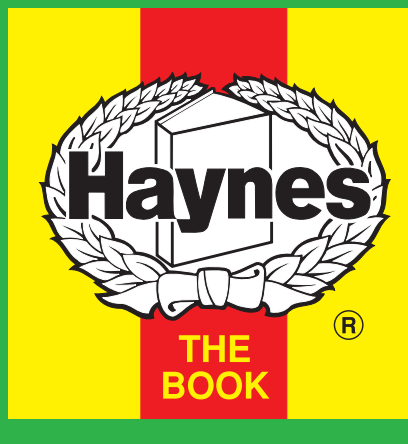


Engine & Cooling Fuel Ignition Electrical Running gear Torque settings Capacities Notes & Illustrations



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.

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HELP

Engine and cooling system Range Rover EFi 1986 to 1989

Type		V8
Capacity (cm ³) / number of cylinders		3528 / 8
Compression ratio / pressure	bar	9.35 / ≥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 EFi 1986 to 1989

Idle speed - manual [auto]	rpm	700 to 800
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 ₂ @ idle speed [3000 rpm] - see page VI	%	–
O ₂ @ idle speed [3000 rpm] - see page VI	%	–
Carburettor / fuel injection		Lucas-Bosch
Type / ref		L electronic
Main jet / needle		–
Injection pressure	bar	–
Pump pressure	bar	1.8 to 2.5
Octane rating	RON	94[R]

Ignition system Range Rover EFi 1986 to 1989

Type		Electronic
Ignition coil		Lucas 2CE or 32C5
Primary resistance	ohms	0.71 to 0.81
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	TDC±1 @ 600
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	–
	° Crankshaft @ rpm	–
	° Crankshaft @ rpm	–
Centrifugal check.	° Crankshaft @ rpm	3 to 8 @ 1200
	° Crankshaft @ rpm	18 to 22 @ 2200
	° Crankshaft @ rpm	22 to 28 @ 3200
Vacuum range check	mbar	–
Maximum vacuum advance	° Crankshaft	–
Spark plugs		Champion
Type		RN9YCC
Electrode gap	mm	0.70 to 0.80 ¹

Electrical system Range Rover EFi 1986 to 1989

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

Running gear Range Rover EFi 1986 to 1989

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

Tyres		
Saloon	Size	–
Estate / Van	Size	205x16: 215/75x16
Pressure - front / rear - Saloon	bar	–
- Estate / Van	bar	1.9 / 2.1

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 EFi 1986 to 1989

Cylinder head - stage 1	Nm	No 1 to 10: 88 to 95
- stage 2	Nm	No 11 to 14: 54 to 61
Cylinder head - stage 3	Nm	–
- stage 4	Nm	–
Big-end bearings	Nm	47 to 54
Main bearings	Nm	²
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 ³
Spark plugs	Nm	19 to 22

Capacities Range Rover EFi 1986 to 1989

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	80

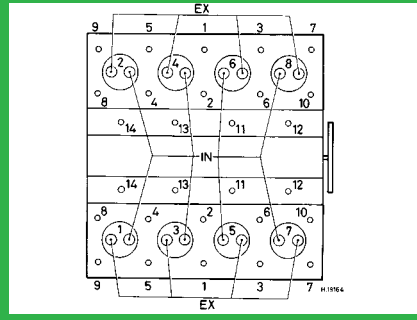
Notes and Illustrations

¹1987 ▶: 0.85 to 0.95

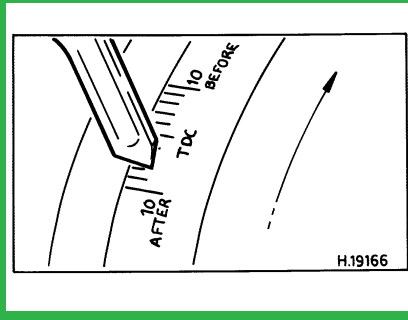
²No 1 to 4: 68 to 75. Others: 88 to 95

³Alloy: 122 to 129

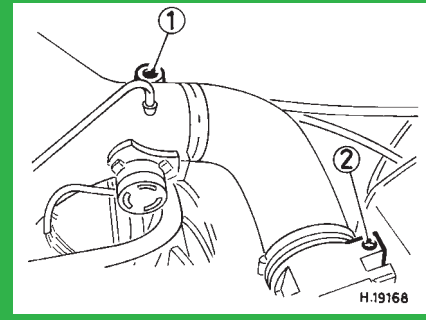
1: Idle speed 2: CO / Mixture



3528 cm³



3528 cm³



L electronic injection