

A. C. Hass

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-8-6  
Relating to Certification of New Motor Vehicles

BAYERISCHE MOTOREN WERKE AG

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102, and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That Bayerische Motoren Werke AG exhaust emission control systems for 1977 model-year passenger cars are certified for the engine family described below:

Engine Family: 120.8  
Engine: 121.3 CID  
Transmission: 3-Speed Automatic, 4-Speed Manual  
Exhaust Emission Control Systems: Engine Modification, Continuous Fuel Injection, Exhaust Gas Recirculation, Thermal Reactor, Air Injection

Model: BMW 320 i (manual)  
BMW 320 iA (automatic)

The following are the recommended values to be listed on the window decal required by California Assembly-Line Test Procedures for 1977 model 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>
120.8	.32	8.5	1.1

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 19<sup>th</sup> day of October, 1976.

*G. C. Hass by P. W. Bachman*  
G. C. Hass, Chief  
Division of Vehicle Emissions Control

Manufacturer Bayerische Motoren Werke AG Executive Order No. A-8-6 Page 1

Engine Family 120.8 Engine (CID) 121.3 Engine Code 120.8/8A

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

Vehicle Models (If Coded see attachment)	Trans	Inertia Weight	Distributor Type CVR 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
320 i 320 iA	M-4 A-3	2750	Bosch 0 231 170 214	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 -----	P20279 I 12500	See attached table 1. 25+1 Deg. BTDC @ 2400 RPM in Neutral, Vacuum Adv. Disconnected 2. 2.5-3.5% w/o air injection. 3. 950+100 RPM in neutral.  Label shown on Page 2.

Comments

Date of Issue : Clarified 4 May 1977

**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 Emission Control System

AI-Air Injection  
CAI-Catalyst Air Injection  
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  
TR-Thermal Reactor  
TWC-Three Way Catalyst  
λ-Air Fuel Ratio Sensor  
\*Service  
I-Inspect, repair/replace as needed  
R-Replace