

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling system90 & 9001984 to 1989

Type	B201C (1 carb). B201T (2 carb)	
Capacity (cm³) / number of cylinders	1985 / 4	
Compression ratio / pressure	bar	9.5 / _
Oil pressure	bar	[3.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20 to 0.25
- exhaust	mm	0.40 to 0.45
Firing order	1-3-4-2	
No 1 cylinder position	R	
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	0.9 to 1.2

Fuel system90 & 9001984 to 1989

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	1100±50 (175CD: 1350±50)
CO @ idle speed [3000 rpm] - see page VI	%	0.2 to 1.0¹
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	Zenith/Pierburg²	
Type / ref	2x 150 CD2, 175 CD or SEVX	
Main jet / needle	175CD: B1 DS. 150: B5 EQ²	
Injection pressure	bar	_
Pump pressure	bar	0.17 to 0.25
Octane rating	RON	97[R]

Ignition system90 & 9001984 to 1989

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	Anticlockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	20 BTDC @ 2000
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 to 3 @ 1200
	° Crankshaft @ rpm	14 to 18 @ 3000
	° Crankshaft @ rpm	24 to 28 @ 4200
Vacuum range check	mbar	160 to 480
Maximum vacuum advance	° Crankshaft	18 to 22
Spark plugs	NGK/Champion	
Type	BP6ES / N7YC	
Electrode gap	mm	0.70

Electrical system90 & 9001984 to 1989

Battery	V / CC / RC	12 / 62Ah
Alternator voltage / full load current / engine rpm	14.0 / _ / 2700	
Starter motor current / voltage - cranking	A / V	205 to 315 / 9.0
- locked	A / V	450 to 750 / 4.0 to 6.0

Running gear90 & 9001984 to 1989

Brakes -		
Front (min. friction material thickness)	mm	1.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	165x15: 175/70x15: 185/65x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.1 / 2.2³
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+2.0±1.0
Camber	+0.5°±0.5°	
Castor	+1°±0.5° [PAS: +2°±0.5°]	
King pin inclination	+11.5°±1°	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+4.0±2.0
Camber	-0.5°±0.25°	

Torque wrench settings90 & 9001984 to 1989

Cylinder head - stage 1	Nm	M15 / Torx bolts: 60⁴
- stage 2	Nm	90⁴
- stage 3	Nm	Warm up, then cool, slacken⁴
- stage 4	Nm	80 + 90⁴
Big-end bearings	Nm	55
Main bearings	Nm	110
Clutch cover	Nm	22±2
Flywheel [driveplate]	Nm	60
Front hubs	Nm	290 to 310
Rear hubs	Nm	290 to 310
Wheel nuts / bolts	Nm	90 to 110
Spark plugs	Nm	28

Capacities90 & 9001984 to 1989

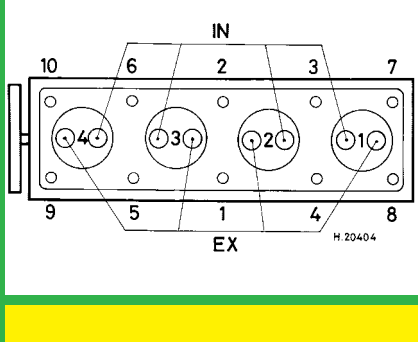
Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	2.5 [3.0]
Automatic transmission - refill	litres	2.5 to 3.0
Final drive	litres	AT: 1.4
Cooling system	litres	10.0
Fuel tank	litres	63

Notes and Illustrations

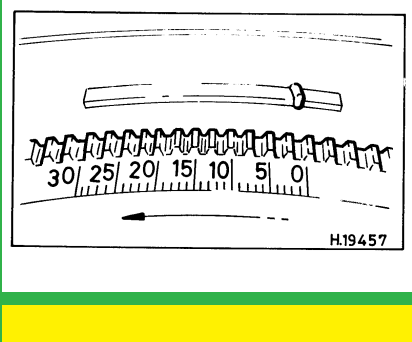
- ¹1986 ►: 1.4 to 2.0 @ 2000 rpm
- ²1987 ►: Pierburg 175 CDUS, with YC needle
- ³185 tyres: 2.0 / 2.1
- ⁴M15 hex head or M12 Torx head bolts only. M17 bolts: 1) 60, 2) 95, 3) Warm up, then cool down and slacken eachbolt in turn, 4) 95

1: Idle speed

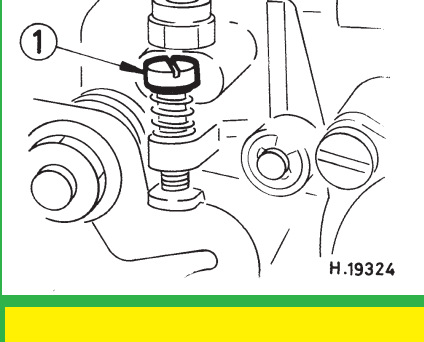
2: CO / Mixture



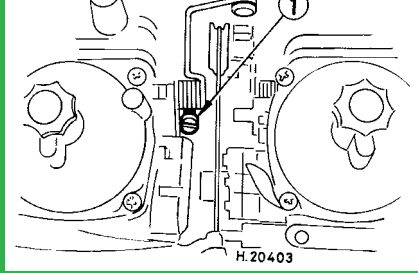
1985 cm³, 8V



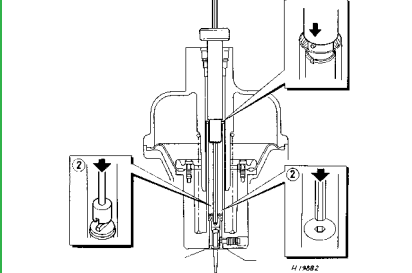
1985 cm³, 8V



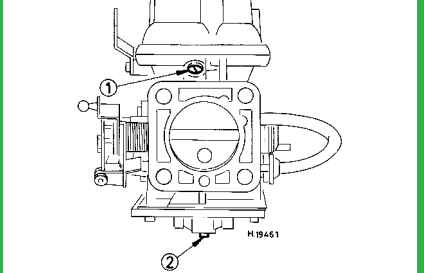
Zenith, single



Zenith, twin



Zenith



Pierburg