State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-8-33 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 gasoline-powered passenger cars:

Engine Family	Displac Cubic Inche		Exhaust Emission Control Systems (Special Features)
FBM3.4V5F57X	209	(3.4)	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 the above engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
Grams per Mile	Grams per Mile	Grams per Mile
0.23	1.8	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 1960.15 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 13th day of November, 1984.

K. D. Drachand, Chief Mobile Source Division

ARB Supplemental Data Sheets

Manufacturer BMW Executive Order No. A-8-33 Engine Family FBM3.4V5F57X Evaporative Family EV 30 Engine CID (Liters) 3.4 1

ABBREVIATIONS

Ignition System

Special Features

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

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

Fuel System

CL-Closed Loop

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

Exhaust Emission Control System

EGR-Exhaust Gas Recirculation

OC-Oxidation Catalyst System

TWC-Three Way Catalyst System

AIP-Air Injection-Pump

EM-Engine Modification

TR-Thermal Reactor

AIV-Air Injection-Valve

Vehicle Models: 535i, 635 CSi, 735i

DRIVE SYSTEM: Front engine, rear wheel drive

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ENGINEERING EMISSION CONTROL

TEST VEHICLE REQUIREMENTS

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Engine Family	Model Type	Equiv. Test Weight (lbs.)	Actual Road Load Power
FBM3.4V5F57X	5351	3 500	9.6
	5351A	3 625	9.6
	635 CS1	3 625	10.0
	635 CSiA	3 750	10.0
	7351	3 750	10.9
		3 875	11.4
	735iA	3 875	11.4

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Y Passengers Cars Light	-Duty Trucks Medium-Duty Vehicles
X GasDiesel	en e
Manufacturer BMW	E.O. A <u>-8-33</u>
Engine Family FBM3.4V5F57X	CID (liter)-Type 3.4 - inline six cyl
ECS (Special Features)	EFI, TWC, CL

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Ign.System Part No.	Fuel System Part No.	Label Ident. Part No.
			BMCU 0 261 200 059	<u>EFI</u> BMCU	2 121 558
3.4 M5	535i	M5	EID	0 261 200 059	
3.4 A4	635CSi 735i	A4	1 235 522 365	AFM	
				0 280 203 027 FI	
				0 280 150 203	

Comments: See page 17-30 for abbreviations and evaporative emission family identification –

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