_\_\_\_\_  
 NMOG Test Procedure: N/A \_\_\_\_\_ Std X Equip \_\_\_\_\_ R/L Test Proc. SHED X Pt Source \_\_\_\_\_  
 Engine Configuration: V-6 Displacement: 2.8 / 3.2 Liters 171 / 195 Cubic Inches  
 Valves per Cylinder: 3 Rated HP: 194 / 215 5800 / 5700 RPM  
 Engine: Front X Mid \_\_\_\_\_ Rear \_\_\_\_\_ Drive: FWD \_\_\_\_\_ RWD X 4WD-FT X 4WD-PT \_\_\_\_\_  
 Exhaust ECS (eg., MFI, EGR, TC, CAC): SFI / AIR / EGR / 2 HO2S (2) / 2 WU-TWC / 2 TWC  
 (use abbreviations per SAE J1930 JUN93)

Engine Code (also list CA/49ST/50ST)	Vehicle Models (if coded see attachment)	Trans. Type (A 4, M 5 etc)	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
M 112-32	E 320 (Wagon, 4WD)	L 5	4 250	9.0	A 023 545 97 32	A 112 140 0 60	A 140 490 36 36 (underhood) A 210 490 14 14 (underfloor)
M 112-32	E 320 (Wagon, RWD)	L 5	4 000	7.4	A 023 545 97 32 or A 020 545 05 32	A 112 140 00 60	A 140 490 36 36 (underhood) A 210 490 14 14 (underfloor)
M 112-32	E 320 (Sedan, 4WD)	L 5	4 000	8.0	A 023 545 97 32 or A 020 545 05 32	A 112 140 00 60	A 140 490 36 36 (underhood) A 210 490 14 14 (underfloor)
M 112-32	E 320 (Sedan, RWD)	L 5	3 875	6.5	A 023 545 97 32 or A 020 545 05 32	A 112 140 00 60	A 140 490 36 36 (underhood) A 210 490 14 14 (underfloor)

Date Issued:

Revisions:

E.O. # A-3-170

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

Page 2 of 2

Manufacturer: Mercedes-Benz Exh. Eng Family: WMBXV03.2GNB Evap. Family: WMBXE0115PNN  
 All Eng Codes in Eng Fam: CA 49S 50S  AB965 ORVR Yes      No   
 Exh Std: CA Tier-1 TLEV LEV  ULEV SULEV US EPA Tier-1   
 Veh Class(es): PC  LDT1      LDT2      MDV1      MDV2      MDV3      MDV4      MDV5       
 Single Cert Std for Multi-Class Eng Fam:      (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)  
 Fuel Type(s): Dedicated      Flex-Fuel      Dual-Fuel      Bi-Fuel      Gasoline  Diesel       
CNG      LNG      LPG      M85      Other (specify)       
 Exh. Emiss Test Fuel(s): Indo      CBG  CNG      LPG      M85      Other (specify)       
Diesel: 13 CCR 2282      40 CFR 86.113-90      40 CFR 86.113-94       
 Evaporative Emission Test Procedure: California      Federal   
 Service Accum: Std AMA      Mod AMA  Mfr ADP      Other (specify)       
 NMOG Test Procedure: N/A      Std  Equip      R/L Test Proc. SHED  Pt Source       
 Engine Configuration: V-6 Displacement: 2.8 / 3.2 Liters 171 / 195 Cubic Inches  
 Valves per Cylinder: 3 Rated HP: 194 / 215 5800 / 5700 RPM  
 Engine: Front  Mid      Rear      Drive: FWD      RWD  4WD-FT  4WD-PT       
 Exhaust ECS (eg., MFI, EGR, TC, CAC): SFI / AIR / EGR / 2 HO2S (2) / 2 WU-TWC / 2 TWC  
 (use abbreviations per SAE J1830 JUN93)

Engine Code (also list CA/49ST/50ST)	Vehicle Models (if coded see attachment)	Trans. Type (A 4, M 5 etc)	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
M 112-32	CLK 320	L 5	3 625	5.7	A 023 545 97 32 or A 020 545 05 32	A 112 140 00 60	A 202 490 99 14 (underhood) A 210 490 44 14 (underfloor)
M 112-28	C 280	L 5	3 625	7.3	A 023 545 97 32 or A 020 545 05 32	A 112 140 00 60	A 202 490 99 14 (underhood) A 210 490 44 14 (underfloor)

Date Issued:  
200329210 011-00

Revisions: