State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-9-28 Relating to Certification of New Motor Vehicles

BAYERISCHE MOTOREN WERKE A.G.

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 A.G. exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displace Cubic Inches		Exhaust Emission Control Systems (Special Features)
EBM2.7V5F308	164	(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":

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
Grams per Mile	Grams per Mile	Grams per Mile
0.41	7.0	0.4

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

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
Grams per Mile	Grams per Mile	Grams per Mile
0.34	2.9	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

day of December, 1983.

K. D. Drachand, Chief Mobile Source Division

Section 17.03.00

ARB Supplemental Data Sheets - 1984

Manufacturer BNY .	Executive Order No. A-9-29
Engine Family <u>EBM2.7Y5F308</u>	_ Evaporative FamilyEV 20
	Engine CID (Liters) 184(2.7)

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-Compusion
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
AFN - Air Flow Meter

Vehicle Models

BMW 325e

DRIVE SYSTEM: Front engine, rear wheel drive

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AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Engir	facturer <u>BMW</u> ne Family <u>EBM2.7V5F</u> (Special Features)		CID (liter) - Type (2.7)-	#A <u>-9-28</u> inline six cyl.	
.Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Ign. System Part No.	Fuel System Part No.	EGR Valve	Label Ident. Part No
			8MCU 0 261 200 021	<u>EFI</u> BMCU	n.a.	2 121 415 2 121 411
2.7-30 M5	DHIL OPE	M5	EID 1 235 522 365	0 261 200 021 AFM		2 121 290 1 874 981
2.7-30 A4	BMW 325e	A 4		0 280 202 029 FI		
				0 28 0 15 0 126		
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Comments: See page 17-29 for abbreviations and evaporative emission family identification

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ENGINEERING EMISSION CONTROL

TEST VEHICLE REQUIREMENTS

Engine Family	Engine Code	Equiv. Test Weight 3 000 lbs.	Actual Road Load Powe
EBM2,7V5F308	2.7-30 M5		8.7 hp
	2,7-30 A4	3 000 lbs.	9.5 hp

*coast down values

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