State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-3-53
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:

| Engine Family | Displacement Cubic Inches (Liters) | | Exhaust Emission Control Systems (Special Features) |
|---|---|---|---|
| EMB2.3V6F505 | 140 | (2.3) | 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":

| Hydrocarbons Grams per Mile | Carbon Monoxide Grams per Mile | Nitrogen Oxides Grams per Mile |
|---|---|---|
| 0.41 | 7.0 | 0.7 |

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

| Hydrocarbons Grams per Mile | Carbon Monoxide Grams per Mile | Nitrogen Oxides Grams per Mile |
|---|---|---|
| 0.24 | 1.6 | 0.1 |

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

# 1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Daimler-Benz AG

Executive Order No. A-3-53

Engine Family EMB2.3V6F505

Evaporative Family EMBV6

Engine CID (Liters) 140 (2.3) 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 MODEL:

190 E 2.3

DRIVE SYSTEM: Front Engine/ Rear -Wheel Drive

122182

E.O. #A-3-53

# 1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer Daimler-Benz AG

Page 2

Engine Family EMB2.3V6F505

Engine Code M102

ECS (Special Features) CL/TWC/MFI

CID (Liter)-Type 140 (2.3) L-4

| Engine Code | Vehicle Models (If Coded see attachment) | Trans. | Equiv. Test Weight | Ign. System EI Part No. | Fuel System MFI Part No. | EGR Valve Part No. | Label Ident. Part No. |
|---|---|---|---|---|---|---|---|
| M 102 | 190E2.3 | A-4 | 3000 | 003 158 24 01 | Fuel Distributor 0 438 101 004 Air Sensor 0 438 121 010 | n/a | Tune up L: 201 584 0521 Vac. Hose Diagram 201 584 0621 |

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

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

ate of Issue -

71080

## EMISSION DATA SELECTION WORKSHEET

Emission Control System : FI/TWC/OS
Engine Code : M102

| 1. Body Style | ETW (lbs) incl. options over 33% |
|---|---|
| a) 190 E 2.3 | 3 000 |
| b) | |

| 2. Body Style | Road Load Power[1] (HP) |
|---|---|
| a) 190 E 2.3 | 7.7 |
| b) | |

| 3. Engine Code | Displacement ($cm^3$) |
|---|---|
| a) M102 | 2 299 |
| b) | |

| 4. Engine Code | Fuel Flow ($cm^3$/min) at max. rated torque |
|---|---|
| a) M102 | - |
| b) | |

| 5. Body Style | Transmission | Axle Ratio |
|---|---|---|
| a) 190 E 2.3 | 5-M | 3.23 |
| b) 190 E 2.3 | 4-A | 3.23 |

1) incl. 10% for A/C