

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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HELP

Engine and cooling system Transporter/Caravelle 1.9 1982 to 1992

Type		DG. 57kW
Capacity (cm ³) / number of cylinders		1913 / 4
Compression ratio / pressure	bar	8.6 / 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 1.9 1982 to 1992

Idle speed - manual [auto]	rpm	900±50 (2E4 N/A)
Fast idle speed - manual [auto]	rpm	2000±200 (2E4: 3600±200)
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5
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		Solex
Type / ref		2E3 (87 ▶: 2E4) 025 129 015
Main jet / needle		102.5, 110 ¹
Injection pressure	bar	—
Pump pressure	bar	0.20 to 0.30
Octane rating	RON	91[E 91 RON]

Ignition system Transporter/Caravelle 1.9 1982 to 1992

Type		Electronic - Hall effect
Ignition coil		Bosch
Primary resistance	ohms	0.52 to 0.76 (88: 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 @ ≤950
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1500 to 1700 ²
	° Crankshaft @ rpm	10 to 14 @ 2400 ²
	° Crankshaft @ rpm	24 to 28 @ 4200
Vacuum range check	mbar	150 to 315 ³
Maximum vacuum advance	° Crankshaft	12 to 16
Spark plugs		Bosch/Champion
Type		W7DTC / N7BYC ⁴
Electrode gap	mm	0.70 to 0.90 ⁴

Electrical system Transporter/Caravelle 1.9 1982 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 1.9 1982 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
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	3.0 / 3.7 ⁵
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+2.0±3.5 ⁶
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 1.9 1982 to 1992

Cylinder head - stage 1	Nm	10
- stage 2	Nm	50
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	45 ⁷
Main bearings	Nm	WSM
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	30 + 90°
Front hubs	Nm	WSM ⁸
Rear hubs	Nm	500
Wheel nuts / bolts	Nm	180
Spark plugs	Nm	20

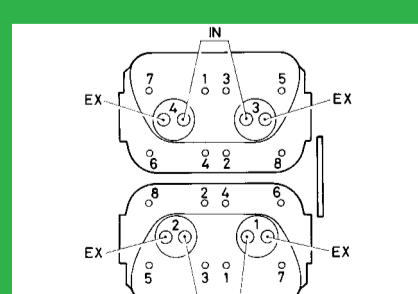
Capacities Transporter/Caravelle 1.9 1982 to 1992

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 ⁹
Cooling system	litres	17.5
Fuel tank	litres	60. 4x4: 70

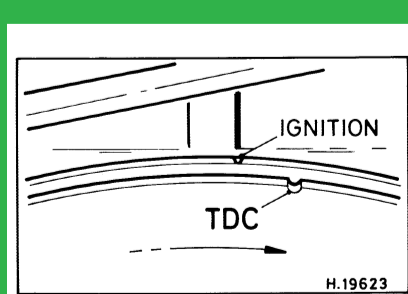
Notes and Illustrations

- ¹4x4: 100, 112.5. 85 ▶: 102.5, 110
- ²86 ▶: 0 @ 1050 to 1160, 13 to 17 @ 2400
- ³86 ▶: 150 to 330
- ⁴88 ▶: W7DCO / N7YCX, gap: 0.70 to 0.80
- ⁵4x4: 3.0 / 3.3
- ⁶4x4: WSM
- ⁷86 ▶: Stretch bolts: 30 + 180°. N
- ⁸4x4: 350
- ⁹4x4, front: 1.5, rear: WT

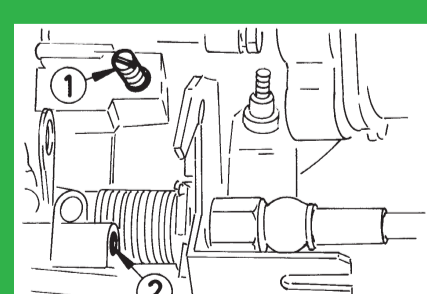
1: Idle speed 2: CO / Mixture



1913 cm³



1913 cm³



Solex 2E3 / 2E4