

State of California  
AIR RESOURCES BOARD

DE 321

EXECUTIVE ORDER A-30-70  
Relating to Certification of New Motor Vehicles

AUDI 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 1989 model-year Audi AG exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

<u>Engine Family</u>	<u>Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
KAD1.9V6FAA0	2.0 (121)	Heated Oxygen Sensor Three-Way Catalyst (Mechanical Port Fuel Injection) (On-Board Diagnostics)

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

The following are the emission standards for this engine family:

<u>Hydrocarbons (Grams per Mile)</u>	<u>Carbon Monoxide (Grams per Mile)</u>	<u>Nitrogen Oxides (Grams per Mile)</u>
0.41	7.0	0.7

The following are the certification emission values for this engine family:

<u>Hydrocarbons (Grams per Mile)</u>	<u>Carbon Monoxide (Grams per Mile)</u>	<u>Nitrogen Oxides (Grams per Mile)</u>
0.14	1.9	0.3

BE IT FURTHER RESOLVED: That the listed models are certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying to the optional NOx standard by providing evidence that there are sufficient projected sales of vehicles certifying to the primary NOx emission standard, or is allowed a delay in implementation under small volume manufacturer provisions, or is allowed a delay in implementation under the "In lieu" standards, or is certifying passenger cars weighing more than 5250 lbs. loaded vehicle weight.

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 Administrative Code, 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 Tune-Up Label Specifications" (Title 13, California Administrative Code, 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 Administrative Code, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compliance with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Administrative Code, 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 regulations (Title 13, California Administrative Code, Section 2035 et seq.), with the 2 year/24,000 mile warranty provisions of Health and Safety Code Section 43204.

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 21<sup>st</sup> day of July, 1988.

  
K. D. Drachand, Chief  
Mobile Source Division

## 1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer	AUDI AG	Engine Family	KAD1.9V6FAA0
Evaporative Family	KAA8	Engine Type	Otto
		Liters (CID)	2.0

## ABBREVIATIONS

Ignition System

CA - Centrifugal Advance  
 ECU - Electronic Control Unit  
 EI - Electronic Ignition  
 ESAC - Electronic Spark Advance Control  
 VA - Vacuum Advance  
 VR - Vacuum Retard

Fuel System

CFI, EPFI, MPFI,  
 DID, DIP, HOS, OS  
 nV-n Venturi Carburetor  
 VV-Variable Venturi Carburetor

Exhaust Emissions Control System

AIP - Air Injection-Pump  
 AIV - Air Injection-Valve  
 EGR - Exhaust Gas Recirculation  
 EIC - Electronic Injection Control (Diesel Only)  
 EM - Engine Modification  
 SPL - Smoke Puff limiter or Throttle Delay  
 TOC - Trap Oxidizer, Continual  
 TOP - Trap Oxidizer, Periodical  
 DBC - Dual Bed Catalyst  
 OC - Oxidation Catalyst  
 TWC - Three-Way Catalyst  
 WUOC - Warm-Up Oxidation Catalyst  
 WUTWC - Warm-Up Three-Way Catalyst  
 OS - Oxygen Sensor  
 HOS - Heated Oxygen Sensor

Special Features

CFI - Central Fuel Injection or Throttle Body Injection  
 EPFI - Electronic Port Fuel Injection  
 MPFI - Mechanical Port Fuel Injection  
 SFI - Sequential Fuel Injection  
 DID - Diesel Injection-Direct  
 DIP - Diesel Injection-Prechamber  
 TC - Turbocharger  
 SC - Supercharger  
 IC - Intercooler or Aftercooler  
 CCV - Combustion Chamber Valve  
 OBD - On-Board Diagnostics

VEHICLE MODELS:

Audi 80  
 Audi 90

Engine:	Front <u>X</u>	Mid. <u>   </u>	Rear <u>   </u>
DRIVE SYSTEM:	FWD <u>X</u>	RWD <u>   </u>	4WD Full Time <u>   </u> 4WD Part Time <u>   </u>

## 1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars  Light-Duty Trucks \_\_\_\_\_ Medium-Duty Vehicles \_\_\_\_\_ Gas  Diesel \_\_\_\_\_  
 Manufacturer AUDI AG Engine Family KAD 1.9 V6FAAO  
 Displacement (Ltr.) 2.0 Engine Type Otto  
 Emission Control System MPFI, CL, TWC, HOS

Engine Code	Vehicle Models (Dyno HP)	Trans. Type	Equiv. Test Weight	Ignition System Part No.	Fuel System Part No.	EGR Valve Part No.	Catalyst Part No.
ADE5	Audi 80/90 (7.2)	M5	2875	EI-ESAC 053 905 205 A	MPFI 026 133 353 D	---	893 131 702 S c 893 178 A
ADE7	Audi 80/90 (7.2)	A3	3000	EI-ESAC 053 905 205 A	MPFI 026 133 353 D	---	443 131 701 B c

Comments:

See page one for abbreviations and evaporative emission family identification family identification.  
 Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment.  
 If two test weights are listed, the lower weight will be used for testing.

Date of Issue: 05-03-88

Revisions: