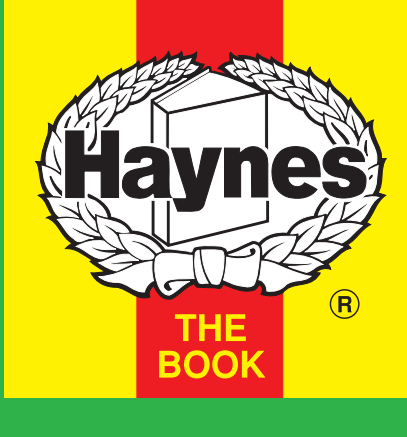


Engine & CoolingFuelIgnitionElectricalRunning gearTorque settingsCapacitiesNotes & Illustrations



Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENUHELP

Engine and cooling system

300, 2000 LC

1986 to 1989

Type		20V LC
Capacity (cm³) / number of cylinders		1994 / 4
Compression ratio / pressure	bar	8.0 / 10.3
Oil pressure	bar	[3.8 to 5.5]
Oil temperature	°C	—
Valve clearance - inlet	mm	0.30±0.03
Valve clearance - exhaust	mm	0.30±0.03
Firing order		1-3-4-2
No 1 cylinder position		F
Thermostat opening temperature	°C	82 to 84
Radiator cap pressure	bar	1.0

Fuel system

300, 2000 LC

1986 to 1989

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	1300±50
CO @ idle speed [3000 rpm] - see page VI	%	2.25±1.5
HC @ idle speed [3000 rpm] - see page VI	ppm	—
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		SU
Type / ref		HIF44
Main jet / needle		0.100 / BGN
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	91[L] ¹

Ignition system

300, 2000 LC

1986 to 1989

Type		Computerized
Ignition coil		Bosch
Primary resistance	ohms	—
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Lucas
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		NGK/Champion
Type		BP6ES / RS9YCC
Electrode gap	mm	0.90

Electrical system

300, 2000 LC

1986 to 1989

Battery	V / CC / RC	12 / 40 or 55Ah
Alternator voltage / full load current / engine rpm		13.5 to 14.4 / _ / 3000
Starter motor current / voltage - cranking	A / V	260 / 8.0
- locked	A / V	460 / 7.0

Running gear

300, 2000 LC

1986 to 1989

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	—
Estate / Van	Size	185x14: 205x14
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	WSM

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0 to +1.6
Camber		+1°30'
Castor		+5° (VIN 816953 ►: +2°)
King pin inclination		+9°30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	—
Camber		—

Torque wrench settings

300, 2000 LC

1986 to 1989

Cylinder head - stage 1	Nm	47
- stage 2	Nm	81
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	—
Big-end bearings	Nm	52 to 58
Main bearings	Nm	95 to 115
Clutch cover	Nm	23
Flywheel [driveplate]	Nm	80 to 90
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	176 to 277 ²
Spark plugs	Nm	15 to 20

Capacities

300, 2000 LC

1986 to 1989

Engine oil & filter	litres	5.75
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	—
Final drive	litres	1.7. Twin wheel:2.4
Cooling system	litres	6.6
Fuel tank	litres	70. Ch.Cab: 64 ³

Notes and Illustrations

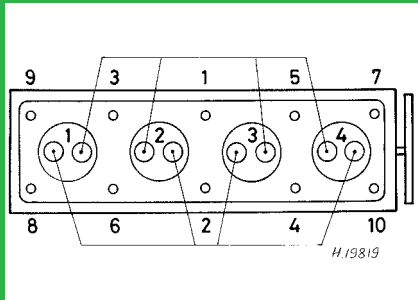
¹Engine no. 20VC95L104888 (VIN 824044) ►: [E 91 RON]

²Single wheel only. Twin wheel models: 230 to 280

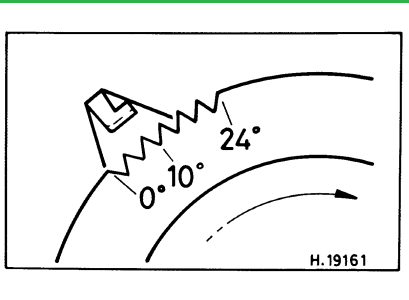
³Optional: 102

1: Idle speed

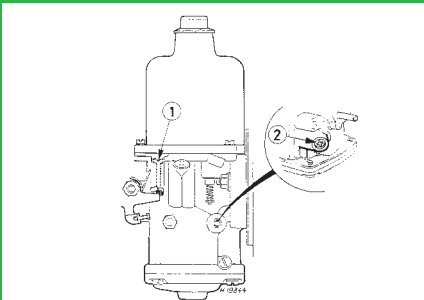
2: CO / Mixture



1994 cm³



1994 cm³



SU HIF 44