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## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-7-101 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 1986 model-year Volkswagenwerk AG exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

		acement	Exhaust Emission Control Systems
Engine Family	Cubic Incl	nes (Liters)	(Special Features)
GVW2.1T5CVA8	129	(2.1)	Three-Way Catalyst with Closed Loop (Electronic 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:

Equivalent Inertia Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per mile
0-3999	0.41	9.0	1.0
4000-5999	0.50	9.0	1.5

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

Equivalent Inertia Hydrocarbons Weight Grams per Mile		Carbon Monoxide Grams per Mile	Nitrogen Oxides <u>Grams per Mile</u>	
0-3999	0.19	3.0	0.4	
4000-5999	0.14	2.5	0.3	

BE IT FURTHER RESOLVED: That the listed models in the 0-3999 equivalent inertia weight class 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. VOLKSWAGENWERK AG

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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 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 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 Health and Safety Code Section 43204, provided, however, that for the listed vehicles in the 0-3999 equivalent inertia weight class jurisdiction is hereby reserved to modify these provisions to the extent made necessary by an EPA waiver decision, in order to assure that the listed vehicles comply with the minimum federal requirements applicable in California.

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 20th day of September, 1985.

Bob-Cross for

K. D. Drachand, Chief Mobile Source Division

## 1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer	Volkswagen	Executive Order No. A	-7-101
Engine Family	GVW2.1T5CVA8		1 (1) 11
		Engine CID (Liters)	129 (2.1)
ABBREVIATIONS		Page	1
	i	·	
Ignition System	•	Exhaust Emissions Control System	Special Features
CA-Centrifugal Ac EEC-Electronic Er EI-Electronic Ign ESAC-Electronic S Control VA-Vacuum Advance YR-Vacuum Retard EIC: Electronic Control Fuel System CFI, CL, DID, DIP nV-nVenturi Carbus VV-Variable Ventur	igine Control ition spark Advance Ignition , EFI, MFI retor	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	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:	-	on Bus on Kombi on Campmobile	,
	•	on snycro Bus on syncro Kombi	

DRIVE SYSTEM:	1.	RWD	Rear	Engine/	Two	-!/hee1	Orive
012584			2. F	our Wheel	Drive	-	

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ENGINE FAM.: GTW2.1VA 05.00.00.00 TEST PROCEDURES ENGINE CODE: all E.O. NO. A-7-101 Page. \_ La 05.03.02.00 Road Load .01 For the following vehicle models described in this engine family the dynamometer power absorption (DPA) values were determined in accordance with A/C 55B. Vehicle Model ETW DPA Corrected Road For Further (108) Value Coast Down Time Information (hp) **(B)** Refer to Vanagon 1986 VW Application Bus/Kombi Sect. 05.03 general part 16.4 3,750 M4 11.00 Campmobile 17.4\* 4,000 M4, A3 11.22 Bus/Kombi 16.4\* ₫3 3,875 11.37 Vanagon syncro M4 + Creeper 19.2\* 4,000 Bus/Kombi 10.14 20.0\* Campmobile 4,250 10.03 \* DPA value includes 10 % increment for A/C usage ISSUED REVISED PAGE NO. 01-07-86 05-01 07 - 18 - 85

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		ufacturer		Page 2				
Y		ine Family				Engine Code MV		
			;) FI/TWC/EGS (EFI/TWC/CL)			CID (Liter)- Type 129 (2.1) - 4 HO		
	Engine Code	Vehicle Models (If Coded see attachment)	Trans.	Equiv. Test Weight	Ign. System	Fuel System	EGR Valve	Label Ident.
		(Hp)			Part No.	Part No.	Part No.	Part N
		Vanagon Bus (16.4) Vanagon Kombi	M 4	3,750	EIC Distributor 025905205 M	Fuel pump 043906091	n. a.	VECI 025010 001 H
	MV	(16.4) Vanagon Bus (16.4) Vanagon Kombi (16.4)	A 3	3,875		Fuel pressure governor 025133035		VHRD 025010 001G
		Vanagon Campmobil <b>e</b> (17.4)	M 4/A 3	<b>4,0</b> 00		Fuel injectio control 025906022		
		Vanagon Syncro Bus/Kombi (19.2)	M 4+ Creeper	4,000				
		Campmobile (20.0)	ci cepei	4,250				
		Hp list: see	page D	5-01				
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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.

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