

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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Engine and cooling system 620 Turbo 1994 to 1997

Type	20T4 16V DOHC	
Capacity (cm ³) / number of cylinders	1994 / 4	
Compression ratio / pressure	bar	8.5/_
Oil pressure	bar	0.7
Oil temperature	°C	80
Valve clearance - inlet	mm	0.24 - 0.28 C
Valve clearance - exhaust	mm	0.28 - 0.32 C
Firing order	1-3-4-2	
No 1 cylinder position	TBE	
Thermostat opening temperature	°C	82 to 86
Radiator cap pressure	bar	0.9 - 1.0

Fuel system 620 Turbo 1994 to 1997

Idle speed - manual [auto]	rpm	800±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
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ 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	—
Octane rating	RON	95[U]

Ignition system 620 Turbo 1994 to 1997

Type	MEMS	
Ignition coil	Unipart/GCL 199	
Primary resistance	ohms	0.71 - 0.81
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	14° ± 2° BTDC
V = Vacuum NV = No Vacuum	V	
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	GSP 6662	
Electrode gap	mm	0.85

Electrical system 620 Turbo 1994 to 1997

Battery	V / CC / RC	12v 90AH
Alternator voltage / full load current / engine rpm	—	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear 620 Turbo 1994 to 1997

Brakes -		
Front (min. friction material thickness)	mm	3
Rear (min. friction material thickness)	mm	3

Tyres		
Saloon	Size	205/50x16
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.4 / 2.2
- Estate / Van	bar	—

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+ 0 ± 3mm
Camber	0 ± 1°	
Castor	+ 3° ± 1°	
King pin inclination	—	

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+ 2.0 ± 2.0mm
Camber	- 30' ± 30'	

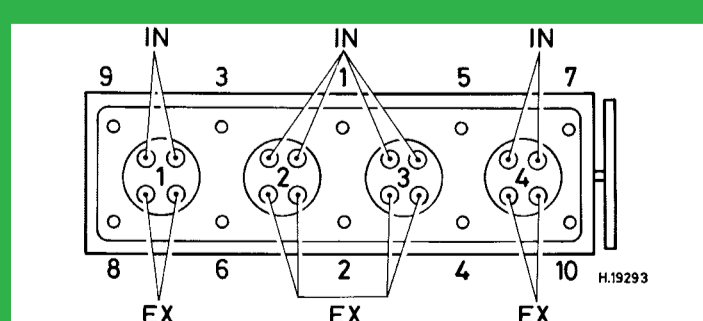
Torque wrench settings 620 Turbo 1994 to 1997

Cylinder head - stage 1	Nm	45 oiled
- stage 2	Nm	Type A: 80. B:70
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	—
Big-end bearings	Nm	32
Main bearings	Nm	35 Oiled, then 75
Clutch cover	Nm	26
Flywheel [driveplate]	Nm	110 N
Front hubs	Nm	250
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

Capacities 620 Turbo 1994 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	7.0
Fuel tank	litres	65

Notes and Illustrations



1994 cm³, 16V