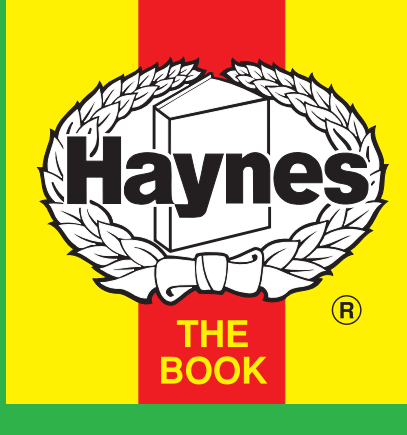




Automotive Technical

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/Caravelle 2.1

1985 to 1992

Type		DJ. 82kW
Capacity (cm³) / number of cylinders		2109 / 4
Compression ratio / pressure	bar	10.5 / 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 1.2

Fuel system

Transporter/Caravelle 2.1

1985 to 1992

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	2.0±0.5
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		Digijet
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	2.0
Octane rating	RON	98[E 98 RON] ¹

Ignition system

Transporter/Caravelle 2.1

1985 to 1992

Type		Electronic - Hall effect
Ignition coil		Bosch
Primary resistance	ohms	0.5 to 0.8²
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	10±1 BTDC @ 800±50¹
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1050 to 1150
	° Crankshaft @ rpm	2 to 6 @ 1300
	° Crankshaft @ rpm	12 to 16 @ 2400
Vacuum range check	mbar	165 to 330
Maximum vacuum advance	° Crankshaft	12 to 16
Spark plugs		Bosch/Champion
Type		W5DTC / N6BYC³
Electrode gap	mm	0.70 to 0.90³

Electrical system

Transporter/Caravelle 2.1

1985 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/Caravelle 2.1

1985 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 / 3.7⁴

Front suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	+2.0±3.5⁵
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/Caravelle 2.1

1985 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	WSM⁶
Rear hubs	Nm	500
Wheel nuts / bolts	Nm	180
Spark plugs	Nm	20

Capacities

Transporter/Caravelle 2.1

1985 to 1992

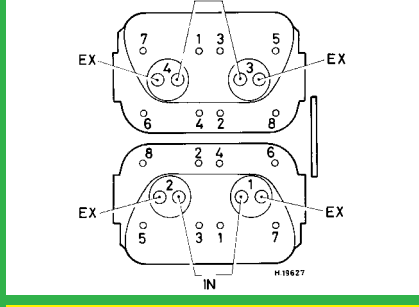
Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	3.0
Automatic transmission - refill	litres	3.0
Final drive	litres	AT: 1.3⁷
Cooling system	litres	17.5
Fuel tank	litres	60. 4x4: 70

Notes and Illustrations

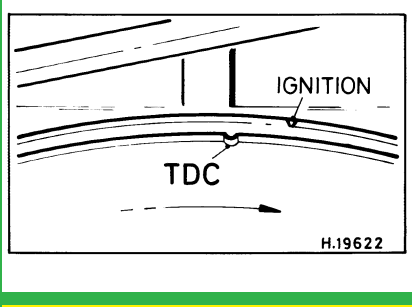
- ¹[E 95 RON], 5-1 BTDC @ 800±50
- ²Coil with green sticker only. Grey sticker: 0.6 to 0.8
- ³Coil with grey sticker: W5DCO / N6YCX, gap: 0.70 to 0.80
- ⁴205/70x14: 1300kg: 2.1 / 2.8. 1400kg: 2.5 / 2.8. 4x4: 185 3.0 / 3.3. 205/70: 2.5 / 2.8. 205x14: 2.5 / 3.0
- ⁵4x4: WSM
- ⁶4x4: 350
- ⁷4x4, front: 1.5, rear: WT

1: Idle speed

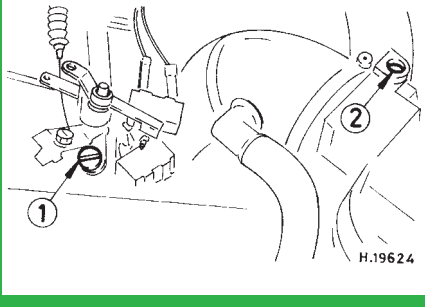
2: CO / Mixture



2109 cm³



2109 cm³



Digijet, DJ