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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-8-45 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>	Displacement		Exhaust Emission Control Systems		
JBM3.5V5FMS4	Liters (Cubic Inches)		(Special Features)		
JBM3.5V5FMS4	3.5	(210.7)	Dual Three-Way Catalysts Heated Oxygen Sensor (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	<u>Grams per Mile</u>	<u>Grams per mile</u>
0.41	7.0	0.7

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

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
<u>Grams per Mile</u>	Grams per Mile	<u>Grams per Mile</u>
0.27	2.3	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.

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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 listed vehicle models 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.) and with Health and Safety Code Section 43204.

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 16^{47} day of March, 1987.

K. D. Drachand, Chief Mobile Source Division

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1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. # <u>A-8-45</u>

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Manufacturer	Bayerische Motoren Werke AG	Engine Family _	JBM3.5V5FMS4
Evaporative	Family EV30	Engine Type	In-line 6
		Liters (CID)	3.5 (210.7)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance EEC-Electronic Engine Control EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard

Fuer System

CFI, CL, DID, DIP, EFI, MFI nV-nVenturi Carburetor

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 SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical 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 EFI-Electronic Fuel Injection IC-Intercooler or aftercooler MFI-Mechanical Fuel Injection **TC-Turbocharger**

VEHICLE MODELS:

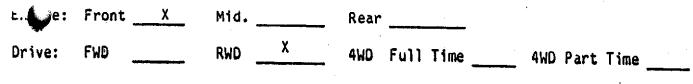
Engine Code

3.5MS

<u>Vehicle Model</u> M5 M6

<u>Transmission</u>

5-Speed Manual



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á.	19_88 AIR RESOURCES	BOARD SUPPLEMENTAL DATA SHEET
Passenger Car	s X Light-Duty Trucks	BUARD SUPPLEMENTAL DATA SHEET Page 2 Medium-Duty VehiclesGas _XDiesel
Manufacturer		Engine Family
Liter (CID) _	3.5 (210.7)	Eng. Type In-line 6
Emission Cont	rol Sys. (Special Features)	DTWC, HOS, (EFI)

Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. Test Weight	Ign. System (ECU)	Fuel System EFI	EGR Valve	Catalys
	(Dyno Hp)			Part No.	Part No.	Part No.	Part No.
3.5MS	M5 (9.6)	M5	3,750	Control Unit: 0261200079	Control Unit: 0261200079	NA	1309648
	M6 (9.3)		3,875	Distributor: 1235522365	Air Flow Meter: 0280203025		
					Injector: 0280150201	. :	
		:	•				
:							
imments: Prse refe Nort.	See page one for er to manufacture If two test wel	abbrevia r's HP 11 ghts are	tions and st for co listed, t	evaporative er rrect dyno test he lower weight	nission family t HP settings t will be used	identificat based on mod for testing	ion. lel and