

Engine & Cooling

Fuel

Ignition

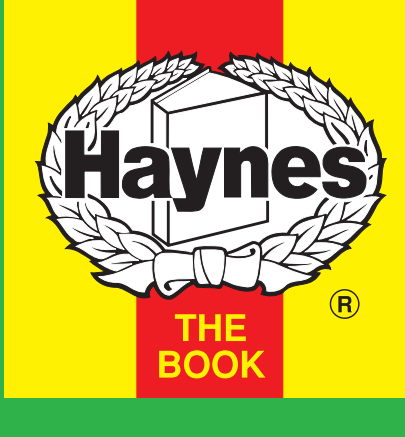
Electrical

Running gear

Torque settings

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Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system820 Turbo CAT1992 to 1997

Type		20T4 DOHC 16V Turbo 134kW
Capacity (cm³) / number of cylinders		1994 / 4
Compression ratio / pressure	bar	8.51 / _
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 Turbo CAT1992 to 1997

Idle speed - manual [auto]	rpm	825±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±0.2
Pump pressure	bar	4.3
Octane rating	RON	95[U]

Ignition system820 Turbo CAT1992 to 1997

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 Turbo CAT1992 to 1997

Battery	V / CC / RC	12 / 480 / 90
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 Turbo CAT1992 to 1997

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	205/55x16
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- 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 Turbo CAT1992 to 1997

Cylinder head - stage 1	Nm	45
- stage 2	Nm	80
- 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

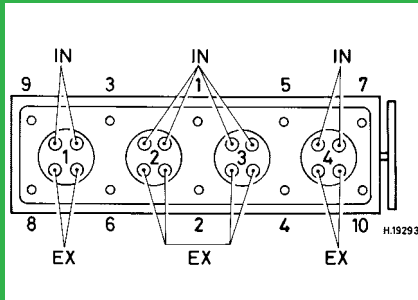
Capacities820 Turbo CAT1992 to 1997

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

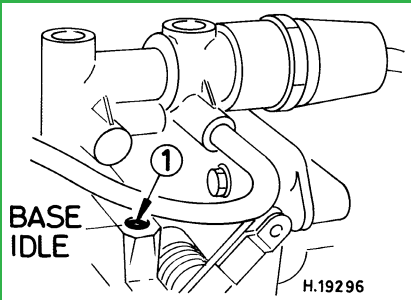
Notes and Illustrations



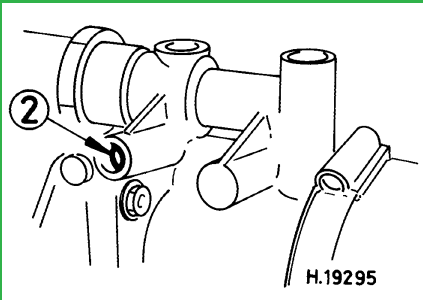
1: Idle speed 2: CO / Mixture



1994 cm³, 16V



Rover MPI



Rover MPI