LAND ROVER

Range Rover EFi

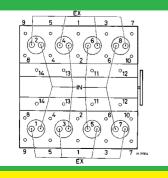
1986 to 1989

Engine & Fuel Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Engine and cooling syst	tem		Range Ro		986 to 1989
Type Capacity (cm ³) / number of cylinde			V8 3528 / 8		
Compression ratio / pressure Oil pressure Oil temperature		bar bar °C	9.35 / ≥9.3 [2.1 to 2.8]		
Valve clearance - inlet Valve clearance - exhaust		mm mm	0: Hyd. 0: Hyd.	7.0	
Firing order No 1 cylinder position Thermostat opening temperature		°C	1-8-4-3-6-5-7 FL 88	/-2	
Radiator cap pressure Fuel system		bar	1.04 Range Ro	over EFi 1	986 to 1989
Idle speed - manual [auto] Fast idle speed - manual [auto]		rpm rpm	700 to 800		
CO @ idle speed [3000 rpm] - see HC @ idle speed [3000 rpm] - see CO2 @ idle speed [3000 rpm] - see	page VI	% ppm %	≤0.5 N/A ≤200		
O2 @ idle speed [3000 rpm] - see Carburettor / fuel injection Type / ref		%	Lucas-Bosch		
Main jet / needle		bar	L electronic		
Pump pressure Octane rating		bar RON	1.8 to 2.5 94[R]		
Ignition system Type			Electronic		986 to 1989
Ignition coil Primary resistance Ballast resistor		ohms ohms	Lucas 2CE or 0.71 to 0.81	r 32C5	
Voltage - Tmnl 15(+) to earth Distributor		V	_ Lucas [0.20 to 0.36]		
Points gap (air gap) Dwell angle Condenser capacity		mm ° (%) μF			
Rotation Ignition timing - basic [static V = Vacuum NV = No Vacuu	° Crankshaft	@ rpm	Clockwise TDC±1 @ 600 NV)	
Total ignition advance	 ° Crankshaft ° Crankshaft 	@ rpm	_		
Centrifugal check.	 ° Crankshaft ° Crankshaft ° Crankshaft 	@ rpm	- 3 to 8 @ 1200 18 to 22 @ 22		
Vacuum range check Maximum vacuum advance	° Crankshaft ° Cran	@ rpm mbar Ikshaft	22 to 28 @ 32 -	200	
Spark plugs Type	ord.		Champion RN9YCC		
Electrode gap Electrical system		mm	0.70 to 0.80 ¹ Range Ro	over EFi 1	<mark>986 to 1989</mark>
Battery Alternator voltage / full load curren Starter motor current / voltage - cr	t / engine rpm	C / RC	12 / 210 / 85 13.6 to 14.4 /		20
Ŭ	cked	A / V	- - Pange Pr	wer FFi 1	986 to 1989
Brakes - Front (min. friction material thic	ckness)	mm	-		
Rear (min. friction material thic Tyres Saloon	kness)	mm Size	_		
Estate / Van Pressure - front / rear - Saloon		Size bar	205x16: 215/	75x16	
- Estate Front suspension / wheel alignm Toe-in (+) / Toe-out (–)	ent	bar mm [º]	1.9 / 2.1 -1.2 to -2.4		
Camber Castor King pin inclination			0 +3° +7°		
Rear suspension / wheel alignme Toe-in (+) / Toe-out (–)		mm [º]	_		
Camber Torque wrench settings			- Range Ro	over EFi 1	986 to 1989
Cylinder head - stage 1 - stage 2 Cylinder head - stage 3		Nm Nm Nm	No 1 to 10: 8 No 11 to 14:		
- stage 4 Big-end bearings		Nm Nm	– – 47 to 54		
Main bearings Clutch cover Flywheel [driveplate]		Nm Nm Nm	² 24 to 30 74 to 81		
Front hubs Rear hubs		Nm Nm	41 to 52 41 to 52	1153	
Wheel nuts / bolts Spark plugs		Nm Nm	Steel: 102 to 19 to 22		
Capacities Engine oil & filter Gearbox - 4-speed [5-speed]		litres litres	Range Ro 5.7 2.7. Transfer:		986 to 1989
Automatic transmission - refill Final drive		litres litres	9.1. Transfer: Front & rear:	2.5	
Cooling system Fuel tank		litres litres	11.3 80		

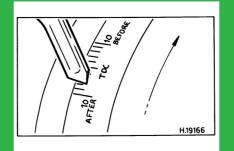
Notes and Illustrations

¹1987 ▶: 0.85 to 0.95 ²No 1 to 4: 68 to 75. Others: 88 to 95 ³Alloy: 122 to 129

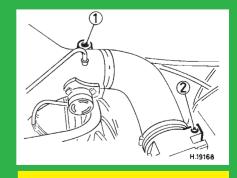
1: Idle speed 2: CO / Mixture



3528 cm³



3528 cm³



L electronic injection