Torque

Engine & Electrical **Fuel** Ignition Cooling

gear

Running

bar

bar

°C

mm

mm

°C

bar

rpm

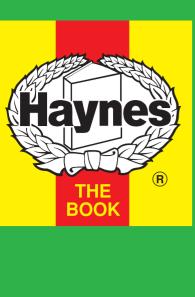
rpm

Capacities settings

Notes &

Illustrations

1990 to 1994



Automotive Technical

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 data for this car. To

## Oil pressure Oil temperature Valve clearance - inlet

**Engine and cooling system** 

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

Compression ratio / pressure

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 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

Brakes -**Tyres** Saloon

Pressure - front / rear - Saloon Front suspension / wheel alignment Toe-in (+) / Toe-out (-)

Estate / Van

Camber Castor King pin inclination

- stage 2

Big-end bearings Main bearings Clutch cover Flywheel [driveplate]

Wheel nuts / bolts

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

Cooling system

Fuel tank

Rear hubs

Spark plugs

<sup>2</sup>Rear: 2.3

<sup>1</sup>Transfer box: 2.8

**Notes and Illustrations** 

2495 cm<sup>3</sup>

Cylinder head - stage 3 - stage 4 Front hubs

Rear suspension / wheel alignment Toe-in (+) / Toe-out (-) Camber Torque wrench settings Cylinder head - stage 1

- locked Running gear Front (min. friction material thickness) Rear (min. friction material thickness)

- Estate / Van

° Crankshaft @ rpm ° Crankshaft @ rpm ° Crankshaft @ rpm mbar ° Crankshaft mm

V / CC / RC A/V

A/V

mm

mm

Size

Size

bar

bar

mm [°]

mm [°]

Nm Nm

Nm

Nm

Nm

Nm

Nm

Nm

Nm

Nm

Nm

Nm

litres

litres

litres

litres

litres

litres

mm ° (%) μF ° Crankshaft @ rpm ° Crankshaft @ rpm ° Crankshaft @ rpm ° Crankshaft @ rpm

ohms ohms ٧

% 0.5 to 2.0 ppm ≤1200 % % Weber 32-34 DMTL 112, 112 bar bar 0.10 to 0.17 RON 92[E 95 RON] Defender 90, 110 2.5 Contact breaker - CIS

2.9

Lucas

0.2

[TDC]

0@1000

119 to 846

0.75 to 0.80

11 to 13

49 to 59

0.36 to 0.40

**Anticlockwise** 

16 BTDC @ 2000

36 to 42 @ 4500

**Unipart/Champion** 

GSP151 / RN9YCC

Defender 90, 110 2.5

Defender 90, 110 2.5

205x16: 750x16

Defender 90, 110 2.5

Defender 90, 110 2.5

1.9 / 2.9

+3°

+7°

-1.2 to -2.4

91 to 113

34 to 46

30 to 35

108

16

6.9  $2.2^{1}$ 

 $1.7^{2}$ 

11.0

54.5. 110: 80

130 to 136

130 to 140

12 / 180 / 78, 370 / 120

13.6 to 14.4 / 45 / 3000

80 0.25 H 0.25 H 1-3-4-2 F 82 0.62 Defender 90, 110 2.5 600 to 700

Bosch 0 221 119 368

OHV 62kW 2495 / 4 8.0 / 11.0 [2.4 to 4.5]

Defender 90, 110 2.5

1990 to 1994

Weber 32-34 DMTL

2495 cm<sup>3</sup>

2: CO / Mixture

1: Idle speed

TDC