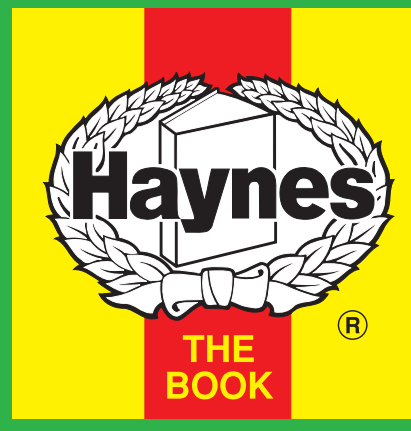


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# Automotive Technical DATA BOOK

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## Engine and cooling system Range Rover 4.0 1994 to 1997

Type	4.0 V8 OHV 142kW	
Capacity (cm <sup>3</sup> ) / number of cylinders	3947 / 8	
Compression ratio / pressure	bar	9.35 / ≥9.3
Oil pressure	bar	[2.1 to 2.8]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order	1-8-4-3-6-5-7-2	
No 1 cylinder position	FL	
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	1.00

## Fuel system Range Rover 4.0 1994 to 1997

Idle speed - manual [auto]	rpm	700±20
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	—
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	Sagem/Lucas	
Type / ref	GEMS8	
Main jet / needle	—	
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	95[U]

## Ignition system Range Rover 4.0 1994 to 1997

Type	Direct electronic	
Ignition coil	Lucas 2DIS2	
Primary resistance	ohms	—
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
Centrifugal check.	° Crankshaft @ rpm	Computer control
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs	Champion	
Type	RN11YCC	
Electrode gap	mm	0.90 to 1.00

## Electrical system Range Rover 4.0 1994 to 1997

Battery	V / CC / RC	—
Alternator voltage / full load current / engine rpm	13.6 to 14.4 / 100, 105, 120 /	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

## Running gear Range Rover 4.0 1994 to 1997

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0
<b>Tyres</b>		
Saloon	Size	—
Estate / Van	Size	235/70x16: 255/70x16
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	1.7 / 1.7
<b>Front suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	-0.6 to -1.8
Camber	0	
Castor	+4°	
King pin inclination	+8°	
<b>Rear suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	—
Camber	—	

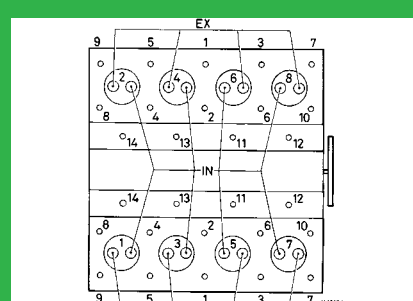
## Torque wrench settings Range Rover 4.0 1994 to 1997

Cylinder head - stage 1	Nm	20
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	—
Big-end bearings	Nm	20 + 80°
Main bearings	Nm	14 then 72. Side: 14 then 45
Clutch cover	Nm	40
Flywheel [driveplate]	Nm	78
Front hubs	Nm	260
Rear hubs	Nm	—
Wheel nuts / bolts	Nm	108
Spark plugs	Nm	20

## Capacities Range Rover 4.0 1994 to 1997

Engine oil & filter	litres	6.6
Gearbox - 4-speed [5-speed]	litres	2.7. Transfer: 2.4
Automatic transmission - refill	litres	9.7. Transfer: 2.4
Final drive	litres	Front & rear: 1.7
Cooling system	litres	11.3
Fuel tank	litres	100

## Notes and Illustrations



3947 cm<sup>3</sup>