

VOLKSWAGEN

Transporter 2.1i CAT

1989 to 1992

Engine & Cooling

Fuel

Ignition

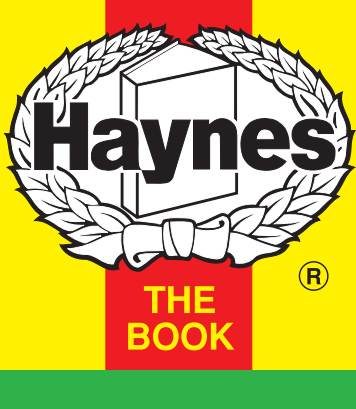
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

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Type		MV or SS. 70 or 68kW
Capacity (cm ³) / number of cylinders		2109 / 4
Compression ratio / pressure	bar	9.0 / ≥8.0
Oil pressure	bar	[2.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-4-3-2
No 1 cylinder position		FER
Thermostat opening temperature	°C	85
Radiator cap pressure	bar	0.9 to 1.5

Fuel system

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Idle speed - manual [auto]	rpm	880±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.7±0.4
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Volkswagen
Type / ref		Digifant
Main jet / needle		—
Injection pressure	bar	2.0
Pump pressure	bar	2.5
Octane rating	RON	91[U]

Ignition system

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Type		Digifant
Ignition coil		—
Primary resistance	ohms	0.6 to 0.8
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Bosch
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	5±1 BTDC @ 2000 to 2500
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	35±5 @ 3000
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		Bosch/Champion
Type		W7CCO / N288
Electrode gap	mm	0.60 to 0.80

Electrical system

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Battery	V / CC / RC	12 / 45, 54 or 63Ah
Alternator voltage / full load current / engine rpm		—
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

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Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.5

Tyres		
Saloon	Size	—
Estate / Van	Size	185x14: 205/70x14: 205x14
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	185: 3.0 / 3.7 ¹

Front suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	+2.0±3.5 ²
Camber		0±30'. 4x4: +20'±20'
Castor		+7°15'±15'. 4x4: +4°40'±15'
King pin inclination		—

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	[0±20'. 4x4: +10'±20']
Camber		-30'±30'. 4x4: -15'+30'-10'

Torque wrench settings

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Cylinder head - stage 1	Nm	10
- stage 2	Nm	50
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	30 + 180°
Main bearings	Nm	WSM
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	30 + 90°
Front hubs	Nm	WSM ³
Rear hubs	Nm	500
Wheel nuts / bolts	Nm	180
Spark plugs	Nm	25

Capacities

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Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	3.0
Automatic transmission - refill	litres	3.0
Final drive	litres	AT: 1.3 ⁴
Cooling system	litres	7.5
Fuel tank	litres	60. 4x4: 70

Notes and Illustrations

¹205/70x14: 1300kg: 2.1 / 2.8. 1400kg: 2.5 / 2.8. 4x4 185: 3.0 / 3.3. 205/70: 2.5 / 2.8. 205x14: 2.5 / 3.0

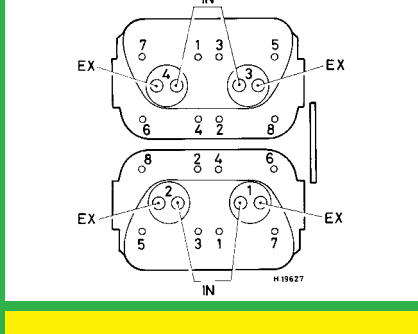
²4x4: WSM

³4x4: 350

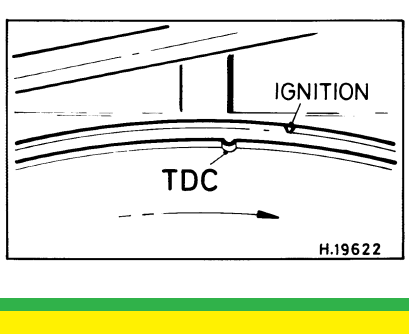
⁴4x4, front: 1.5, rear: WT

1: Idle speed

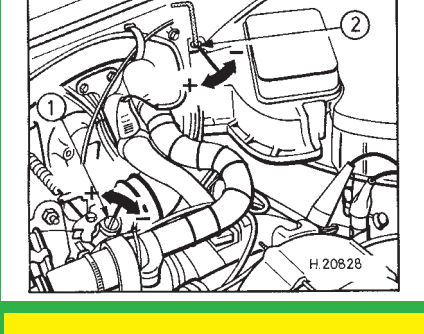
2: CO / Mixture



2109 cm³



2109 cm³



Digifant, MV / SS