

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-8-26
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 1984 model-year Bayerische Motoren Werke 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>
EBM2.7V5FAB6	164.3 (2.7)	Three-Way Catalyst With Closed Loop (Electronic 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	0.4

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>
0.27	1.8	0.2

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 June, 1983.



K. D. Drachand, Chief
Mobile Source Control Division

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer BMW Executive Order No. A-8-26
 Engine Family EBM2.7V5FAB6 Evaporative Family EV 10
 Engine CID (Liters) 2.7 incline six cyl.

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
 EEC-Electronic Engine Control
 EI-Electronic Ignition
 ESAC-Electronic Spark Advance Control
 VA-Vacuum Advance
 VR-Vacuum Retard
 BMCU -Bosch Motronic Control Unit
 EID - Electronic Ignition Distributor

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 Valve
 CFI-Central Fuel Injection
 DID-Diesel Injection-Direct
 DIP-Diesel Injection-Prechamber
 MFI-Mechanical Fuel Injection
 TC-Turbocharged

Fuel System

CFI, CL, DID, DIP, EFI, MFI
 nV-nVenturi Carburetor
 VV-Variable Venturi
 FI-Fuel Injectors
 BMCU-Bosch Motronic Control Unit
 AFM-Air Flow Meter

Vehicle Model

528 e

DRIVE SYSTEM: Front engine, rear wheel drive

Issue Date: 05/25/83

ISSUE DATE	REV.				SATISFACTORY	UNSATISFACTORY
3/18/83	DATE				DATE	NAME

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer BMW E.O. # A-8-26

Engine Family EBM2.7V5FAB6 CID (liter) - Type 2.7 inline six cyl.

ECS (Special Features) TWC, CL (EFI)

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Ign. System	Fuel System	EGR Valve	Label Ident.
			Part No.	Part No.	Part No.	Part No.
2.7 M5 2.7 A3 2.7 A4	BMW 528e	M5 A3 A4	BMCU	<u>EFI</u>	N.A.	2 121 162
			0 261 200 007	BMCU		2 121 159
			EID	0 261 200 007		2 121 290
			1 235 522 365	AFM		
				0 280 202 029		
				FI		
			0 280 150 126			

Comments: See page 17-29 for abbreviations and evaporative emission family identification.

ISSUE DATE	REV.	7/22/83			SATISFACTORY	UNSATISFACTORY
3/18/83	DATE				DATE	NAME



ENGINEERING EMISSION CONTROL

E.O. # A-8-26

TEST VEHICLE REQUIREMENTS

Engine Family	Models	Equiv. Test Weight	Actual Road Load Power
EBM2.7V5FAB6	BMW 528e	3 250 lbs	9.5 HP (CD)
EBM3.2V5FAB6	BMW 533i **	3 500 lbs	7.9 HP (CD)
	BMW 633 CSI **	3 625 lbs	9.0 HP (CD)
	BMW 733i	3 750 lbs	11.0 HP (CD)

** applicable for Engine Code 3.2 A4

(CD) - Coast Down

ISSUE DATE	REV		SATISFACTORY	UNSATISFACTORY
3/18/83				
			DATE	NAME