

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustration
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MENU

HELP

Engine and cooling system

Capacity (cm ³) / number of cylinders		M20/B27
Compression ratio / pressure	bar	2693 / 6
Oil pressure	bar	11.0 ¹ / 10 to 11
Oil temperature	°C	0.5 to 2.0
Valve clearance - inlet	mm	—
Valve clearance - exhaust	mm	0.30 H
Firing order		1-5-3-6-2-4
No 1 cylinder position		TBE
Thermostat opening temperature	°C	80
Radiator cap pressure	bar	1.0+0.1

Fuel system

Idle speed - manual [auto]	rpm	700±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.0±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		Bosch
Type / ref		DME-Motronic
Main jet / needle		—
Injection pressure	bar	2.5
Pump pressure	bar	2.5 to 3.0
Octane rating	RON	98[R]

Ignition system

Type		DME Motronic
Ignition coil		Bosch 0 221 122 319
Primary resistance	ohms	0.82
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	≥10.8
Distributor		Bosch
Points gap (air gap)	mm	[0.30 to 0.70]
Dwell angle	° (%)	—
Condenser capacity	μF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	9±3 BTDC @ 700±50
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		Bosch/Champion
Type		W8DC / N9YCX
Electrode gap	mm	0.70+0.10

Electrical system

Battery	V / CC / RC	12 / 66Ah
Alternator voltage / full load current / engine rpm		13.5 to 14.2 / _ / 1500
Starter motor current / voltage - cranking	A / V	170 / 9.0
- locked	A / V	

Running gear

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

Rear (min. Inflation Material thickness)	mm	2.0
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Tyres	
Saloon	Size 175x14: 195/70x14

Saloon	Size	175x174: 155/70x17
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	—

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+2.0±0.6
Camber		-20'±30'
Castor		+8°±30' (10° lock)
King pin inclination		+11°57'±30' (10° lock)

Rear suspension / wheel alignment

loc in () / loc out ()	mini []	Σ:0.0=0.0
loc in () / loc out ()	mini []	Σ:0.0=0.0

Camber

Torque wrench settings	535 ± (538)	1983 ± 1986
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Cylinder head - stage 1

Cylinder head	- stage 2	Nm	+ 90±3°
Cylinder head	- stage 3	Nm	+ 90±3°
	- stage 4	Nm	—
Big-end bearings		Nm	20 + 70°
Main bearings		Nm	58 to 63
Clutch cover		Nm	24. 10.9 hex: 35
Flywheel [driveplate]		Nm	105±7 locked threads
Front hubs		Nm	WSM
Rear hubs		Nm	175 to 210
Wheel nuts / bolts		Nm	100±10
Spark plugs		Nm	26±2

Capacities

Engine oil & filter	litres	4.3
Gearbox - 4-speed [5-speed]	litres	1.3
Automatic transmission - refill	litres	3.0
Final drive	litres	1.7
Cooling system	litres	11.0
Fuel tank	litres	70

Notes and Illustrations

1: Idle speed 2: CO / Mixture

