State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-8-40
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 1987 model-year Bayerische Motoren Werke AG exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displacement Cubic Inches (Liters)		Exhaust Emission Control Systems (Special Features)
HBM3.4V5F571	207	(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 Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per mile
0.41	3.4	0.7

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

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0.24	2.4	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 3rd day of April, 1986.

Bob Crosslow for

K. D. Drachand, Chief
Mobile Source Division

Section 17.03.00 ARB Supplemental Data Sheets

Manufacturer BMW

Engine Family HBM3.4V5F571

Executive Order No. A-8-40

Evaporative Family EV 30

Engine CID (Liters) 3.4 l

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 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

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 Caburetor
VV-Variable Venturi
FI-Fuel Injection Valves
BMCU-Bosch Motronic Control Unit
AFM-Air Flow Meter

Vehicle Models: 535i, 535is, L 6, 735i, L7

DRIVE SYSTEM: Front engine, rear wheel drive

ISSUE DATE 12/5/85	REV.	8/29/86	10/31/86			SATISFACTORY	UNSATISFACTORY
	DATE				DATE	NAME	

L6 replacing 635 CSi

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

X Passengers Cars ___ Light-Duty Trucks ___ Medium-Duty Vehicles

X Gas ___ Diesel

Manufacturer BMW E.O. A-8-40

Engine Family HBM3.4V5F571 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	EFI	2 121 558
			0 261 200 059	BMCU	
3.4 M5	535i, is 635CSi	M5	EID	0 261 200 059	
3.4 A4/EH	735i, L7	A4	1 235 522 365	AFM	
				0 280 203 027	
				FI	
				0 280 150 203	

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

Add 535is

ISSUE DATE	REV.	8/29/86			SATISFACTORY	UNSATISFACTORY
12/5/85	DATE				DATE	NAME

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				FI	
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ISSUED: 04088.

ENGINEERING EMISSION CONTROL

TEST VEHICLE REQUIREMENTS

Engine Family	Model Type	Equiv. Test Weight (lbs.)	Actual Road Load Power (hp)
HBM3.4V5F571	5351	3 500	9.6
	5351A	3 625	9.6
	635 CS1	3 625	10.0
	635 CS1A	3 750	10.0
	7351	3 875	11.4
	7351A, L7	3 875	11.4

(automatic transmission: Economy Position)

E.O. 4-8-40

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12/5/85	DATE				DATE		NAME	