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## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-7-118 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		splacement (Cubic Inches)	Exhaust Emission Control System (Special Features)				
JVW2.2V6F8C5	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			
0.41	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		
0.19	2.2	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 1960.1.5 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 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 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 14 day of July, 1987.

K. D. Drachand, Chief Mobile Source Division

## 1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer VOL	KSWAGEN AG	Engine Family	JVW 2.2 V6FBC5			
Evaporative Family	VWBN	Engine Type	L 5			
		Liters (CID)	2.22 (136)			
ABBREVIATIONS		•				
Ignition System	Exhaust Emissic	ons Control System	Special Features			
CA-Centrifugal Advance ECU-Electronic Control Unit EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard		ion-Valve atalyst s Recirculation Injection Control ication atalyst or gen Sensor Limiter or alay zer, Continual zer, Periodical	CCV-Combustion Chamber Valve CFI-Central Fuel Injection or Throttle Body Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic Fuel			
Fuel System CFI, CL, DID, DIP, EFI, MFI nV-nVenturi Carburetor	WUOC-Warm-Up Ox	cidation Catalyst Three-Way Catalyst	Injection IC-Intercooler or Aftercooler MFI-Mechanical Fuel Injection OBD-On-Board			
VEHICLE MODELS:	Quantum Sedan Quantum Wagon		Diagnostics TC-Turbocharger			

Engine:	rrunt	^	- MIC.	<del></del>	Kear _					
Drive:	FWD _	X	RWD	4WD	Full	Time	4WD	Part	Time	

					E.O.	#	A-7-118
1988 ATR	RESOURCES	ROARD	SUPPLEMENTAL	DATA	SHEET		

Pas	senger Cars <u>X</u>	Light-Du	ity Truck	ks Med	ium-Duty Veh	icles	Gas <u>X</u> Di	esel	
Man	ufacturer <u>V</u> (	DLKSWAGEN	l AG	E:	ngine Family	JVW	2.2 V6FBC5	<del>  </del> -	
Liter (CID) 2.22 (136)				Eı	ngine Type _	L 5			
Emi	ssion Control Sy	/stem (Sp	ecial Fe	eatures) _	TWC, HOS,	(MFI)	· <del></del> · · ·		
Code	!Vehicle Models! !(If coded see ! !attachment) ! (Dyno HP)	! Type !	Test ! Weight!		em ! Fuel S ! ! ! Part N	. !	EGR Valve	! Catalyst ! ! ! Part No.	
NLCHHMA	! Quantum Sedan! ! (8.7) ! !	M5/A3!	!2 !1 !1 !1 !	ECU 211905351 191905351 191905351 191905351 CA, VA 034905205	B,or! ECU C !8119062 !8119062 !	! ! 64 C,or!	N/A	! 443131701,or !855131701 A ! ! ! ! ! !	
	Quantum Wagon! (8.7) ! ! ! ! !	M5/A3!	3000	_ 10 _			_11_		
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.

Revisions:

030186

Date of Issue 04-24-87