

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:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
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:

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.41	7.0	0.7

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

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
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 30<sup>th</sup> day of January, 1985.



K. D. Drachand, Chief  
Mobile Source Division

Manufacturer 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 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:

Quantum syncro

DRIVE SYSTEM: Front Engine/ 4 -Wheel Drive

012584

08.13.00.00 General Specifications

## .01.00 Frontal Areas

Model	Frontal Area (ft <sup>2</sup> )
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

## 1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars \_\_\_ Light-Duty Trucks \_\_\_ Medium-Duty Vehicles X Gas \_\_\_ DieselManufacturer Volkswagen

Page

Engine Family FVW 2.2 V6FFC7

Engine

Code

NLCHIMBECS (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 -