SEE A-7-124-1

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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-7-124
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 Safetý 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 light-duty trucks:

Engine Family	Displacemen Liters (Cubic I	t Exhaust Emission Control Systems (Special Features)
JVW2.1T5FVAO	2.1 (129)	Three-Way Catalyst Heated Oxygen Sensor (Electronic 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:

Vehicle	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
Weight	Grams per Mile	Grams per mile	Grams per Mile
0-37 50	0.41	9.0	. 1.0
3751-5 75 0	0.50	9.0	

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

Loaded Vehicle Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile	
0-3750	0.19	3.0	0.4	
3751 - 5750	0.32	4.6	0.7	

BE IT FURTHER RESOLVED: That the listed models in the 0-3750 loaded vehicle 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.

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, for the listed vehicles in the 0-3750 loaded vehicle weight class, 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

day of September, 1987.

K. D. Drachand, Chief Mobile Source Division

1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer	Volkswagen	Executive Order No. A-7-124
Engine Family	JVW2.1T5FVAO	Evaporative Family 2. VW-VS
		Engine CID (Liters) 129 (2.1)

ABBREVIATIONS

Ignition System .

CA-Centrifugal Advance
EEC-Electronic Engine Control
EI-Electronic Ignition
ESAC-Electronic Spark Advance
Control
VA-Vacuum Advance
'VR-Vacuum Retard
EIC: Electronic Ignition
Control

Fuel System
CFI, CL, DID, DIP, EFI, MFI
nV-nVenturi Carburetor
VV-Variable Venturi

Exhaust Emissions Control System

AIP-Air Injection-Rump
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
TMC-Three-Way Catalyst System

Special Features

CCV-Combustion Chamber Valve CFI-Central Fuel Injection DID-Diesel Injection-Direct DIP-Diesel Injection-Prechamber EFI-Electronic Fue1 Injection IC - Intercooler MFI-Mechanical Fuel Injection TC-Turbocharged

VEHICLE MODELS

- . Vanagon Bus Vanagon Kombi Vanagon Campmobile
- Vanagon snycro Bus
 Vanagon syncro Kombi
 Vanagon syncro Campmobile

ORIVE SYSTEM: 1. RWD Rear Engine/ Two -Wheel Drive
012584 2. Four Wheel Drive

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1988 AIR	RESCURCES	BOARD	SUPPLEMENTAL	DATA	SHEET	

Pas	senger Cars <u>X</u> L	ight-Duty	Trucks	_ :	Medium-D	uty Vehicles	× Gas	Diesel
Mani	ufacturer	Volks	wagen			Page		
Engi	ine Family	JVW2.	1T5FVAO			Engir. Code	MV	
	(Special Features)			epfi/T	NC/HOS)	CID (Liter)- Type	129 (2.1)	- 4 HO
Engine Code	Vehicle Models (If Coded see	Trans.	Equiv. Test	Ign.	System	Fuel System	EGR Valve	Catalyst
	attachment) (Hp)		Weight	Part	No.	Part No.	Part No.	Part No
	Vanagon Bus (16.4)	M 4	3,750		ibutor 5205 M	Fuel pump 043 906 091	n. a.	
	Vanagon Kombi (16.4)				V		,	025131701
MV	Vanagon Bus	1	2 075			Fuel pressure governor		025131701
	(16.4) Vanagon Kombi	A 3	3,875			025133035		
	(16.4) Vanagon					Fuel injection control	h	
	Campmobile (17.4)	M 4/A 3	4,000			025906022 ECU		
	Vanagon Syncro				- 1	025 906 022 D		
	Bus/Kombi	M 4 +	4,000					
	(19.2) Campmobile (20.0)	Creeper	4,250					
	Hp list: see	page 0	5-01					
C							The state of the s	

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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