

Engine & CoolingFuelIgnitionElectricalRunning gearTorque settingsCapacitiesNotes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling system

505, 2.01985 to 1992

Type	XN1A (106E) (72kW)	
Capacity (cm³) / number of cylinders	1971 / 4	
Compression ratio / pressure	bar	8.8 / _
Oil pressure	bar	1.9 [3.0]
Oil temperature	°C	90
Valve clearance - inlet	mm	0.10
Valve clearance - exhaust	mm	0.25
Firing order	1-3-4-2	
No 1 cylinder position	FE	
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	0.8

Fuel system

505, 2.01985 to 1992

Idle speed - manual [auto]	rpm	900±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	
Type / ref	34-34 CISAC Z1 PEU 394	
Main jet / needle	117±5, 130±5	
Injection pressure	bar	_
Pump pressure	bar	0.32
Octane rating	RON	97[L] ¹

Ignition system

505, 2.01985 to 1992

Type	Electronic	
Ignition coil	Bosch, Ducellier	
Primary resistance	ohms	0.82
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor	_	
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation	_	
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ 900
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	C020-D015 ²
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	10 to 14 @ 1700 ²
	° Crankshaft @ rpm	17 to 19 @ 3000 ²
	° Crankshaft @ rpm	34 to 38 @ 5000 ²
Vacuum range check	mbar	120 to 307
Maximum vacuum advance	° Crankshaft	18 to 22
Spark plugs	Bosch/Champion	
Type	W7DC / RN9YCC	
Electrode gap	mm	0.60 88 ►: 0.80

Electrical system

505, 2.01985 to 1992

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

505, 2.01985 to 1992

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

Tyres		
Saloon	Size	175x14: 185x14: 185/70x14
Estate / Van	Size	185x14
Pressure - front / rear - Saloon	bar	1.8 / 2.1
- Estate / Van	bar	1.9 / 2.2

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+3.0±1.0 ³
Camber	-45'±30'. Estate: -30'±30'	
Castor	+2°40'±30'. Estate: +2°±30'	
King pin inclination	+9°15'±30'. Estate: +9°±30'	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+3±1.0. Estate: 0
Camber	-1°±1°. Estate: 0	

Torque wrench settings

505, 2.01985 to 1992

Cylinder head - stage 1	Nm	50 ⁴
- stage 2	Nm	Slacken, then 20 ⁴
Cylinder head - stage 3	Nm	+ 90° ⁴
- stage 4	Nm	Repeat from S2 after warm up ⁴
Big-end bearings	Nm	40
Main bearings	Nm	75
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	68
Front hubs	Nm	WSM
Rear hubs	Nm	280
Wheel nuts / bolts	Nm	Steel: 60. Alloy: 80
Spark plugs	Nm	23

Capacities

505, 2.01985 to 1992

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	1.2 [1.9]
Automatic transmission - refill	litres	2.6
Final drive	litres	1.6
Cooling system	litres	7.1 without expansion ⁵
Fuel tank	litres	70

Notes and Illustrations

¹1986 MY: [E 95 RON]

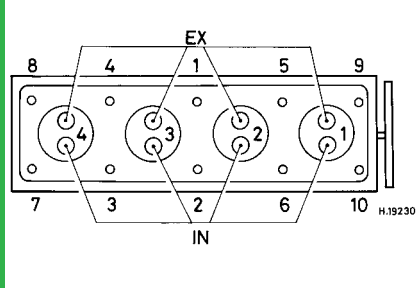
²C013-D015 may be used: 10 to 15 @ 1300, 26 to 30 @ 3000, 38 to 42 @ 5000

³Estate: +3.5±1.0

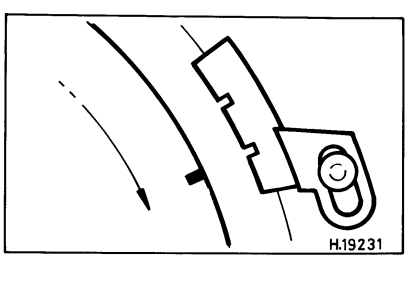
⁴VIN 1845 001 ►: 50, slacken, then 20 + 180°.Warm up + 35°

⁵7.3 with exp. 87 ►: 8.4

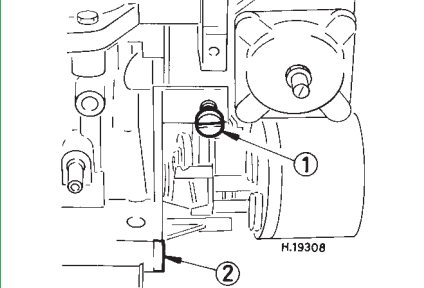
1: Idle speed2: CO / Mixture



1971 cm³



1971 cm³



Solex CISAC