#### State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-7-127 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 1989 model-year Volkswagen AG exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displacement Liv Liters (Cubic inches)		Exhaust Emission Control Systems (Special Features)	
KVW1.8V6FSAX	1.8	(109)	Heated Oxygen Sensor Three-Way Catalyst (Electronic Port Fuel Injection) No On-Board Diagnostics (Exempt)	

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)	
0.25	2.2	0.4	

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 Ileu" 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 ilsted 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 have been granted an exemption from compliance with the requirements of the "Maifunction 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.) and 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 101 day of June, 1988.

K. D. Drachand, Chief Mobile Source Division

#### 1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer

W AG

Engine Family

KW1.8V6FSAX

Evaporative Family

KAS1 and KAS5

Engine Type

Otto

Liters (CID)

1.8

#### 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

PFI- Electronic Port Fuel Injection

MPFI- Mechanical Part

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

OBO - On-Board Diagnostics

## VEHICLE MODELS:

Scirocco 16 V Jetta GLI 16 V GTI 16 V

Engine:

Front X

Mid.

Rear

DRIVE SYSTEM:

FWD X

RWD \_\_\_

4WD Full Time 4WD Part Time

#### 1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars X	Light-Duty Trucks	Medium-Duty Vehicles _	Gas X Diesel
Manufacturer	W AG	Engine Family	KVW 1.8 V6FSAX
Displacement (Ltr.)	1.8	Engine Type	Otto
Fmission Control Syste	m MOFT OF TUP LING		

Equiv. Engine Vehicle Models Trans. Test Ignition System Fuel System EGR Valve Catalyst Code (Dyno HP) Weight Type Part No. Part No. Part No. Part No. ACE5 MPFI Scirocco 16V МБ 2625 EI-ESAC 533 131 701 c 027 905 205 P 026 133 353 A (7.0)533 253 208 ACE5 Jetta GLI 16V 2750 EI-ESAC **MPFI** МБ 165 131 701 E (7.0)027 905 205 P 026 133 353 ACE5 GTI 16V 2750 МБ EI-ESAC **MPFI** 165 131 701 E 027 905 205 P 026 133 353 (7.0)

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: 04-15-88

Revisions: