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State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-8-50
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 1988 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 Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
JBM5.0V5F67X	5.0 (304.4)	Dual Heated Oxygen Sensors Dual Three-Way Catalysts (Electronic Port 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:

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per mile</u>
0.41	7.0	0.7

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

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.32	2.4	0.2

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 1988 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 the vehicle models listed have been granted an exemption from compliance with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s] ..." (Title 13, California Administrative Code, Section 1968) 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 6th day of October, 1987.


K. D. Drachand, Chief
Mobile Source Division



ENGINEERING EMISSION CONTROL

17-30

Section 17.03.00

ARB SUPPLEMENTAL DATA SHEET

EO # A-8-50

Manufacturer BMW

Engine Family JBM5.OV5F67X

Evaporative Family EV 50

Engine Type 4 cycle, V-60°

Liters (CID) 5.0 (305.1)

ABBREVIATIONS

Ignition System

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

Exhaust Emission Control System

AIP-Air Injection-Pump
 AIV-Air Injection-Valve
 DBC-Dual Bed Catalyst
 EGR-Exhaust Gas Recirculation
 EIC-Electronic Injection Control
 EM-Engine Modification
 OC-Oxidation Catalyst
 OS-Oxygen Sensor
 HOS-Heated Oxygen Sensor
 SPL-Smoke Puff Limiter or Throttle Delay
 TOC-Trap Oxidizer, Continual
 TOP-Trap Oxidizer, Periodical
 TWC-Three Way Catalyst
 WUOC-Warm-Up Oxidation Catalyst
 WUTWC-Warm-Up Three-Way Catalyst

Special Features

CCV-Combustion Chamber Valve
 CFI-Central Fuel Injection or Throttle Body Injection
 DID-Diesel Injection-Direct
 DIP-Diesel Injection-Prechamber
 EFI-Electronic Fuel Injection
 IC-Intercooler or Aftercooler
 MFI-Mechanical Fuel Injection
 OBD-On Board Diagnostic
 TC-Turbocharger

Fuel System

CFI, CL, DID, DIP, EFI, MFI
 nV-nVenturi Carburetor
 FI-Fuel Injection Valves
 BMCU-Bosch Motronic Control Unit
 AMM-Air Mass Meter

Vehicle Model(s): BMW 750i

DRIVE SYSTEM: Front engine, rear wheel drive

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ENGINEERING EMISSION CONTROL

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AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passengers Cars Light-Duty Trucks Medium-Duty Vehicles

Gas Diesel E.O. A-8-50

Manufacturer BMW Engine Family JBM5.OV5F67X

Liter (CID) 4 988 cm Eng. Type 5.0/7 A4

ECS (Special Features) 2 TWC, HOS, EIC (EFI) (OBD Exempt)

Engine Code	Vehicle Model(s)	Trans. Type	Equiv. Test Weight	Ign. System Part No.	Fuel System Part No.	Catalyst Part No.
5.0/7 A4	BMW 750i	autom.	4 500 lbs.	BMCU	BMCU	1 711 661
				0 261 200 156	0 261 200 156	1 711 662
				EID 1 235 522 365 1 235 522 421	AMM 0 280 212 010	
				FI 0 280 150 715		

Comments: See the preceding page for abbreviations and evaporative emission family identification.
For dyno test HP settings refer to the test vehicle requirement list.

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ENGINEERING EMISSION CONTROL

TEST VEHICLE REQUIREMENTS

Engine Family	Model Type	Equiv. Test Weight (lbs.)	Actual Road Load Power (hp)
JBM5.OV5F67X	750i	4500	8.2

(automatic transmission: economy program)

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ENGINEERING EMISSION CONTROL

20-27

ED # A-8-50

Section 20.07.00 PARTS LIST

Part Number

Ignition System

Distributor	1 235 522 365
	1 235 522 421
Spark plug	F8 LCR
Ignition coil	0 211 118 335
	0 221 502 397
	2051.0171.101

Fuel Injection System

Motronic control unit	0 261 200 156
EML-control unit	1 137 328 019
Air mass meter	0 280 212 010
Temperature sensor	0 280 130 056
Fuel injection valves	0 280 150 715
Fuel pressure regulator	0 280 160 500
Servo motor including	
Throttle valve potentiometer	1 713 906

Exhaust System

Catalyst	1 711 661
	1 711 662
Heated oxygen sensors	0 258 003 062

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