State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-8-35 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 1986 model-year Bayerische Motoren Werke AG exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displacer Cubic Inches	ment (Liters)	Exhaust Emission Control Systems (Special Features)
GBM2.7V5FAB8	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 emission standards for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides			
Grams per Mile	Grams per Mile	Grams per mile			
0.41	7.0	0.7			

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

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides		
Grams per Mile	Grams per Mile	Grams per Mile		
0.31	2.5	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 1960.1.5 of Title 13, California Administrative Code which includes recall liability for 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 listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

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 regulations (Title 13, California Administrative Code, 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 26°

day of July, 1985.

K. D. Drachand, Chief Mobile Source Division

ARB Supplemental Data Sheets

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Manufacturer BMW Executive Order No. A-8-35

Engine Family GBM2.7V5FAB8 Evaporative Family EV 10

Engine CID (Liters) 2.7 1

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-Compustion
Chamber Valve
CFI-Central Fuel
Injection
DID-Diesel
InjectionDirect
DIP-Diesel
InjectionPrechamber

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 Models

BMW 528e

DRIVE SYSTEM: Front engine, rear wheel drive

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X Pass	enger Cars Li	ght-Outy	Trucks <u>Medium</u> -D	uty Vehicles	_X Gas	Diesel
Manu	facturer <u>BMW</u>			E.O.	A-8-35	·
Engi	ne Family <u>GBM2.7</u>	V5FAB8	CID (liter) - Type <u>2.7</u>	l - inline	six cyl.
ECS	(Special Features)	TWC,	CL (EFI)	· · · · · · · · · · · · · · · · · · ·	<u>.</u>	
Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Ign. Syst em	Fuel System	EGR Valve	Label Ident.
			Part No.	Part No.	Part No.	Part No.
2.7/5 M5 2.7/5 A4	BMW 528e	M5 — A4 —	BMCU 6 261 200 627 EID 1 235 522 365	EFI BMCU 0 261 200 027 AFM 0 280 202 066	n.a.	2 121 505 1 874 981
				FI 0 280 150 126		

Comments: See page 17-26 for abbreviations and evaporative emission family identification.

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