

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 Coupé S2 1990 to 1993

Type	3B (162, 91 ▶:172kW) DOHC 20V	
Capacity (cm ³) / number of cylinders	2226 / 5	
Compression ratio / pressure	bar	9.3 / ≥7.0
Oil pressure	bar	[2.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order	1-2-4-5-3	
No 1 cylinder position	TBE	
Thermostat opening temperature	°C	87
Radiator cap pressure	bar	1.2 to 1.5

Fuel system Coupé S2 1990 to 1993

Idle speed - manual [auto]	rpm	740 to 860 N/A
Fast idle speed - manual [auto]	rpm	–
CO @ idle speed [3000 rpm] - see page VI	%	–
HC @ idle speed [3000 rpm] - see page VI	ppm	–
CO ₂ @ idle speed [3000 rpm] - see page VI	%	–
O ₂ @ idle speed [3000 rpm] - see page VI	%	–
Carburettor / fuel injection	Bosch	
Type / ref	Motronic plus Turbo	
Main jet / needle	–	
Injection pressure	bar	2.4 to 2.7
Pump pressure	bar	3.0 to 3.2
Octane rating	RON	95[U]

Ignition system Coupé S2 1990 to 1993

Type	DME Motronic	
Ignition coil	Bosch	
Primary resistance	ohms	0.5 to 1.5
Ballast resistor	ohms	–
Voltage - Tmnl 15(+) to earth	V	–
Distributor	Bosch	
Points gap (air gap)	mm	–
Dwell angle	° (%)	–
Condenser capacity	µF	–
Rotation	Clockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	8 to 12 BTDC @ 770 to 830 N/A
V = Vacuum NV = No Vacuum	–	
Total ignition advance	° Crankshaft @ rpm	–
	° 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	
Type	F5DPOR	
Electrode gap	mm	0.60 to 0.70

Electrical system Coupé S2 1990 to 1993

Battery	V / CC / RC	12 / 300 / 63Ah
Alternator voltage / full load current / engine rpm	12.5 to 14.5 / _ / 3000	
Starter motor current / voltage - cranking	A / V	–
- locked	A / V	–

Running gear Coupé S2 1990 to 1993

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

Tyres		
Saloon	Size	205/55x16
Estate / Van	Size	–
Pressure - front / rear - Saloon	bar	2.3 / 2.3
- Estate / Van	bar	–

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+10'±10']
Camber		-50'±30'
Castor		+1°15'±30'
King pin inclination		–

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+20'±10']
Camber		-45'±30'

Torque wrench settings Coupé S2 1990 to 1993

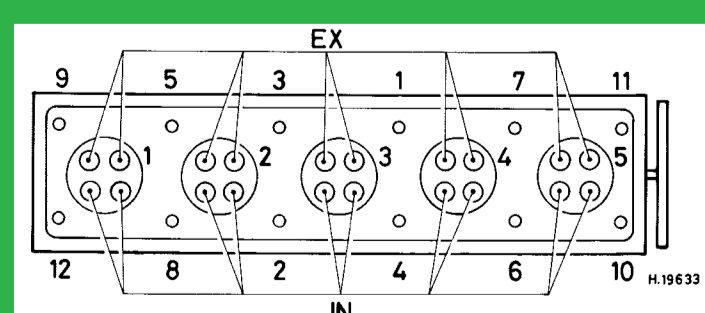
Cylinder head - stage 1	Nm	40 N
- stage 2	Nm	60
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	30 + 90°
Main bearings	Nm	65
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	70 LkC
Front hubs	Nm	M14 bolts: 120 + 90° ¹
Rear hubs	Nm	320
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	30

Capacities Coupé S2 1990 to 1993

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	2.9
Automatic transmission - refill	litres	–
Final drive	litres	Rear: 2.2
Cooling system	litres	8.5
Fuel tank	litres	70

Notes and Illustrations

¹M16: 200 + 90°



2226 cm³, 20V