

Engine & Cooling

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Automotive Technical
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Engine and cooling system

305 & Van 1580

1985 to 1991

Type		XU51C (B1A/A) (58kW)
Capacity (cm³) / number of cylinders		1580 / 4
Compression ratio / pressure	bar	9.4 / _
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	0.8

Fuel system

305 & Van 1580

1985 to 1991

Idle speed - manual [auto]	rpm	700±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		Weber
Type / ref		36 TLP1 100 / 200
Main jet / needle		140 or 145
Injection pressure	bar	_
Pump pressure	bar	0.32
Octane rating	RON	97[RA] ¹

Ignition system

305 & Van 1580

1985 to 1991

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 @ 700 ¹
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	C023-D018
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	8 to 12 @ 1000
	° Crankshaft @ rpm	16 to 20 @ 1700
	° Crankshaft @ rpm	26 to 30 @ 2600
Vacuum range check	mbar	199 to 532
Maximum vacuum advance	° Crankshaft	22 to 26
Spark plugs		Eyquem/Champion
Type		C62LJS / S281YC ²
Electrode gap	mm	0.60 ²

Electrical system

305 & Van 1580

1985 to 1991

Battery	V / CC / RC	12 / 200 / 45
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

305 & Van 1580

1985 to 1991

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

Tyres		
Saloon	Size	165/70x14
Estate / Van	Size	155x14: 165/70x14
Pressure - front / rear - Saloon	bar	1.9 / 2.0
- Estate / Van	bar	1.8 / 2.1

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 ³
Camber		-1°±30' [Est / Van: -10'±10']

Torque wrench settings

305 & Van 1580

1985 to 1991

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	50
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	50 LkC
Front hubs	Nm	250
Rear hubs	Nm	275
Wheel nuts / bolts	Nm	80
Spark plugs	Nm	18

Capacities

305 & Van 1580

1985 to 1991

Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.7
Fuel tank	litres	56. Est/Van: 50

Notes and Illustrations

¹[E 95 RON], -4°

²88 ►: RFC52LS / C9YCX, gap: 0.80

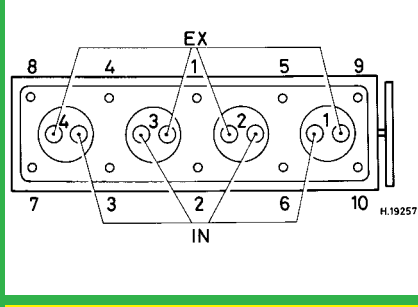
³Estate & Van: +0.8±2.0

⁴04.87 ► Torx bolts: 60, slacken, then 20, then + 300°

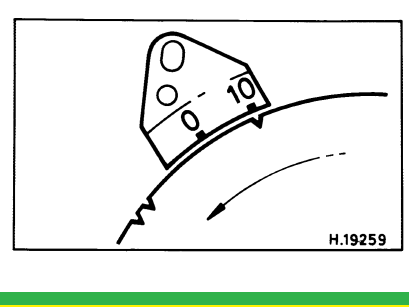
⁵Slacken, then 20 + 70°

1: Idle speed

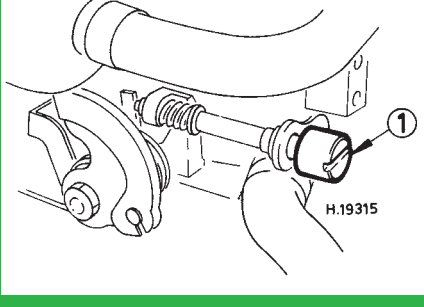
2: CO / Mixture



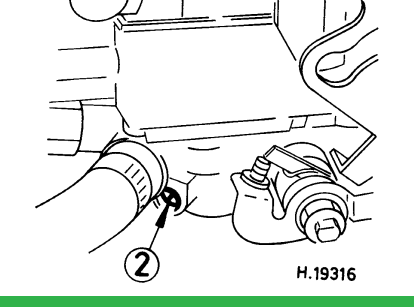
1580 cm³



1580 cm³



Weber TLP



Weber TLP