State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-7-115 Relating to Certification of New Motor Vehicles

VOLKSWAGEN 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 1987 model-year Volkswagen AG exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displacen Cubic Inches		Exhaust Emission Control Systems (Special Features)
HVW1.8V5FWA9	109	(1.8)	Three-Way Catalyst Heated Oxygen Sensor (Electronic Fuel Injection)

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

The following are the emission standards for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	
Grams per Mile	Grams per mile	Grams per Mile	
0.41	7.0	0.7	

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

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
Grams per Mile	Grams per Mile	Grams per Mile
0.22	2.6	0.1

BE IT FURTHER RESOLVED: That the listed models were 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 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 1981 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 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.) and with 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 _____ day of May, 1987.

K. D. Drachand, Chief. Mobile Source Division

1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer

VW AG

Engine Family

HVW1.8V5FWA9

Evap. Family

HWA

Engine Type

Otto

Displacement (Liters)

1.8 (109)

ABBREVIATIONS

Ignition System

CA - Centrifugal Advance

EEC - Electronic Engine Control

EI - Electronic Ignition

ESAC - Electronic Spark Advance Control

VA - Vacuum Advance

VR - Vacuum Retard

Exhaust Emissions Control System

AIP - Air Injection-Pump

AIV - Air Injection-Valve

CL - Closed Loop

EGR - Exhaust Gas Recirculation

EM - Engine Modification

OC - Oxidation Catalyst System

SPL - Smoke Puff Limiter or Throttle Delay

TOC - Trap Oxidizer Continual

TOP - Trap Oxidizer Periodical

TR - Thermal Reactor

TWC - Three-Way Catalyst System

WUOC - Warm-Up Oxidation Catalyst

WUTWC - Warm-Up Three-Way-Catalyst

Special Features

CCV - Combustion

Chamber Valve

CFI - Central Fuel Injection

DID - Diesel

Injection-Direct

DIP - Diesel

Injection-Prechamber

EFI - Electronic Fuel

Injection

IC - Intercooler

MFI - Mechanical Fuel

Injection

OBD - On-Board Diagnostics

TC - Turbocharged

Fuel System

CFI, CL, DID, DIP, EFI, MFI nV - nVenturi Carburetor

VEHICLE MODELS:

Golf Jetta

Engine:

Front X

Mid.

Rear

DRIVE SYSTEM:

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Χ

RWD

4WD Full Time

4WD Part Time

037 906 031 C

165 131 701 C

1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars X	Light-Duty Trucks	Medium-Duty Vehicles	Gas <u>X</u>	Diesel
Manufacturer	VW AG	Engine Family	HVW 1.8 V5FWA9	
Displacement (Ltr.)	1.8	Engine Type	Otto	
Emission Control System	m (EFI)HOS. TWC			

Equiv. Ignition System Engine Vehicle Models Trans. Test Fuel System EGR Valve Catalyst (Dyno HP) Weight Part No. Part No. Part No. Part No. Code Type PF 2,625 EI-ESAC 165 131 701 C Jetta M5 MFI 037 906 031 C Golf 191 905 351 A (7,0)PF A3 2,750 EI-ESAC MFI Jetta 165 131 701 C 037 906 031 C Go1f 191 905 351 A (7,0)

EI-ESAC

191 905 351 A

2,625

M 4+E

Comments:

PF

Jetta

Go1f

(7,0)

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.