LAND ROVER

Range Rover 3.9 EFi (LC)

Torque

settings

1989 to 1992

Capacities

Engine & Electrical **Fuel** Ignition Cooling

Automotive Technical

Running

gear

return to this screen and make another choice, click anywhere on the data screen. **MENU HELP** Range Rover 3.9 EFi (LC) 1989 to 1992

Click on one of the buttons above to view data for this car. To

3.9L V8 134kW

1989 to 1992

Notes &

Illustrations

Oil pressure	
Oil temperature	
Valve clearance - inlet	
Valve clearance - exhaust	

Firing order No 1 cylinder position Thermostat opening temperature

Radiator cap pressure Fuel system Idle speed - manual [auto] Fast idle speed - manual [auto]

CO @ idle speed [3000 rpm] - see page VI HC @ idle speed [3000 rpm] - see page VI CO2 @ idle speed [3000 rpm] - see page VI

O2 @ idle speed [3000 rpm] - see page VI Carburettor / fuel injection Type / ref Main jet / needle Injection pressure

Pump pressure Octane rating **Ignition system** Type Ignition coil

Primary resistance Ballast resistor Voltage - Tmnl 15(+) to earth Distributor Points gap (air gap) Dwell angle

Condenser capacity Rotation Ignition timing - basic [static V = Vacuum NV = No Vacuum Total ignition advance

Vacuum range check Maximum vacuum advance Spark plugs Type Electrode gap **Electrical system**

Centrifugal check.

Alternator voltage / full load current / engine rpm Starter motor current / voltage - cranking Running gear Brakes -

Battery

Front (min. friction material thickness) Rear (min. friction material thickness) **Tyres** Saloon Estate / Van Pressure - front / rear - Saloon

Front suspension / wheel alignment Toe-in (+) / Toe-out (-) Camber Castor King pin inclination

Toe-in (+) / Toe-out (-) Camber Torque wrench settings Cylinder head - stage 1 - stage 2 Cylinder head - stage 3

Rear suspension / wheel alignment

- stage 4 Big-end bearings Main bearings Clutch cover Flywheel [driveplate] Front hubs Rear hubs

Wheel nuts / bolts

Spark plugs

Final drive

Capacities

Engine oil & filter

Cooling system

Gearbox - 4-speed [5-speed]

Automatic transmission - refill

Fuel tank **Notes and Illustrations** No 1 to 4: 68 to 75. Others: 88 to 95 ²Alloy: 122 to 129

Engine and cooling system Capacity (cm³) / number of cylinders Compression ratio / pressure

bar bar

°C mm

3947 / 8 8.13 / > 9.3 [2.1 to 2.8] mm

0: Hyd. 0: Hyd. 1-8-4-3-6-5-7-2 FL °C 88 bar 1.04 Range Rover 3.9 EFi (LC) rpm

525±25 Base idle rpm % ≤0.5 N/A ppm ≤200 % % Lucas

bar bar **RON**

Hot Wire 2.3 to 2.6 91[E 91 RON] Range Rover 3.9 EFi (LC) Electronic

Bosch 0221 122 392 Lucas [0.20 to 0.36]

ohms

ohms

٧

mm ° (%)

μF

mbar

mm

A/V

A/V

mm

mm

Size

Size

bar

bar

mm [°]

mm [°]

Nm

litres

° Crankshaft

V/CC/RC

locked

- Estate / Van

° Crankshaft @ rpm

° Crankshaft @ rpm ° Crankshaft @ rpm ° Crankshaft @ rpm

° Crankshaft @ rpm

° Crankshaft @ rpm

° Crankshaft @ rpm

Clockwise 2±1 @ 800 NV

4 to 8 @ 1600

12 to 17 @ 2800

11 to 17 @ 4000 Champion RN12YCC 0.80 Range Rover 3.9 EFi (LC)

12 / 210 / 85 or / 380 / 120 13.6 to 14.4 / _ / 3000 Range Rover 3.9 EFi (LC)

205x16 1.9 / 2.1 -1.2 to -2.4

+3° +7°

Range Rover 3.9 EFi (LC) No 1 to 10: 88 to 95

No11 to 14: 54 to 61

19 to 22

5.7

Steel: 102 to 115 ²

Range Rover 3.9 EFi (LC)

2.7. Transfer:2.5

9.1. Transfer: 2.5

Hot wire injection



1: Idle speed

litres litres litres litres litres

Front & rear: 1.7 11.3 76.4. 91 MY: 81.8

2: CO / Mixture H.19166

3947 cm³