## LAND ROVER

Defender 90, 110, 130 V8

1990 to 1994

Engine & **Fuel** Ignition Cooling

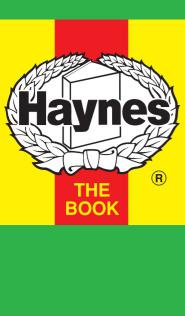
Electrical

Torque

settings

Capacities

Notes & Illustrations



Automotive Technical

data for this car. To return to this screen and make another choice, click anywhere on the data screen. **MENU HELP** 1990 to 1994

Click on one of the buttons above to view

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

**Engine and cooling system** 

Capacity (cm<sup>3</sup>) / number of cylinders

Compression ratio / pressure

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 Centrifugal check. Vacuum range check Maximum vacuum advance

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

Cylinder head - stage 3

- stage 2

- stage 4

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

Spark plugs **Capacities** Engine oil & filter Gearbox - 4-speed [5-speed] Automatic transmission - refill Final drive

Wheel nuts / bolts

Cooling system Fuel tank **Notes and Illustrations** <sup>1</sup>Permanent 4 wheel drive: -1.2 to -2.4 <sup>2</sup>Rear bearing: 88 to 95

<sup>3</sup>Transfer box: 2.8 <sup>4</sup>Rear, 90: 1.7. 110: 2.3

3528 cm<sup>3</sup>

Running

gear

bar

bar

°C

mm

mm

°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

1: Idle speed

° Crankshaft

V/CC/RC

- locked

- Estate / Van

° Crankshaft @ rpm

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

° Crankshaft @ rpm ° Crankshaft @ rpm

° Crankshaft @ rpm

FL

82

1.0

**V8 OHV 100kW** 80

3528 / 8  $8.13 / \geq 9.3$ [2.1 to 2.8]

1990 to 1994

Defender 90, 110, 130 V8 0: Hyd. 0: Hyd. 1-8-4-3-6-5-7-2 Defender 90, 110, 130 V8 700 to 750 1050 to 1150 1.5 to 3.0 ≤1200 Zenith-Stromberg 2x 175 CDSE \_ / B1FK

0.31 90[E 91 RON] Defender 90, 110, 130 V8 Electronic AC Delco. 1.2 to 1.4 7.0 Lucas [0.20 to 0.35]

Clockwise

2 to 4 @ 750

339 to 677

0.70 to 0.84

Defender 90, 110, 130 V8

Defender 90, 110, 130 V8

205x16: 750x16

1.9 / 3.3

+3°

+7°

+1.2 to 2.41

Defender 90, 110, 130 V8

47 to 54

68 to 75<sup>2</sup>

74 to 81

Defender 90, 110, 130 V8

54.5. 110/130: 80

27

108

16

5.7

 $2.2^{3}$ 

1.74

12.8

No 1 to 10: 88 to 95

No 11 to 14: 54 to 61

5 to 7

12 to 14 @ 2300

**Unipart/Champion** 

GSP131 / RN9YCC

12 / 180 / 78, 12 / 370 / 120

13.6 to 14.4 / 45 / 3000

6±1 BTDC @ 700

**Zenith-Stromberg** 

H.19166

**Zenith-Stromberg** 

3528 cm<sup>3</sup>

2: CO / Mixture