

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system414i1995 to 1997

Type		K16 DOHC 16V
Capacity (cm³) / number of cylinders		1396 / 4
Compression ratio / pressure	bar	10.0 /
Oil pressure	bar	1.7 to 3.5
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 system414i1995 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 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		—Rover
Type / ref		MEMS MPI
Main jet / needle		—
Injection pressure	bar	3.0±0.2
Pump pressure	bar	4.1
Octane rating	RON	95[U]

Ignition system414i1995 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		—
Ignition timing - basic [static V = Vacuum NV = No Vacuum	° Crankshaft @ rpm	Computer control N/A
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		Unipart
Type		GSP6662
Electrode gap	mm	0.85

Electrical system414i1995 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 gear414i1995 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	—
Pressure - front / rear - Saloon	bar	2.1 / 2.1
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[0°±0°12']
Camber		0°±1°
Castor		1°28'
King pin inclination		10°41'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+11'±6'] PW
Camber		-55'

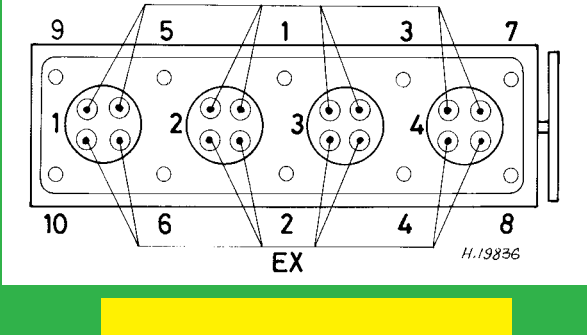
Torque wrench settings414i1995 to 1997

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	—
Clutch cover	Nm	18
Flywheel [driveplate]	Nm	—
Front hubs	Nm	181
Rear hubs	Nm	181
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	27

Capacities414i1995 to 1997

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	5.0. A/C: 5.3
Fuel tank	litres	55

Notes and Illustrations



1396 cm³, DOHC 16V