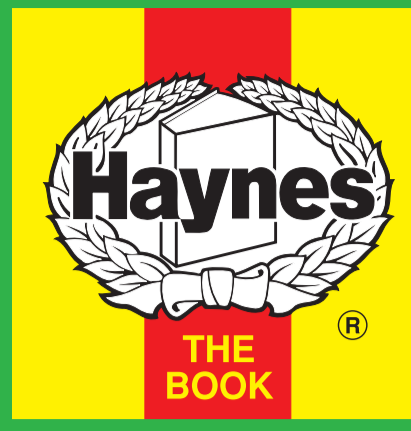


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
------------------	------	----------	------------	--------------	-----------------	------------	-----------------------



Automotive Technical DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system Transporter 2.1i CAT 1989 to 1992

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 Transporter 2.1i CAT 1989 to 1992

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
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ 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 Transporter 2.1i CAT 1989 to 1992

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 Transporter 2.1i CAT 1989 to 1992

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 Transporter 2.1i CAT 1989 to 1992

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 Transporter 2.1i CAT 1989 to 1992

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 Transporter 2.1i CAT 1989 to 1992

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

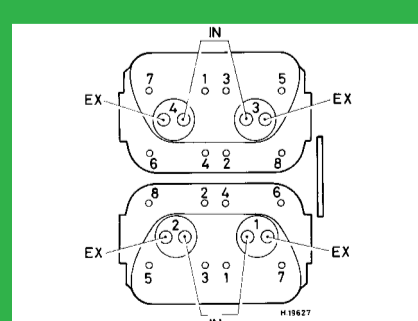
¹205/70x14: 1300kg: 2.1 / 2.8. 1400kg: 2.5 / 2.8. 4x4 185: 3.0 / 3.3. 205/70: 2.5 / 2.8. 205x14: 2.5 / 3.0

²4x4: WSM

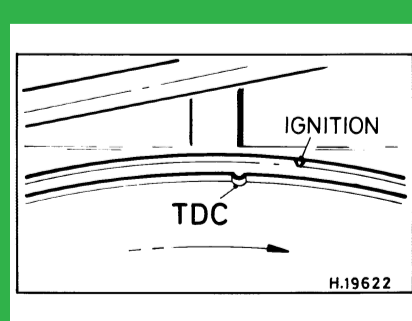
³4x4: 350

⁴4x4, front: 1.5, rear: WT

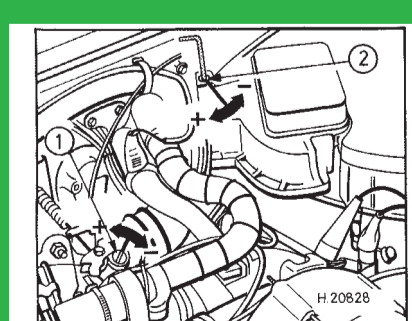
1: Idle speed 2: CO / Mixture



2109 cm³



2109 cm³



Digifant, MV / SS