File



State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-7-114
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 diesel-powered passenger cars:

| Engine Family | Displacement Cubic Inches | (Liters) | Exhaust Emission Control Systems (Special Features) |
|---|---|---|---|
| HVW1.6D6JAZ1 | 97 | (1.6) | (Diesel Injection - Prechamber) (Turbocharger) |

Vehicle models, transmissions and engine codes are listed on attachments.

The following are the emission standards for this engine family:

| Hydrocarbons Grams per Mile | Carbon Monoxide Grams per Mile | Nitrogen Oxides Grams per mile | Particulates Grams per Mile |
|---|---|---|---|
| 0.46 | 8.3 | 1.0 | 0.2 |

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

| Hydrocarbons Grams per Mile | Carbon Monoxide Grams per Mile | Nitrogen Oxides Grams per Mile | Particulates Grams per Mile |
|---|---|---|---|
| 0.26 | 0.8 | 0.8 | 0.1 |

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.).

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 16th day of October, 1986.

K. D. Drachand, Chief
Mobile Source Division

# 1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Volkswagenwerk AG

Executive Order No. A-7-114

Engine Family HVW1.6D6JAZJ

Evaporative Family n.a. Pg.1

Engine CID (Liters) 97 (1.6)

ABBREVIATIONS

**Ignition System**

CA-Centrifugal Advance
EEC-Electronic Engine Control
EI-Electronic Ignition
ESAC-Electronic Spark Advance Control
VA-Vacuum Advance
VR-Vacuum Retard

**Fuel System**

CFI, CL, DID, DIP, EFI, MFI
nV-nVenturi Carburetor
VV-Variable Venturi

**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
TOC-Trap Oxidizer Continual
TOP-Trap Oxidizer Periodical
TR-Thermal Reactor
TWC-Three-Way Catalyst System

**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
TC-Turbocharged

VEHICLE MODELS: JETTA SEDAN

DRIVE SYSTEM: FWD, Front Engine/ Two -Wheel Drive

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# 1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

x Passenger Cars __ Light-Duty Trucks __ Medium-Duty Vehicles __ Gas x Diesel

Manufacturer Volkswagenwerk AG

Page

Engine Family HVW1.6D6JAZ1

Engine Code MF

ECS (Special Features) (DIP, TC)

CID (Liter)-Type 97 (1.6) L - 4

| Engine Code | Vehicle Models (If Coded see attachment) (Hp) | Trans. | Equiv. Test Weight | Ign. System Part No. | Fuel System Part No. | EGR Valve Part No. | CATALYST Part No. |
|---|---|---|---|---|---|---|---|
| MF | JETTA (7.0) | M5 | 2,625 | n.a. | Injection pump 068130081 F Fuel injectors 068130201 P | n.a. | n.a. |
| | HP list: see page 05-01 | | | | | | |

Comments: See page one for abbreviations and evaporative emission 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.

*Add 10% to dyno test HP for air conditioning usage.