(Page 1 of 2)

## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-7-119 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 1988 model-year Volkswagen AG exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family		lacement Cubic Inches)	Exhaust Emission Control Systems (Special Features)
JVW2.2V6FFA0	2.2	(136)	Three-Way Catalyst Heated Oxygen Sensor (Mechanical Port 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	Carbon Monoxide	Nitrogen Oxides
Grams per Mile	Grams per mile	Grams per Mile
0.1	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
0.16	1.6	0.2

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 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 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 Coue, Section 1968) for the aftrementioned 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 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 147 day of July, 1987.

K. D. Drachand, Chief Mobile Source Division

					E.O.	#	A-7-119
1988 ATR	RESOURCES	ROARD	SHIPPI EMENTAL	DATA	SHEET		•

Passenger Cars X	Light-Duty True	cks Medium-Duty Vehi	icles <u>Gas X</u> D	iesel
Manufacturer	VOLKSWAGEN AG	Engine Family	JVW 2.2 V6FFA0	
Liter (CID)	2.22 (136)	Engine Type	L 5	····
Emission Control	System (Special	Features) TWC, HOS,	(MFI)	
Engine !Vehicle Model Code !(If coded see !attachment) ! (Dyno HP)	s!Trans.! Equiv. ! Type ! Test ! ! Weight ! !	! (ECU) !	!	! Catalyst ! ! ! Part No.
NLCHHMA ! Quantum ! syncro Wagon ! (10.0) !	! ! ! ! ! !	ECU	! ! 64 C,or!	!853131701 D,o !853131701 G ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !

and equipment. If two test weights are listed, the lower weight will be used for testing.

Revisions:

Date of Issue \_\_04-22-87

## 1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Evaporative Family VWBN Engine Type L 5  Liters (CID) 2.22 (136)  ABBREVIATIONS  Ignition System Exhaust Emissions Control System Special Features  CA-Centrifugal Advance ECU-Electronic Control Unit DBC-Dual Bed Catalyst CFI-Central Fuel EGR-Exhaust Gas Recirculation EGR-Exhaust Gas Recirculation EM-Engine Modification UC-Oxidation Catalyst OC-Oxidation Catalyst OC-Oxidation Catalyst OS-Oxygen Sensor HOS-Heated Oxygen Sensor SPL-Smoke Puff Limiter or Throttle Belay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical TWC-Three-Way Catalyst Injection IC-Intercooler  Fuel System WUOC-Warm-Up Oxidation Catalyst UTWC-Warm-Up Three-Way Catalyst Injection IC-Intercooler	Manufacturer VOL	KSWAGEN AG	Engine Family	JVW 2.2 V6FFA0
ABBREVIATIONS  Ignition System			<del></del>	
ABBREVIATIONS  Ignition System	Evaporative raility	V WDIN	Engine Type	
Ignition System  CA-Centrifugal Advance ECU-Electronic Control Unit BC-Dual Bed Catalyst CFI-Central Fuel Injection on ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard  Fuel System  Fuel System  CFI-CI DID, DIP, EFI, MFI nV-nVenturi Carburetor  CA-Centrifugal Advance AIP-Air Injection-Pump AIV-Air Injection-DBC-Dual Bed Catalyst CFI-Central Fuel Injection on Throttle Body Injection Ontrol Injection Control CFI-Central Fuel Injection Ontrol Injection Control Injection Ontrol Injection Ontrol Injection Ontrol Injection DID-Diesel Injection DID-Diesel Injection-Prechamber Injection Ontrol I		٠	Liters (CID)	2.22 (136)
CA-Centrifugal Advance ECU-Electronic Control Unit 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  CA-Centrifugal Advance ECU-Electronic Control Unit DBC-Dual Bed Catalyst EGR-Exhaust Gas Recirculation Endetion Ontrol EGR-Exhaust Gas Recirculation EGR-Exhaust Gas Recirculation Endetion Ontrol EM-Engine Modification EM-Engine Modification EM-Engine Modification Endetion Ontrol EM-Engine Modification EM-Engine Modification Endetion Ontrol EM-Engine Modification EM-Engine Modification Endetion Ontrol EM-Engine Modification Endetion End	ABBREVIATIONS			
ECU-Electronic Control Unit DBC-Dual Bed Catalyst 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  AlV-Air Injection-Valve DBC-Dual Bed Catalyst EGR-Exhaust Gas Recirculation EGR-Exhaust Gas Recirculation EIC-Electronic Injection Control EM-Engine Modification EIC-Electronic Injection Control EM-Engine Modification OC-Oxidation Catalyst OS-Oxygen Sensor Throttle Body Injection DID-Diesel Injection Direct DIP-Diesel Injection-Prechamber EFI-Electronic Fuel Injection OXFI-Mechanical Fuel Injection OBD-On-Board Diagnostics TC-Turbocharger	Ignition System	Exhaust Emissic	ons Control System	Special Features
	ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard  Fuel System CFI, CL, DID, DIP, EFI, MFI	AIV-Air Injection DBC-Dual Bed Care EGR-Exhaust Gase EIC-Electronic EM-Engine Modifioc-Oxidation Caron OS-Oxygen Sensor HOS-Heated Oxygen SPL-Smoke Puff Throttle De TOC-Trap Oxidia TOP-Trap Oxidia TWC-Three-Way Caron Oxidia TWC-Three-Way	ion-Valve atalyst s Recirculation Injection Control ication atalyst or gen Sensor Limiter or elay zer, Continual zer, Periodical Catalyst sidation Catalyst	Chamber Valve CFI-Central Fuel     Injection or     Throttle Body     Injection DID-Diesel     Injection-     Direct DIP-Diesel     Injection-     Prechamber EFI-Electronic     Fuel     Injection IC-Intercooler     or Aftercooler MFI-Mechanical     Fuel     Injection OBD-On-Board     Diagnostics
	VEHICLE MODELS:	Quantum syncro	wa gon	70 74. 200.,4. 34.

Drive: FWD \_\_\_\_ RWD \_\_\_ 4WD Full Time \_\_\_ X 4WD Part Time \_\_\_\_