

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-8-34  
Relating to Certification of New Motor Vehicles

BAYERISCHE MOTOREN WERKE 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 1985 model-year Bayerische Motoren Werke AG exhaust emission control systems are certified as described below for diesel-powered passenger cars:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
FBM2.4D6JAB6	149 (2.4)	Engine Modifications Exhaust Gas Recirculation (Diesel Injection - Prechamber)

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

The following are the emission standards for this engine family:

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per mile</u>	<u>Particulates Grams per Mile</u>
0.46	8.4	1.0	0.4

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

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>	<u>Particulates Grams per Mile</u>
0.13	0.9	0.8	0.3

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's 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 3<sup>rd</sup> day of December 1984

  
K. D. Drachand, Chief  
Mobile Source Division

Manufacturer BMW

Executive Order No. A-8-34

Engine Family FBM2.4D6JAB6

Evaporative Family not applicable

Engine CID (Liters) (2.4 l) 149

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 Emission 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
- EC-Electronic Control for Start of Injection

Special Features

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

Fuel System

- CFI, CL, DID, DIP, EFI, MFI
- nV-nVenturi Carburetor
- VV-Variable Venturi
- ITCU-Injection Timing Control Unit
- IP-Injection Pump
- FIN-Fuel Injection Nozzle

Vehicle Model: 524 td

DRIVE SYSTEM: Front engine, rear wheel drive

ISSUE DATE	REV.				SATISFACTORY	UNSATISFACTORY
5/15/84	DATE				DATE	NAME

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passengers Cars     Light-Duty Trucks     Medium-Duty Vehicles

Page 2

Gas     Diesel

E.O. No. A-8-34

Manufacturer BMW

Engine Family FBM2.4D6JAB6    CID (liter)-Type 2.4 - inline six cyl.

ECS (Special Features) EGR, DIP, TC, EC

Engine Code	Vehicle Models	Trans.	EGR Valve Part No.	Fuel System Part No.	Label Ident. Part No.
2.4D A4	524td	A4	1 285 112	DIP Injection pump: 2 240 300 Fuel injection nozzle: 1 279 105 1 284 076 Injection timing control unit: 2 240 418	2 121 509

Comments: See page 17 - 20 for abbreviations

ISSUE DATE	REV.				SATISFACTORY	UNSATISFACTORY
5/15/84	DATE				DATE	NAME



# ENGINEERING EMISSION CONTROL

Section 17.09.00.00 TEST VEHICLE REQUIREMENTS

Engine Family                      Engine Code                      Equiv. Test Weight                      Actual Road Load Power\*

FBM2.4D6JAB6                      2.4D A4                      3 500 lbs.                      8.6 HP (110%)

\* coast down value

ISSUE DATE	REV DATE					SATISFACTORY DATE	UNSATISFACTORY NAME
5/15/84							

8.2A

E.D. Rto. A-8-84