

Engine & Cooling

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Automotive Technical
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Engine and cooling systemCoupé, Cabrio & Tourer 1.61996 to 1997

Type		16K16 DOHC 16V
Capacity (cm³) / number of cylinders		1589 / 4
Compression ratio / pressure	bar	10.5 /
Oil pressure	bar	1.7 to 3.5 (≤7.0)
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	88±2
Radiator cap pressure	bar	0.9 to 1.2

Fuel systemCoupé, Cabrio & Tourer 1.61996 to 1997

Idle speed - manual [auto]	rpm	875±50 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	—
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		—Rover
Type / ref		MPI
Main jet / needle		—
Injection pressure	bar	3.0±0.2
Pump pressure	bar	4.1
Octane rating	RON	95[U]

Ignition systemCoupé, Cabrio & Tourer 1.61996 to 1997

Type		MEMS
Ignition coil		NEC 100630
Primary resistance	ohms	0.63 to 0.77
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10°±5° BTDC @ 875±50
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	—
Maximum vacuum advance	° Crankshaft	—
Spark plugs		Unipart
Type		GSP6662
Electrode gap	mm	0.85

Electrical systemCoupé, Cabrio & Tourer 1.61996 to 1997

Battery	V / CC / RC	12 / 45Ah
Alternator voltage / full load current / engine rpm		/65A
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearCoupé, Cabrio & Tourer 1.61996 to 1997

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	175/65x14:185/55x15
Estate / Van	Size	175/65x14:185/55x15
Pressure - front / rear - Saloon	bar	2.1 / 2.1
- Estate / Van	bar	2.1 / 2.1

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	(-0°20'±30')
Camber		-0°20'±10'
Castor		2°+30'-0'
King pin inclination		12°07'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	(0°22'±15')
Camber		-0°22'±30'

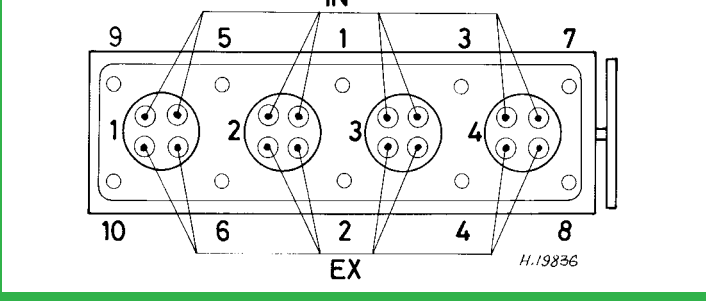
Torque wrench settingsCoupé, Cabrio & Tourer 1.61996 to 1997

Cylinder head - stage 1	Nm	20
- stage 2	Nm	+180°
Cylinder head - stage 3	Nm	+180°
- stage 4	Nm	—
Big-end bearings	Nm	20 +45°
Main bearings	Nm	WSM
Clutch cover	Nm	18
Flywheel [driveplate]	Nm	85 N
Front hubs	Nm	180 N
Rear hubs	Nm	—
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	27

CapacitiesCoupé, Cabrio & Tourer 1.61996 to 1997

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	4.5
Final drive	litres	WT
Cooling system	litres	4.7
Fuel tank	litres	50

Notes and Illustrations



H19836
1589 cm³ 16V