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Automotive Technical DATA BOOK

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HELP

Engine and cooling system Range Rover 1987 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 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 1.04

Fuel system Range Rover 1987 to 1989

Idle speed - manual [auto]	rpm 700 to 800
Fast idle speed - manual [auto]	rpm 1050 to 1150
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	SU
Type / ref	2x HIF44 / FZX 2006
Main jet / needle	0.100 / BGD
Injection pressure	bar -
Pump pressure	bar 0.28 to 0.41
Octane rating	RON 94[R]

Ignition system Range Rover 1987 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 ≤6±1 BTDC @ 750
V = Vacuum NV = No Vacuum	NV
Total ignition advance	° Crankshaft @ rpm -
	° Crankshaft @ rpm -
	° Crankshaft @ rpm -
Centrifugal check.	° Crankshaft @ rpm 5 to 9 @ 2000
	° Crankshaft @ rpm 12 to 16 @ 2900
	° Crankshaft @ rpm 11 to 18 @ 5600
Vacuum range check	mbar -
Maximum vacuum advance	° Crankshaft -
Spark plugs	Champion
Type	RN9YCC
Electrode gap	mm 0.85 to 0.95

Electrical system Range Rover 1987 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 1987 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	1.7 / 2.4

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 1987 to 1989

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	¹
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 ²
Spark plugs	Nm	-

Capacities Range Rover 1987 to 1989

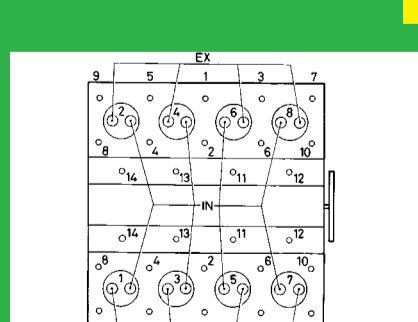
Engine oil & filter	litres	5.7
Gearbox - 4-speed [5-speed]	litres	2.7. Transfer:2.5
Automatic transmission - refill	litres	9.1 Transfer: 2.5
Final drive	litres	Front & rear: 1.7
Cooling system	litres	11.3
Fuel tank	litres	80

Notes and Illustrations

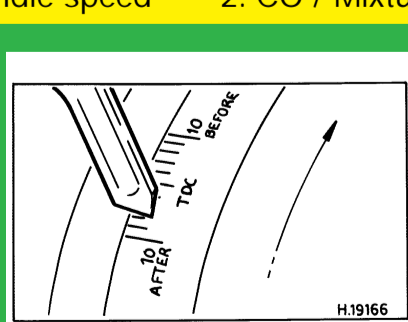
¹No 1 to 4: 68 to 75. Others: 88 to 95

²Alloy: 122 to 129

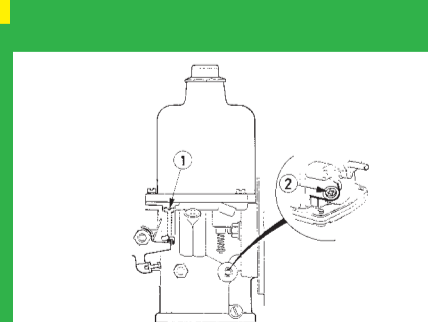
1: Idle speed 2: CO / Mixture



3528 cm³



3528 cm³



SU HIF 44