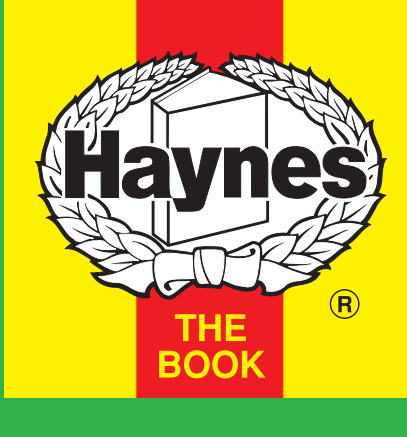


Engine & CoolingFuelIgnitionElectricalRunning gearTorque settingsCapacitiesNotes & Illustrations



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

309, 1.61986 to 1990

Type		XU51C (B1A/A) (58kW)
Capacity (cm³) / number of cylinders		1580 / 4
Compression ratio / pressure	bar	9.35 / _
Oil pressure	bar	1.4 [3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20
Valve clearance - exhaust	mm	0.40
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	1.0

Fuel system

309, 1.61986 to 1990

Idle speed - manual [auto]	rpm	750±50 [850 to 950]
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	≥10.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Weber
Type / ref		36 TLP1 [AT: 36 TLC]
Main jet / needle		137 to 142
Injection pressure	bar	_
Pump pressure	bar	0.31
Octane rating	RON	97[RA] ¹

Ignition system

309, 1.61986 to 1990

Type		Electronic
Ignition coil		_
Primary resistance	ohms	0.82
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Bosch/Ducellier
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ 750 ¹
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	C023-D018
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	10 to 14 @ 1200
	° Crankshaft @ rpm	26 to 30 @ 2600
	° Crankshaft @ rpm	34 to 38 @ 5200
Vacuum range check	mbar	186 to 532
Maximum vacuum advance	° Crankshaft	12 to 16
Spark plugs		Eyquem/Champion
Type		C62LJS / S281YC ²
Electrode gap	mm	0.80

Electrical system

309, 1.61986 to 1990

Battery	V / CC / RC	12 / 210 / 65
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

309, 1.61986 to 1990

Brakes -		
Front (min. friction material thickness)	mm	1.0
Rear (min. friction material thickness)	mm	_

Tyres		
Saloon	Size	165/70x13: 155x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.9 / 2.1 ³
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+0.5±0.5 PW
Camber		-30'±30'
Castor		+2°±30'
King pin inclination		+10°15'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.6±0.8 PW
Camber		-1°±30'

Torque wrench settings

309, 1.61986 to 1990

Cylinder head - stage 1	Nm	60 ⁴
- stage 2	Nm	Slacken each bolt in turn ⁴
Cylinder head - stage 3	Nm	20 ⁴
- stage 4	Nm	+ 120° ⁴
Big-end bearings	Nm	40 ⁵
Main bearings	Nm	49
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	49 LkC
Front hubs	Nm	265
Rear hubs	Nm	215
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	10 to 20

Capacities

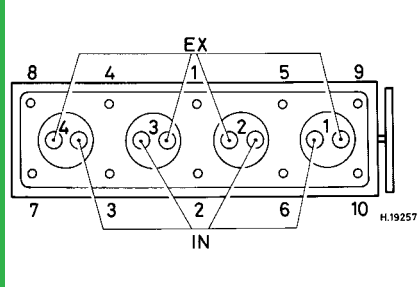
309, 1.61986 to 1990

Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	2.4
Final drive	litres	WT
Cooling system	litres	7.5 [AT: 8.5]
Fuel tank	litres	55

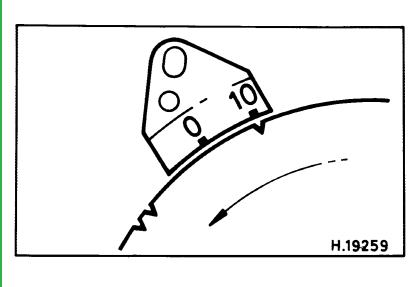
Notes and Illustrations

- ¹[E 95 RON], MT: -4°. AT: [E 95 RON]
- ²88 ►: FC52LS / C9YCX
- ³AT: 2.1 / 2.2
- ⁴04.87 ► Torx bolts: 60, slacken, then 20 ,then + 300°
- ⁵Slacken, then 20 + 70°

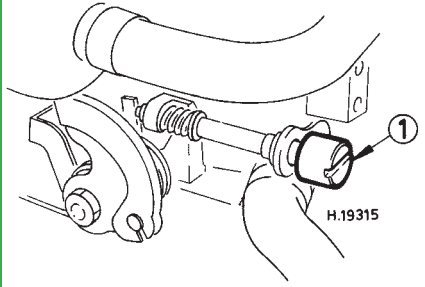
1: Idle speed2: CO / Mixture



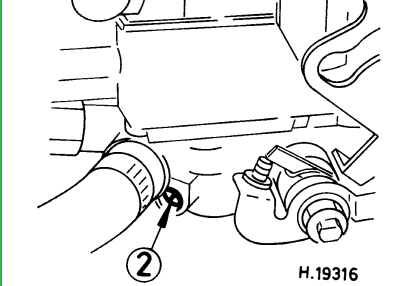
1580 cm³



1580 cm³



Weber TLP / TLC



Weber TLP / TLC