LAND ROVER

Discovery V8i CAT

1990 to 1995

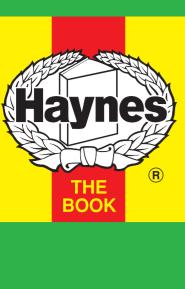
Engine & Electrical **Fuel** Ignition Cooling

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical

make another choice, click anywhere on the data screen. **MENU HELP Discovery V8i CAT** 1990 to 1995

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

on prossure	
Oil temperature	
Valve clearance - inlet	
Male and a service and a service to the service to	

Engine and cooling system

Capacity (cm³) / number of cylinders

Compression ratio / pressure

Oil pressure

alve 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 Ballast resistor

Primary resistance Voltage - Tmnl 15(+) to earth Dwell angle

Distributor Points gap (air gap) Condenser capacity Rotation Ignition timing - basic [static

V = Vacuum NV = No Vacuum Total ignition advance Centrifugal check.

Maximum vacuum advance Spark plugs Type Electrode gap **Electrical system Battery** Alternator voltage / full load current / engine rpm

Vacuum range check

Starter motor current / voltage - cranking Running gear Brakes -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 Rear suspension / wheel alignment Toe-in (+) / Toe-out (-) Camber Torque wrench settings

Cylinder head - stage 1 - stage 2 Cylinder head - stage 3 - stage 4 Big-end bearings

Main bearings

Flywheel [driveplate]

Wheel nuts / bolts

Clutch cover

Front hubs

Rear hubs

Spark plugs

Fuel tank

Capacities

Engine oil & filter Gearbox - 4-speed [5-speed] Automatic transmission - refill Final drive Cooling system

Notes and Illustrations

¹Base idle: 525±25

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

bar

bar

°C

bar

rpm

rpm

ppm

%

% %

bar

bar

RON

ohms

ohms

٧

mm ° (%)

μF

mbar

mm

A/V

A/V

mm

mm

Size

Size

bar

bar

mm [°]

mm [°]

Nm

litres

litres

litres

litres

litres

litres

2: CO / Mixture

° Crankshaft

V / CC / RC

locked

- Estate / Van

° Crankshaft @ rpm

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

° Crankshaft @ rpm ° Crankshaft @ rpm

° Crankshaft @ rpm

V8 OHV 114kW 3528 / 8 $8.13 / \geq 9.3$ [1.9]°C 80 mm mm

0: Hyd. 0: Hyd. 1-8-4-3-6-5-7-2 FL 82 1.04 **Discovery V8i CAT**

665 to 735 ECU control¹ 1100±50 0.5 to 1.0 ≤1200 Lucas Hot wire

91[U] **Discovery V8i CAT** Electronic Bosch 0221-122-392

Lucas [0.20 to 0.35]

Clockwise 6±1 BTDC @ 800 NV

3 to 7 @ 1200 17 to 21 @ 2800 16 to 22 @ 4600 Champion RN12YC 0.84 to 0.96

Discovery V8i CAT 12 / 380 / 120

14.2±0.25 / _ / 3000 **Discovery V8i CAT**

205x16: 235/70x16

Discovery V8i CAT

No 1 to 10: 88 to 95

No11 to 14: 54 to 61

Discovery V8i CAT

2.7. Transfer:2.5

Front & rear: 1.7

1.9 / 2.6

+3°

+7°

47 to 54

24 to 30

74 to 81

129

5.7

9.1

88.6

-1.2 to -2.4

1990 to 1995

3528 cm³

1: Idle speed

H.19166 Hot wire injection

3528 cm³