State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-8-47 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	Displacement Liters (Cubic Inches)		Exhaust Emission Control Systems (Special Features)	
JBM2.3V5FMS6	2.3	(140.5)	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	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>	Grams per Mile	
0.29	2.2	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 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 vear.

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. 20 6

Executed at El Monte, California this

K. D. Drachand, Chief Mobile Source Division

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Ma_acturer Bayerische Motoren Evaporative Family EV40	Engine Type	Inline, 4-cy	-cylinder	
	Liters (CID)	2.3 (140.5)		
ABBREVIATIONS			•	
Ignition System	Exhaust Emissions Contro	1 System	Special Features	
CA-Centrifugal Advance ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard F System	AIP-Air Injection-Pump AIV-Air Injection-Valve DBC-Dual Bed Catalyst EGR-Exhaust Gas Recircul EIC-Electronic Injection EM-Engine Modification OC-Oxidation Catalyst OS-Oxygen Sensor HOS-Heated Oxygen Sensor SPL-Smoke Puff Limiter of Throttle Delay TOC-Trap Oxidizer, Cont TOP-Trap Oxidizer, Perior TWC-Three-Way Catalyst WUOC-Warm-Up Oxidation	r or inual odical	CCV-Combustion Chamber Valve CFI-Central Fuel Injection or Throttle Body Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic Fuel Injection	
CFI, CL, DID, DIP, EFI, MFI	WUTWC-Warm-Up Three-Way		IC-Intercooler or Aftercooler	
nV-nVenturi Carburetor		· · · · · · · · · · · · · · · · · · ·	MFI-Mechanical Fuel Injection OBD-On-Board Diagnostics TC-Turbocharger	
VEHICLE MODELS:			•	
Engine Code	Vehicle Model		<u>Transmission</u>	
2.3 MS	M3		M5	

Engine:	Front X	Mid.	Rear	
Drive:	FWD	RWD X	4WD Full Time 4WD Part Ti	me

	Cars X Lighterer Bayerische Mo						esel
				Eng.			
Emission (Control Sys. (Spec						
Engine Code	Vehicle Models (If Coded see	Trans. Type	Equiv. Test	Ign. System (ECU)	Fuel System	EGR Valve	Catalyst
	attachment) (Dyno Hp)		Weight	Part No.	Part No.	Part No.	Part No.
2.3 MS	M3 (6.2)	M5	3,125	Electronic Control Unit: 0261200071	Electronic Control Unit: 9261200071	NA	1308716
U				Distributor: 1235522406	Air Flow Meter: 0280203028	·	
					Fuel Injector: 0280150201		
						,	
Please ref	See page one for fer to manufacture . If two test we	er's HP l	ist for c	orrect dyno te:	st HP settings	based on mo	ide I and