

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-8-9
Relating to Certification of New Motor Vehicles

BAYERISCHE MOTOREN WERKE

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Sections 43100, 43102, 43103, and 43835; 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 Bayerische Motoren Werke exhaust emission control systems for 1978 model-year passenger cars are certified for the vehicles described below:

- Engine Family: 133.8
- Engine: 196 CID
- Transmission: 3-speed automatic and 4-speed manual
- Exhaust Emission Control Systems: Electronic Fuel Injection, Air Injection, Exhaust Gas Recirculation, Thermal Reactor

Models and Engine Codes as listed in attachment.

The following are the recommended values to be listed on the window decal required by California Assembly-Line Test Procedures for 1978 model-year vehicles:

<u>Engine Family</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
133.8	0.32	6.9	1.2

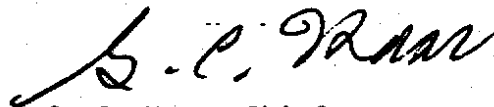
BE IT FURTHER RESOLVED: That the above models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (13 California Administrative Code, Section 2290) for the aforementioned model year, or have been granted a temporary exemption from the aforementioned "Specifications" by Executive Order AA-8 series.

BE IT FURTHER RESOLVED: That the above models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-powered Motor Vehicles except Motorcycles".

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Department of Motor Vehicles, the California Highway Patrol, and the Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California, this 27 day of September, 1977.



G. C. Hass, Chief
Vehicle Emissions Control Division

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Bayerische Motoren Werke Executive Order No. 8-9 Page 1
 Engine Family 133.8 Engine (CID) 196

ABBREVIATIONS

<u>Distributor</u>	<u>Exhaust Emissions Control System</u>	
C-Centrifugal Advance	AI-Air Injection	OC-Oxidation Catalyst
V-Vacuum Advance	CAI-Catalyst Air Injection	PAI-Pulse Air Injection
VR-Vacuum Retard	CAB-Chamber Air Bleed	RC-Reduction Catalyst
HEI-High Energy Ignition	DD-Dual Displacement	TC-Turbo Charged
EI-Electronic Ignition	EFI-Electronic Fuel Injection	TR-Thermal Reactor
<u>Fuel System</u>	EGR-Exhaust Gas Recirculation	TWC-Three Way Catalyst
EFI, FI	EM-Engine Modification	(Feedback Control)
nV-nVenturi Carburetor	EFE-Early Fuel Evaporation	<u>EGR Syst. Service</u>
VV-Variable Venturi	ESAC-Electronic Spark Advance	I-Inspect, repair/replace
	Control	as needed
	FI-Fuel Injection	R-Replace

Models:

BMW 633 CSi	}	racer 2-door coupe
BMW 633 CSiA		
BMW 733i	}	traveler 4-door sedan
GMW 733iA		

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars Light-Duty Trucks Medium Duty Vehicles

Manufacturer Bayerische Motoren Werke Executive Order No. 8-9 Page 2

Engine Family 133.8 Engine (CID) 196 Engine Code

Emission Control System EFI-EGR-TR-AI +10%(A/C) Yes No

Eng. Code	Vehicle Models (If Coded see attachment)	Trans	Inertia Weight Class	Distributor Type <small>C, V, VR**</small>	Fuel System Type <small>EFI</small>	EGR System	Tune-Up Specification
				Mfgr. Part Number	Mfgr. Part Number	Part No. Service	(1) Basic Timing (2) Idle Mixture (3) Idle Speed
133.8 C	BMW 633CSi 733i	M4	4000	Bosch 0 237 304002	Bosch Electronic Control Unit 0 280 001 111	PE 20282 I 12500	1. 22° + 1° BTDC @ 2750 RPM in neutral vac. retard** disconnected
133.8 CA	633CS1A 7331A	A3			Bosch Air Flow Meter 0 280 203 004		2. 2 + 1/-0.5% W/O air injection 3. 950 ± 100 RPM neutral

Comments: No models have special road load HP settings.
See page 1 for abbreviations and model codes. * manual transmission only

Date of Issue Revisions: ** 5-3-78 errata corrected