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#### State of California AIR RESOURCES BOARD

### EXECUTIVE ORDER A-8-93 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 1995 model-year Bayerische Motoren Werke AG exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: SBM1.8VHGFEA Displacement: 1.8 Liters (109.6 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Three Way Catalytic Converter Heated Oxygen Sensor Multiport Fuel Injection

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

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

Miles	Non-Methane	Carbon	Nitrogen
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>
50,000	0.25	3.4	0.4
100,000	0.31	4.2	n/a

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

<u>Miles</u>	Non-Methane	Carbon	Nitrogen
	<u>Hydrocarbons</u>	<u>Monoxide</u>	_Oxides
50,000	0.12	1.5	0.2
100,000	0.12	1.7	n/a

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 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 non-methane organic gas (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 50,000-mile evaporative emission standards applicable to 1980 through 1994 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, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

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 Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles with Three-Way Catalyst Systems and Feedback Control" (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models have been exempted from compliance with the "Malfunction and Diagnostic System Requirements-1994 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles and Engines" pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(2.0) 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 provisions (Title 13, California Code of Regulations, 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 29 day of September, 1994.

R. B. Summerfield

Assistant Division Chief Mobile Source Division



## **ENGINEERING EMISSION CONTROL**

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E.O.# A-8-93

# 1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT DUTY TRUCKS AND MEDIUM DUTY VEHICLES

Manufacturer:					_ Exh Engine Family : _SBM1.8VHGFEA						
Evap Std: 50K	X Us	eful Life w	ith R/L		Evan Engine Esp	حاله	MACOEDVEDO	-			
EXh Std: Tier-0 Tier-1 X TIEV IEV JULEY 750											
Veh Class(es):	PC X LDT	T LDŤ	2 1	NDV1	MDV2 MDV	3 MDV	NDV6				
Single Cert Std	Veh Class(es): PC X LDT1 LDT2 MDV1 MDV2 MDV3 MDV4 MDV5  Single Cert Std for Multi - Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)  Exh Cert Fuel (s): Indo X Rh2										
Exh Cert Fuel (s): Indo X Ph2 Diesel: 13 CCR 2282 or 40 CERS 113 CCR 200											
Exh Cert Fuel (s): Indo X Ph2 Diesel: 13 CCR 2282 or 40 CFR86.113-90 or -94  M85 CNG LPG Other (specify)  Fuel Type (s): Dedicated Flex-Fuel Diesel: 13 CR 2282											
rex-rider Dual Fuel Gasoline X Diesel Mas											
CNG LNG LPG Other (specify)  Hybrid: Type A B C , APU Cycle (e.g., Otto, Diesel, Turbine)											
Hybrid: Type	а в с	AP	II Cycle	LA A OH	O Diocal Turbinal			-			
Engine Configu	ration: 1-4	Disp	lacemen	t: <u>1.</u> -	8l Liters	109.6	Cubic Inches	-			
ngine: Front	X Mid Re	ear	Drive:	FWD	RWD X 4W	/D-FT	4WD-PT				
Exnaust ECS:	TWC, HO2S, I	MFI			8l Liters RWD X 4W	<del></del>		-			
						0	BPZ Exempt	•			
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Engine	Mohinla	<b> </b>						١			
Code	Vehicle	Trans.	ETW	DPA	Ignition	EGR	Catalytic	l			
	Models	Туре	(lbs.)	or	(ECM/PCM)	System	Converter	ı			
(50 ST)			,	RLHP	Part No.	Part No.	Part No.	ŀ			
				(hp)				l			
1.8/T1 M5	2404	1.45						l			
1.0/11 100	318ti	M5	3 000	6.8	ECM		1 737 153	ĺ			
1.8/T1 M5	318i,is	845	0.050		0 261 203 282		1 728 588	ĺ			
1.0,11110	3101,18	M5	3 250	6.5	0 261 203 357			l			
1.8/T1 A4	318tiA	A4	3 125	60							
		^4	3 123	6.8		İ					
1.8/T1 A4	318iA, isA	A4	3 375	6.5							
	0,00,1,10,1		3 3/3	0.5			:	İ			
1.8/T1/C M5	318iC	M5	3 375	6.6		i		ļ			
	01010	1013	33/3	0.6							
1.8/T1/C A4	318iAC	A4	3 500	6.6							
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