State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-7-138 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 28, 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		splacement (Cubic Inches)	Exhaust Emission Control Systems (Special Features)			
KVW1.8V6FAF2	1.8	(109)	Exhaust Gas Recirculation Heated Oxygen Sensor Three-Way Catalyst (Mechanical Port Fuel Injection) No On-Board Diagnostics (Exempted)			

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

The following are the emission standards for this engine family:

Hydrocarbons (Grams per Mile)	(Grams per Mile)	(Grams per Mile)
0.41	7.0	0.4

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)	
0.23	2.0	0.1	

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 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.).

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 August, 1988.

K. D. Drachand, Chief Mobile Source Division

1989 AIR RESURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer

W AG

Engine Family

KW1.8V6FAF2

Evaporative Family

KAF9

Engine Type

Otto

Liters (CID)

1.8

ABBREVIATIONS

Ignition System

CA - Centrifugal Advance

EW - Electronic Control Unit

EI - Electronic Ignition

ESAC - Electronic Spark Advance Control

VA - Vacum Advance

VR - Vacum Retard

Fuel System

CFI, EPFI, MPFI,

DID, DIP, HOS, OS

nV-n Venturi Carturetor

W-Variable Venturi Carturetor

Exhaust Emissions Control System

AIP - Air Injection-Pump

AIV - Air Injection-Valve

KR - Exhaust Ges Recirculation

EIC - Electronic Injection Control

(Diesel Only)

EM - Engine Modification

SPL - Sincke Puff limiter or

Throttle Delay

TCC - Trap Oxidizer, Continual

TOP - Trap Oxidizer, Periodical

DBC - Dual Bed Catalyst

OC - Oxidation Catalyst

TWC - Three-Way Catalyst

WUCC- Warm-Up Oxidation Catalyst

WIWC-Warm-Up Three-Way Catalyst

OS - Oxygen Sensor

HDS - Heated Oxygen Sensor

Special Features

CFI - Central Fuel Injection or

Throttle Body
Injection

EPFI- Electronic Port

Fuel Injection MPFI— Mechanical Part

Fuel Injection

SFI - Sequential Ruel Injection

DID - Diesel Injection-

Direct

DIP - Diesel Injection-

Precharber

TC - Turbocherger

SC - Supercharger

IC - Intercoler or Aftercoler

OOV - Combustion Chamber

Valve

OBD - On-Board Diagnostic

VEHICLE MODELS:

Fox, Fox Wagon

Engine:

Front X

Mid.

Rear

DRIVE SYSTEM:

FWD X

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RWD

4WD Full Time

4wD Part Time

1989 AIR RESURCES BOARD SUPPLEMENTAL DATA SHEKT

Passenger Cars X Light-Duty Trucks Medium-Duty Vehicles Cas X Diesel										
Manufactu	rer W	Æ		Engine Family	KW 1.	8 VGFAF2	-			
Displacement (Ltr.) 1.8			4	Engire Type	Otto	Otto				
Emission Control System MPFI, OL, TWC, HDS, EAR										
Donling	Ilahiala Madala	Пот	Equiv.	Tool tilan Statem	Hal Control	779 Volum	Cotolisat			
Engine Code	Vehicle Models (Dyno HP)	Trans. Type	Test Weight	Ignition System Part No.	Ruel System Part No.	KR Valve Part No.	Part No.			
AEF3	Fox/ Fox Wagon (8.8)	Мį	2625	E1, CA, VA 026 905 205 AH or 026 905 206 B	MFFI 026 133 353		175 131 701			
ABF3	Fox (8.8)	A ⁴ 1	2500 .·	EI, CA, VA 026 905 205 AH or 026 905 206 B	MPFI 026 133 353		175 131 701			
AEF3	Fox/ Fox Wegon (8.8)	МБ	2625	EI, CA, VA 026 905 205 AH or 026 905 206 B	MPFI 026 133 353		175 131 701			
ABF3	Fox (8.8)	A4.	2500	EI, CA, VA 026 905 205 AH or 026 905 206 B	MFFI 026 133 353		175 131 701			
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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: 06-29-88

Revisions: