

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Transporter/Caravelle 1.9

1982 to 1992

Type		DF. 44kW
Capacity (cm³) / 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	750±50
Fast idle speed - manual [auto]	rpm	1900±100
CO @ idle speed [3000 rpm] - see page VI	%	1.5±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		Solex
Type / ref		34 PICT-5 025 129 027
Main jet / needle		127.5
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
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 ATDC @ 750±50
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1500 to 1700
	° Crankshaft @ rpm	6 to 10 @ 2400
	° Crankshaft @ rpm	20 to 24 @ 3800
Vacuum range check	mbar	160 to 380
Maximum vacuum advance	° Crankshaft	14 to 18
Spark plugs		Bosch/Champion
Type		W7DTC / N7BYC
Electrode gap	mm	0.70 to 0.90

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

Front suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	+2.0±3.5
Camber		0±30'
Castor		+7°15'±15'
King pin inclination		—

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	[0±20']
Camber		-30'±30'

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 ¹
Main bearings	Nm	WSM
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	30 + 90°
Front hubs	Nm	WSM
Rear hubs	Nm	500
Wheel nuts / bolts	Nm	180
Spark plugs	Nm	20

Capacities

Transporter/Caravelle 1.9

1982 to 1992

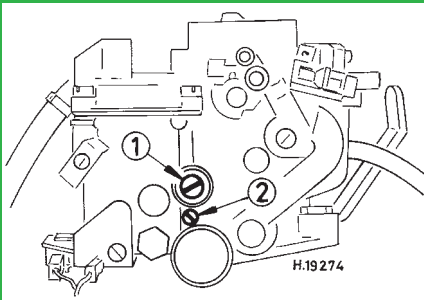
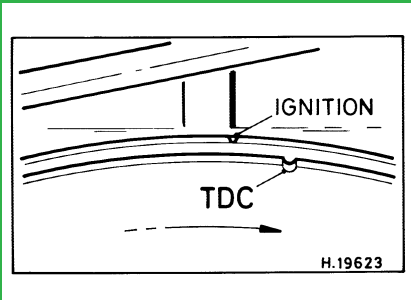
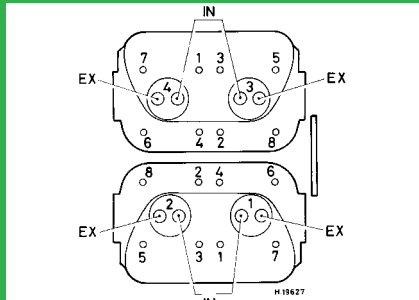
Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	3.0
Automatic transmission - refill	litres	3.0
Final drive	litres	AT: 1.3
Cooling system	litres	17.5
Fuel tank	litres	60

Notes and Illustrations

186 ▶: Stretch type bolts: 30 + 180°. N

1: Idle speed

2: CO / Mixture



1913 cm³

1913 cm³

Solex 34 PICT