

Engine & Cooling

Fuel

Ignition

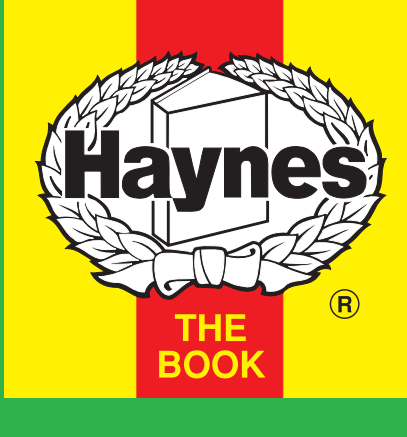
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system820 CAT1991 to 1996

Type		20T4 DOHC 16V 101kW
Capacity (cm³) / number of cylinders		1994 / 4
Compression ratio / pressure	bar	10.0 / _
Oil pressure	bar	0.7 [3.8]
Oil temperature	°C	_
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	1.04

Fuel system820 CAT1991 to 1996

Idle speed - manual [auto]	rpm	875±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
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		Indirect MPI (H) with MEMS
Main jet / needle		_
Injection pressure	bar	3.0 above manifold
Pump pressure	bar	4.1
Octane rating	RON	95[U]

Ignition system820 CAT1991 to 1996

Type		MEMS
Ignition coil		NEC10035 or 10036
Primary resistance	ohms	0.71 to 0.81
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Lucas
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	12±6 BTDC @ 875±50
V = Vacuum NV = No Vacuum		V
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		Unipart
Type		GSP6662
Electrode gap	mm	0.85

Electrical system820 CAT1991 to 1996

Battery	V / CC / RC	12 / 480 / 90 or 570 / 110
Alternator voltage / full load current / engine rpm		14.0 / 85 or 100 / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear820 CAT1991 to 1996

Brakes -		
Front (min. friction material thickness)	mm	8.2 with backing plate
Rear (min. friction material thickness)	mm	7.2 with backing plate

Tyres		
Saloon	Size	195/65x15: 205/55x16
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 2.0¹
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[0±15']
Camber		+24'±1°12'
Castor		+2°11'±2° N/A
King pin inclination		+7°37'±1°12' N/A

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+22'±15']
Camber		+18'±1°12' N/A

Torque wrench settings820 CAT1991 to 1996

Cylinder head - stage 1	Nm	45
- stage 2	Nm	MSPS: 80. KX: 70
- stage 3	Nm	+90°
- stage 4	Nm	_
Big-end bearings	Nm	55
Main bearings	Nm	110
Clutch cover	Nm	26
Flywheel [driveplate]	Nm	110
Front hubs	Nm	415
Rear hubs	Nm	245
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	27

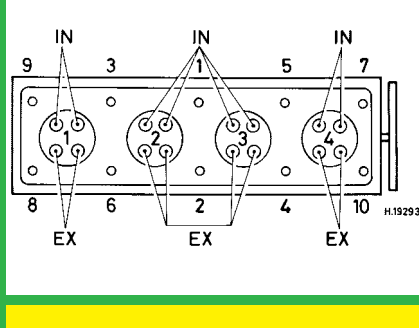
Capacities820 CAT1991 to 1996

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	2.3
Automatic transmission - refill	litres	2.0
Final drive	litres	WT
Cooling system	litres	8.0
Fuel tank	litres	68

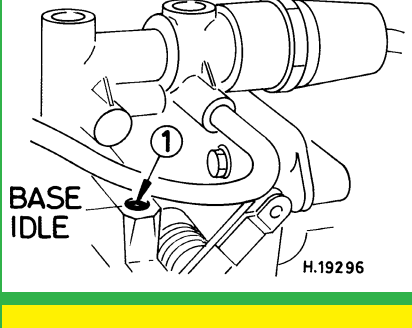
Notes and Illustrations



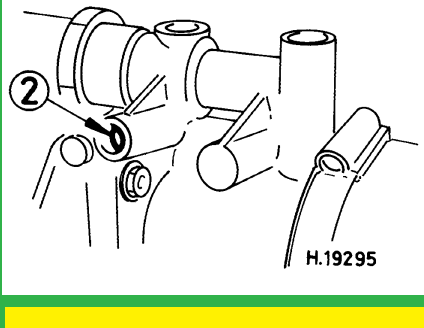
1: Idle speed 2: CO / Mixture



1994 cm³, 16V



Rover MPI



Rover MPI