State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-8-119
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 Order G-45-9;

IT IS ORDERED AND RESOLVED: That 2000 model-year Bayerische Motoren Werke AG exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type: Gasoline

Engine Family: YBMXV02.8LEV Displacement: 2.8 Liters (170.4 Cubic Inches)
2.5 Liters (152.2 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Dual Three Way Catalytic Converters
Dual Heated Oxygen Sensors (two)
Sequential Multiport Fuel Injection
Secondary Air Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The LEV certification exhaust emission standards for this engine family in grams per mile are:

Miles	Non-Methane Organic Gas	Carbon Monoxide	Nitrogen Oxides	Formaldehyde	Carbon Monoxide (20°F)
50,000	0.075	3.4	0.2	0.015	10.0
100,000	0.090	4.2	0.3	0.018	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.94

The certification exhaust emission values set forth for non-methane organic gas (NMOG) reflect application of a 0.94 RAF for 2000 model-year LEVs. The LEV certification exhaust emission values for this engine family in grams per mile are:

Miles	Non-Methane Organic Gas	Carbon Monoxide	Nitrogen Oxides	Formaldehyde	Carbon Monoxide (20°F)
50,000	0.030	0.6	0.1	0.0003	2.8
100,000	0.032	0.6	0.1	0.0003	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average NMOG exhaust mass. emission requirements as set forth 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 under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the "California Refueling Emission Standards and Test Procedures for 1998 and Subsequent Model Motor Vehicles," Title 13, California Code of Regulations, Section 1978, and the listed vehicle models comply with those standards.

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" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, 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 Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.2) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

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 provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

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 April 1999.

R. B. Summerfield, Chief
Mobile Source Operations Division

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2000 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT DUTY TRUCKS AND MEDIUM DUTY VEHICLES

Manufacturer : BMW **Exh. Engine Family :** YBMXV02.8LEV **Evap. Fam:** YBMXR0136E46
All Eng Codes in Eng Fam: CA ___ 49S ___ 50S X AB965 ___ ORVR: YES X NO ___
Exh Std: CA Tier-1 ___ TLEV ___ LEV X ULEV ___ SULEV ___ ; US EPA NLEV X
Veh Class: PC X LDT1 ___ LDT2 ___ MDV1 ___ MDV2 ___ MDV3 ___ MDV4 ___ MDV5 ___
Single Cert Std for Multi - Class Eng Fam: N/A
Fuel Type (s): Dedicated X Flex-Fuel ___ Dual Fuel ___ Bi - Fuel ___ Gasoline X Diesel ___
CNG ___ LNG ___ LPG ___ M85 ___ Other (specify) ___
Emiss Test Fuel (s): Indo ___ CBG X CNG ___ LPG ___ M85 ___ Other (specify) ___
Diesel: 13 CCR 2282 ___ 40 CFR86.113-90 ___ 40 CFR86.113-94 ___
Evaporative Test Procedure: California ___ Federal X
Service Accum: Std AMA ___ Mod AMA ___ Mfr ADP X Other (specify) ___
NMOG Test Procedure: N/A ___ Std ___ Equiv X **R/L Test Proc:** SHED X Pt Source ___
Hybrid: Type A ___ B ___ C ___ , APU Cycle (e.g., Otto, Diesel, Turbine) ___
Engine Configuration: inline-6 **Displacement:** 2.5 Liters 152.2 Cubic Inches
2.8 Liters 170.4 Cubic Inches
Valves per Cylinder: 4 **Rated HP:** 170 @ 5 500 RPM
193 @ 5 300 RPM
Engine: Front X Mid ___ Rear ___ **Drive:** FWD ___ RWD X 4WD-FT ___ 4WD-PT ___
Exhaust ECS: 2TWC, 2HO2S(2), SFI, AIR

Engine Code (50 ST)	Vehicle Models	Trans. Type	ETW (lbs.)	DPA or RLHP (hp)	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
2.5-LEV	Z3	M5	3 250	7.6	OBD	n.a.	1 732 953 left
	323i, Ci	M5	3 500	6.9	Software		1 732 955 right
2.5-A-LEV	Z3 A	L4	3 250	7.6	Identificat.		
	323iA, CiA	L5	3 500	6.9			
2.8-LEV	Z3	M5	3 250	7.6	see		
	Z3 Coupe	M5	3 250	7.0	page 20-16		
	328i, Ci	M5	3 500	6.9			
	528iT	M5	4 000	7.4			
2.8-A-LEV	Z3 A	L4	3 250	7.6			
	Z3Coupe A	L4	3 375	7.0			
	328iA, CiA	L5	3 500	6.9			
	528iAT	L5	4 000	6.8			

ISSUE DATE
12/18/98

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2000 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT DUTY TRUCKS AND MEDIUM DUTY VEHICLES

Manufacturer : BMW **Exh. Engine Family :** YBMXV02.8LEV **Evap. Fam:** YBMXR0160E39
All Eng Codes in Eng Fam: CA ___ 49S ___ 50S X AB965 ___ **ORVR:** YES X NO ___
Exh Std: CA Tier-1 ___ TLEV ___ LEV X ULEV ___ SULEV ___ ; US EPA NLEV X
Veh Class: PC X LDT1 ___ LDT2 ___ MDV1 ___ MDV2 ___ MDV3 ___ MDV4 ___ MDV5 ___
Single Cert Std for Multi - Class Eng Fam: N/A
Fuel Type (s): Dedicated X Flex-Fuel ___ Dual Fuel ___ Bi - Fuel ___ Gasoline X Diesel ___
CNG ___ LNG ___ LPG ___ M85 ___ Other (specify) ___
Emiss Test Fuel (s): Indo ___ CBG X CNG ___ LPG ___ M85 ___ Other (specify) ___
Diesel: 13 CCR 2282 ___ 40 CFR86.113-90 ___ 40 CFR86.113-94 ___
Evaporative Test Procedure: California ___ Federal X
Service Accum: Std AMA ___ Mod AMA ___ Mfr ADP X Other (specify) ___
NMOG Test Procedure: N/A ___ Std ___ Equiv X **R/L Test Proc:** SHED X Pt Source ___
Hybrid: Type A ___ B ___ C ___ , APU Cycle (e.g., Otto, Diesel, Turbine) ___
Engine Configuration: inline-6 **Displacement:** 2.8 Liters 170.4 Cubic Inches
Valves per Cylinder: 4 **Rated HP:** 193 @ 5 300 RPM
Engine: Front X Mid ___ Rear ___ **Drive:** FWD ___ RWD X 4WD-FT ___ 4WD-PT ___
Exhaust ECS: 2TWC, 2HO2S(2), SFI, AIR

Engine Code (50 ST)	Vehicle Models	Trans. Type	ETW (lbs.)	DPA or RLHP (hp)	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
2.8-LEV	528i	M5	3 750	7.1	OBD Software Identificat. see page 20-16	n.a.	1 732 953 left 1 732 955 right
2.8-A-LEV	528iA	L5	3 875	6.7			