E.O. Book

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-8-7
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: 120.8
Engine: 121.3 CID
Transmission: 3-speed automatic and 4-speed manual
Exhaust Emission Control Systems: Continuous 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:

Engine Family	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
120.8	0.26	5.0	1.1

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

G. C. Hass, Chief
Vehicle Emissions Control Division

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Bayerische Motoren Werke Executive Order No. 8-7 Page 1

Engine Family 120.8 Engine (CID) 121.3

ABBREVIATIONS

Distributor
C-Centrifugal Advance
V-Vacuum Advance
VR-Vacuum Retard
HEI-High Energy Ignition
EI-Electronic Ignition

Fuel System
EFI, FI
nV-nVenturi Carburetor
VV-Variable Venturi

Exhaust Emissions Control System
AI-Air Injection
CAI-Catalyst Air Injection
CAB-Chamber Air Bleed
DD-Dual Displacement
EFI-Electronic Fuel Injection
EGR-Exhaust Gas Recirculation
EM-Engine Modification
EFE-Early Fuel Evaporation
ESAC-Electronic Spark Advance Control
FI-Fuel Injection
OC-Oxidation Catalyst
PAI-Pulse Air Injection
RC-Reduction Catalyst
TC-Turbo Charged
TR-Thermal Reactor
TWC-Three Way Catalyst (Feedback Control)

EGR Syst. Service
I-Inspect, repair/replace as needed
R-Replace

Models:

BMW 320i
BMW 320iA 2-door Sedan

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

☒ Passenger Cars ☐ Light-Duty Trucks ☐ Medium Duty Vehicles

Manufacturer Bayerische Motoren Werke Executive Order No. 8-7 Page 2

Engine Family 120.8 Engine (CID) 121.3 Engine Code

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

Eng. Code	Vehicle Models (If Coded see attachment)	Trans	Inertia Weight Class	Distributor Type C,V*,** VR Mfgr. Part Number	Fuel System Type CFI Mfgr. Part Number	EGR System Part No. Service	Tune-Up Specification (1) Basic Timing (2) Idle Mixture (3) Idle Speed
120.8 C	320 i	M-4	2750	Bosch 0231 176 084**	Bosch Mixture Control Unit 0 438 040 027, which includes 0 438 100 023 Fuel Distributor & 0 438 120 039 Air Flow Sensor Warm-up Regulator 0 438 140 014	PE 20279 I 12500	1. 25±1 Deg. BTDC @ 2400 RPM in Neutral Vacuum retard disc.* 2. 2.5-3.5% w/o air injection. 3. 950±100 RPM in neutral.
120.8 CA	320 iA	A-3					

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