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# Automotive Technical DATA BOOK

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HELP

## Engine and cooling system Range Rover 4.2i CAT 1992 to 1994

Type		4.2L V8 OHV 149kW
Capacity (cm <sup>3</sup> ) / number of cylinders		4278 / 8
Compression ratio / pressure	bar	8.94 / ≥9.3
Oil pressure	bar	[2.1 to 2.8]
Oil temperature	°C	–
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	1.04

## Fuel system Range Rover 4.2i CAT 1992 to 1994

Idle speed - manual [auto]	rpm	525±25 Base idle
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
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		Lucas
Type / ref		L-Jetronic Hot Wire
Main jet / needle		–
Injection pressure	bar	–
Pump pressure	bar	2.3 to 2.6
Octane rating	RON	95[U]

## Ignition system Range Rover 4.2i CAT 1992 to 1994

Type		Electronic
Ignition coil		Bosch
Primary resistance	ohms	–
Ballast resistor	ohms	–
Voltage - Tmnl 15(+) to earth	V	–
Distributor		Lucas
Points gap (air gap)	mm	[0.20 to 0.36]
Dwell angle	° (%)	–
Condenser capacity	µF	–
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	–
V = Vacuum NV = No Vacuum		–
Total ignition advance	° Crankshaft @ rpm	–
	° Crankshaft @ rpm	–
	° Crankshaft @ rpm	–
Centrifugal check.	° Crankshaft @ rpm	–
	° Crankshaft @ rpm	–
	° Crankshaft @ rpm	–
Vacuum range check	mbar	–
Maximum vacuum advance	° Crankshaft	–
Spark plugs		Champion
Type		RN12YCC
Electrode gap	mm	0.85 to 0.95

## Electrical system Range Rover 4.2i CAT 1992 to 1994

Battery	V / CC / RC	12 / 210 / 85 or / 380 / 120
Alternator voltage / full load current / engine rpm		13.6 to 14.4 / 85, 100 / 3000
Starter motor current / voltage - cranking	A / V	–
- locked	A / V	–

## Running gear Range Rover 4.2i CAT 1992 to 1994

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	–
Rear (min. friction material thickness)	mm	–

<b>Tyres</b>		
Saloon	Size	–
Estate / Van	Size	205x16
Pressure - front / rear - Saloon	bar	–
- Estate / Van	bar	WSM

## Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	-1.2 to -2.4
Camber		0
Castor		+3°
King pin inclination		+7°

## Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	–
Camber		–

## Torque wrench settings Range Rover 4.2i CAT 1992 to 1994

Cylinder head - stage 1	Nm	No 1 to 10: 88 to 95
- stage 2	Nm	No11 to 14: 54 to 61
Cylinder head - stage 3	Nm	–
- stage 4	Nm	–
Big-end bearings	Nm	47 to 54
Main bearings	Nm	<sup>1</sup>
Clutch cover	Nm	24 to 30
Flywheel [driveplate]	Nm	74 to 81
Front hubs	Nm	41 to 52
Rear hubs	Nm	41 to 52
Wheel nuts / bolts	Nm	Steel: 102 to 115 <sup>2</sup>
Spark plugs	Nm	19 to 22

## Capacities Range Rover 4.2i CAT 1992 to 1994

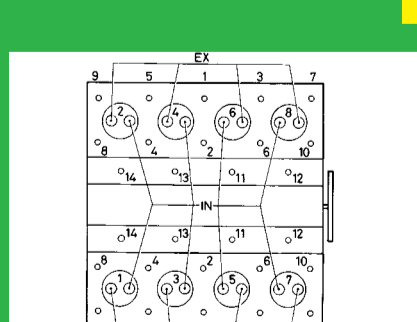
Engine oil & filter	litres	5.7
Gearbox - 4-speed [5-speed]	litres	2.7. Transfer:2.5
Automatic transmission - refill	litres	9.1. Transfer: 2.5
Final drive	litres	Front & rear: 1.7
Cooling system	litres	11.3
Fuel tank	litres	88.5

## Notes and Illustrations

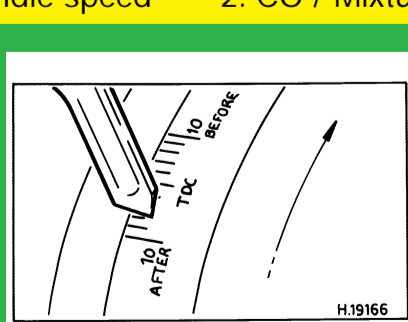
<sup>1</sup>No 1 to 4: 68 to 75. Others: 88 to 95

<sup>2</sup>Alloy: 122 to 129

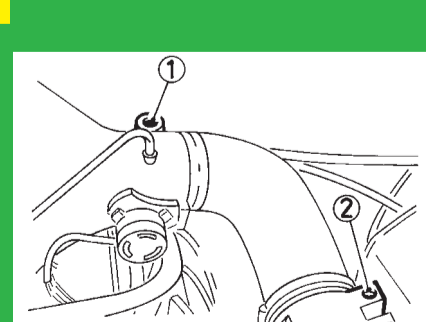
1: Idle speed 2: CO / Mixture



4278 cm<sup>3</sup>



4278 cm<sup>3</sup>



L-Jetronic