

Engine & Cooling

Fuel

Ignition

Electrical

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling system305 GT & AT1983 to 1988

Type		XU5S (171C) (66kW)
Capacity (cm³) / number of cylinders		1580 / 4
Compression ratio / pressure	bar	9.5 / _
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 system305 GT & AT1983 to 1988

Idle speed - manual [auto]	rpm	700±50 [850±50]
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.5±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		Solex/Weber
Type / ref		S: 32-34 CISAC. W: 32-34DRTC
Main jet / needle		S: 140, 120. W: 105, 112 (±5)
Injection pressure	bar	_
Pump pressure	bar	0.33
Octane rating	RON	96[RA] ¹

Ignition system305 GT & AT1983 to 1988

Type		Electronic
Ignition coil		_
Primary resistance	ohms	0.85
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		_
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ 800 ¹
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	M148E or C005-D005
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	8 to 12 @ 1000
	° Crankshaft @ rpm	13 to 18 @ 3000
	° Crankshaft @ rpm	24 to 28 @ 5200
Vacuum range check	mbar	133 to 460 ²
Maximum vacuum advance	° Crankshaft	30 to 34
Spark plugs		Bosch/Champion
Type		H6DC / S279YC
Electrode gap	mm	0.60

Electrical system305 GT & AT1983 to 1988

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 gear305 GT & AT1983 to 1988

Brakes -		
Front (min. friction material thickness)	mm	2.5
Rear (min. friction material thickness)	mm	_

Tyres		
Saloon	Size	155x14: 165/70x14: 170/65x365
Estate / Van	Size	155x14: 165/70x14
Pressure - front / rear - Saloon	bar	1.9 / 2.0 ³
- Estate / Van	bar	1.8 / 2.2

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+4.0±1.0
Camber		+25'±30'
Castor		+1°45'±30'
King pin inclination		+9°20'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+4.3±2.0 ⁴
Camber		-1°±30' [Estate: -10'±10']

Torque wrench settings305 GT & AT1983 to 1988

Cylinder head - stage 1	Nm	60 ⁵
- stage 2	Nm	Slacken each bolt in turn ⁵
Cylinder head - stage 3	Nm	20 ⁵
- stage 4	Nm	+ 120 ⁰⁵
Big-end bearings	Nm	40 ⁶
Main bearings	Nm	50
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	50 LkC
Front hubs	Nm	250
Rear hubs	Nm	275
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	18

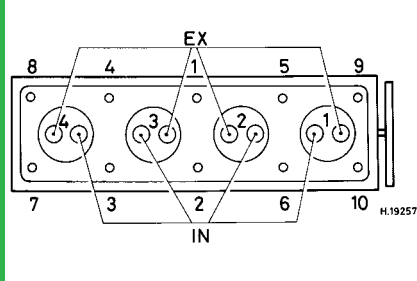
Capacities305 GT & AT1983 to 1988

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	6.7
Fuel tank	litres	56. Estate: 50

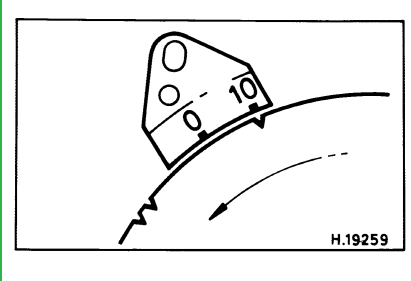
Notes and Illustrations

- ¹[E 95 RON], -2°
- ²M148E only. D005: 120 to 347
- ³Not 155x14 tyres: 1.8 / 2.0
- ⁴Estate: +0.8±2.0
- ⁵04.87 ► Torx bolts: 60, slacken, then 20, then + 300°
- ⁶Slacken, then 20 + 70°

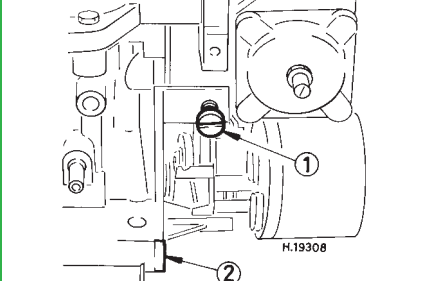
1: Idle speed2: CO / Mixture



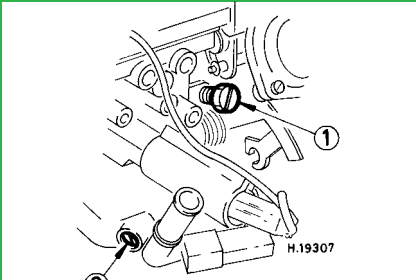
1580 cm³



1580 cm³



Solex CISAC



Weber DRTC