

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-8-75
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 1992 model-year Bayerische Motoren Werke AG exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: NBM2.5V5F500 Displacement: 2.5 Liters (152 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Heated Oxygen Sensor
Three-Way Catalyst
Multipoint Electronic Fuel Injection

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

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

| <u>Hydrocarbons</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> |
|---------------------|------------------------|------------------------|
| 0.39 | 7.0 | 0.4 |

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

| <u>Hydrocarbons</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> |
|---------------------|------------------------|------------------------|
| 0.16 | 1.7 | 0.2 |

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

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" (Title 13, California Code of Regulations, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards 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" (Title 13, California Code of Regulations, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Code of Regulations, Section 1968) 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 5th day of August, 1991.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division



ENGINEERING EMISSION CONTROL

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Section 17.03.00

1992 ARB SUPPLEMENTAL DATA SHEET

Manufacturer BMW Engine Family NBM2.5V5F500
Evaporative Family EV 70 Engine Type 4-cycle, inline
Liters (CID) 2.5 l (152.3 cu.in.)

ABBREVIATIONS

Ignition System

ECU-Electronic Control Unit
EI-Electronic Ignition

Exhaust Emission Control System

TWC-Three Way Catalyst
HO2S-Heated Oxygen Sensor

Special Features

OBD-On Board Diagnostics

Fuel System

MPI-Multipoint Electronic Fuel Injection

Vehicle Model(s): BMW 525i

DRIVE SYSTEM: Front engine, rear wheel drive



ENGINEERING EMISSION CONTROL

1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. A8-75

Manufacturer BMW Engine Family NBM2.5V5F500

Passenger cars X Light Duty Trucks Medium Duty Vehicles

Fuel Type GAS

Engine Conf. I - 6 Liter (CID) 2.5 l (152.3 cu. in)

Evap. Family EV 70

Emission Control Systems & Special Features TWC, HO2S, MPI

Engine: Front X Mid. Rear Drive: FWD RWD X 4WD-FT 4WD-PT

| Engine Code | Vehicle Model(s) | Trans. Type | Equiv. Test Weight | RLHP | Ignition System Part No. | Catalyst Part No. |
|-------------|------------------|-------------|--------------------|------|--------------------------|-------------------|
| 2.5/50 A4 | 525i | A 4 | 3 875 | 7.2 | BMCU 1 730 156 | 1 728 421 |
| 2.5/50 M5 | 525i | M 5 | 3 875 | 6.9 | | |