State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-7-90
Relating to Certification of New Motor Vehicles

VOLKSWAGENWERK 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 1985 model-year Volkswagenwerk AG exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	Displacement Cubic Inches	(Liters)	Exhaust Emission Control Systems (Special Features)
FVW2.2V6FFC7	136	(2.22)	Three-Way Catalyst with Closed Loop (Mechanical 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 Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0.41	7.0	0.7

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

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0.20	1.8	0.3

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.15 of Title 13, California Administrative Code which includes repair or replacement of 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 Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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 30th day of January, 1985.

K. D. Drachand, Chief
Mobile Source Division

anufacturer Volkswagen Executive Order No. A-7-90

Engine Family FVW 2.2 V6FFC7 Evaporative Family VWBN

Engine CID (Liters) 136 (2.22)

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 Valv
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: Quantum syncro

DRIVE SYSTEM: Front Engine/ 4 -Wheel Drive

012584

E.O. No. A-7-90

08.13.00.00 General Specifications

.01.00 Frontal Areas

Model	Frontal Area (ft^2)
Quantum syncro	20.8

.02.00 Test Horsepower

.01 Exhaust Emission Test Conditions

a) Frontal Area HP

Model	DPA-value (HP)	DPA + 10 % Value (HP)
Quantum syncro	10.4	11.4

b) Coastdown HP

Model	DPA-value (HP)	DPA+10 % value (HP)	ETW (lbs)	corr.track c.d.t (sec)	c.d.t. for DPA+10 % (sec)
Quantum syncro	9.1	10.0	3250	13.15	12.43

E.O. #A-7-90

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars ___ Light-Duty Trucks ___ Medium-Duty Vehicles X Gas ___ Diesel

Manufacturer Volkswagen

Page

Engine Family FVW 2.2 V6FFC7

Engine Code NLCHIMB

ECS (Special Features) CL, TWC, (MFI)

CID (Liter)-Type 136 (2.22)

Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv. Test Weight	Ign. System VA Part No.	Fuel System Part No.	EGR Valve Part No.	Label Ident. Part No.
NLCHIMB	*Quantum syncro	M 5	3250	EI 211905351, or 211905351A, or 211905351C, or 211905351D CA, VA 035905205AM, or 034905205 F	MFI 034133353 CL 811906264C, or 811906264D, or 811906264E	N/A	TUL 443000331 AD VHRD 034000363 T

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.

Date of Issue -

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