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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-8-48 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:

Engine Family		splacement (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
JBM3.4V5F575	3.4	(209.3)	Three-Way Catalyst 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	Grams per Mile	<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		
Grams per Mile	<u>Grams per Mile</u>	<u>Grams</u> per Mile		
0.22	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.

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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 $2 \mathcal{P}^T$ day of April, 1987.

K. D. Drachand, Chief Mobile Source Division

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E.O. # A-8-48 198 8 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page 1 facturer _____Bayerische Motoren Werke AG JBM3.4V5F575 Engine Family Inline, 6-cylinder EV40 Engine Type ____ Evaporative Family Liters (CID) 3.4 (209.3) ABBREVIATIONS Exhaust Emissions Control System Special Features Ignition System CA-Centrifugal Advance AIP-Air Injection-Pump CCV-Combustion AIV-Air Injection-Valve Chamber Valve ECU-Electronic Control Unit CFI-Central Fuel DBC-Dual Bed Catalyst EI-Electronic Ignition ESAC-Electronic Spark Advance EGR-Exhaust Gas Recirculation Injection or EIC-Electronic Injection Control Throttle Body Control VA-Vacuum Advance **EM-Engine Modification** Injection DID-Diesel VR-Vacuum Retard OC-Oxidation Catalyst OS-Oxygen Sensor Injection-HOS-Heated Oxygen Sensor Direct SPL-Smoke Puff Limiter or DIP-Diesel Throttle Delay Injection-TOC-Trap Oxidizer, Continual Prechamber TOP-Trap Oxidizer, Periodical EFI-Electronic TWC-Three-Way Catalyst Fuel WUOC-Warm-Up Oxidation Catalyst System Injection WUTWC-Warm-Up Three-Way Catalyt IC-Intercooler CFI, CL, DID, DIP, EFI, MFI or Aftercooler MFI-Mechanical nV-nVenturi Carburetor Fuel Injection OBD-On-Board Diagnostics TC-Turbocharger VEHICLE MODELS: Transmission Vehicle Model Engine Code M5 535i, 535is 3.4 M5 Α4 3.4 A4/EH 535i, 535is Front X Mid. Rear Ine:

X

RWD

4WD Full Time

4WD Part Time

111586

Drive:

FWD

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		S BOARD SUPPLEMENTAL DA	v Page ²
Passenger Car	s <u>X</u> Light-Duty Trucks	Medium+Duty Vehicle	es Gas _^_ Diesel
Manufacturer	Bayerische Motoren Werke AG	Engine Family	JBM3.4V5F575
•	3.4 (209.3)	Eng. Type	Inline, 6-cylinder
Emission Cont	rol Sys. (Special Features)	TWC/HOS/(EFI)	

Engine Code	Vehicle Models (If Coded see attachment)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) Part No.	Fuel System Part No.	EGR Valve Part No.	Catalys Part No.
	(Dyno Hp)		·				
.4 M5	535i, 535is (10.0)	M5	3,625	Electronic Control Unit: 0261200059	Electronic Control Unit: 0261200059	NA	1289266
.4 A4/EH	535i, 535is (9.6)	A4		Distributor: 1235522365	Air Flow Meter: 0280203027		
					Fuel Injector: 0280150714 0280150900		
			- -				
						1	

Date of Issue ____

Revisions: