

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

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Engine and cooling system 190 (201.023) 1985 to 1990

Type		102.924 77kW
Capacity (cm ³) / number of cylinders		1997 / 4
Compression ratio / pressure	bar	9.1 / ≥8.5
Oil pressure	bar	0.3 [3.0]
Oil temperature	°C	–
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		F
Thermostat opening temperature	°C	87±2
Radiator cap pressure	bar	1.2±0.1

Fuel system 190 (201.023) 1985 to 1990

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	1700±100
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5 [0.1 to 1.0]
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		Stromberg
Type / ref		175 CDT
Main jet / needle		100 / UC
Injection pressure	bar	–
Pump pressure	bar	0.20 to 0.40
Octane rating	RON	98[E 95 RON]

Ignition system 190 (201.023) 1985 to 1990

Type		TSZ
Ignition coil		Bosch
Primary resistance	ohms	0.5 to 0.9
Ballast resistor	ohms	–
Voltage - Tmnl 15(+) to earth	V	Battery
Distributor		Bosch
Points gap (air gap)	mm	–
Dwell angle	° (%)	7 to 34 @ starter speed
Condenser capacity	µF	–
Rotation		–
Ignition timing - basic [static	° Crankshaft @ rpm	32±1 BTDC @ 4500
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	13±3 BTDC @ idle
Centrifugal check.	° Crankshaft @ rpm	–
Vacuum range check	° Crankshaft @ rpm	–
Maximum vacuum advance	° Crankshaft @ rpm	14 to 18 @ 1500
Spark plugs	° Crankshaft @ rpm	–
Type	° Crankshaft @ rpm	24 to 28 @ 3000
Electrode gap	mbar	–
	° Crankshaft	8 to 12
		Bosch/Champion
		H7D / S9YC
	mm	0.80

Electrical system 190 (201.023) 1985 to 1990

Battery	V / CC / RC	12 / 190 / 62Ah
Alternator voltage / full load current / engine rpm		13.0 to 14.5 / 55 / 3000
Starter motor current / voltage - cranking	A / V	–
- locked	A / V	430 to 550 / 3.2

Running gear 190 (201.023) 1985 to 1990

Brakes -		
Front (min. friction material thickness)	mm	3.5
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	185/65x15: 205/55x15
Estate / Van	Size	–
Pressure - front / rear - Saloon	bar	2.0 / 2.2
- Estate / Van	bar	–

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+20'±10']
Camber		0+10'-20'. Sport: -50'+10'-20'
Castor		+10°10'±30'. Sport:+10°40'±30'
King pin inclination		–

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+40'+15'-10']
Camber		-1°30'±30'

Torque wrench settings 190 (201.023) 1985 to 1990

Cylinder head - stage 1	Nm	55 ¹
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	–
Big-end bearings	Nm	30 + 90 to 100°
Main bearings	Nm	M12: 90 ²
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	30 + 90 to 100°
Front hubs	Nm	WSM
Rear hubs	Nm	–
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	20

Capacities 190 (201.023) 1985 to 1990

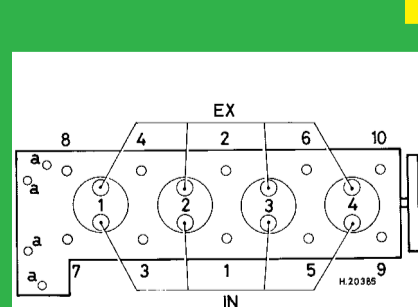
Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	1.3 [1.5]
Automatic transmission - refill	litres	5.5
Final drive	litres	0.7
Cooling system	litres	8.5
Fuel tank	litres	55. Opt: 70

Notes and Illustrations

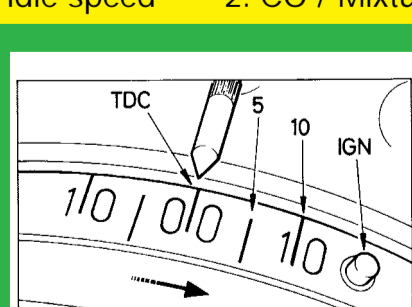
¹Bolts marked "a" on diagram: 25

²M11: 55 + 90 to 100°

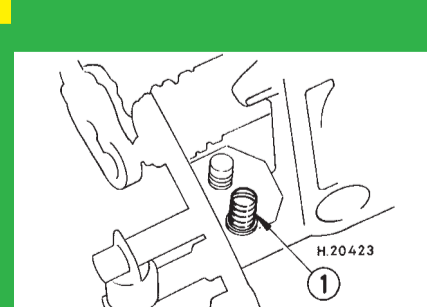
1: Idle speed 2: CO / Mixture



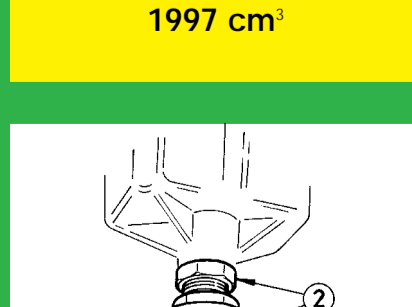
1997 cm³



1997 cm³



Stromberg 175 CDT



Stromberg 175 CDT