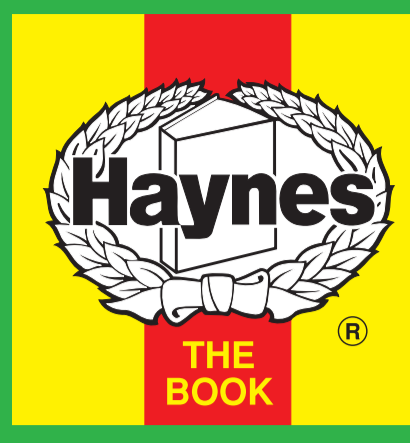


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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.

MENU **HELP**

Engine and cooling system 505, 1.8 1985 to 1992

Type		XM7A (105C) (62kW)
Capacity (cm ³) / number of cylinders		1796 / 4
Compression ratio / pressure	bar	8.8 / _
Oil pressure	bar	2.7±0.8
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	_
Radiator cap pressure	bar	0.8 [AT: 1.0]

Fuel system 505, 1.8 1985 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
CO ₂ @ idle speed [3000 rpm] - see page VI	%	≥10.0
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Solex
Type / ref		32-34 CISAC Z2 PEU 398-1
Main jet / needle		117±5, 127±5
Injection pressure	bar	_
Pump pressure	bar	_
Octane rating	RON	96[L] ¹

Ignition system 505, 1.8 1985 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	C021-D016
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 to 4 @ 1600
	° Crankshaft @ rpm	14 to 18.5 @ 2500
	° Crankshaft @ rpm	24 to 28 @ 5000
Vacuum range check	mbar	133 to 400
Maximum vacuum advance	° Crankshaft	14 to 18
Spark plugs		Bosch/Champion
Type		W7DC / RN9YCC
Electrode gap	mm	0.80

Electrical system 505, 1.8 1985 to 1992

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

Running gear 505, 1.8 1985 to 1992

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

Tyres		
Saloon	Size	175x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.8 / 2.0
- Estate / Van	bar	_

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

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+3±1.0. Estate: 0
Camber		-1°±30' Estate: 0

Torque wrench settings 505, 1.8 1985 to 1992

Cylinder head - stage 1	Nm	50 ²
- stage 2	Nm	Slacken, then 20 ²
Cylinder head - stage 3	Nm	+ 90 ²²
- stage 4	Nm	Repeat from S2 after warm up ²
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

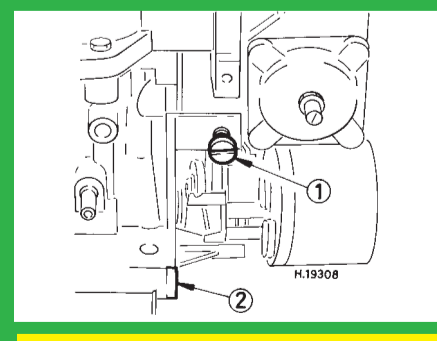
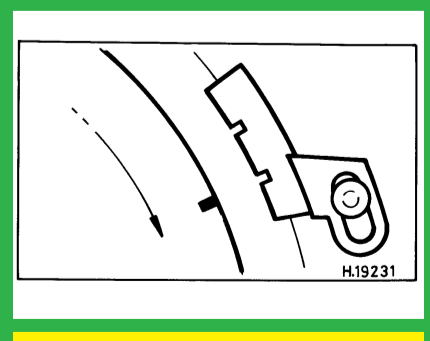
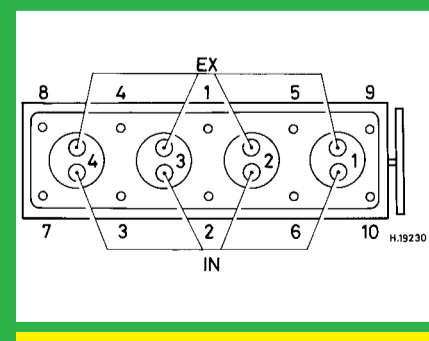
Capacities 505, 1.8 1985 to 1992

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	1.6
Automatic transmission - refill	litres	2.6
Final drive	litres	1.6
Cooling system	litres	7.1 without expansion ³
Fuel tank	litres	70

Notes and Illustrations

¹1986 MY: [E 95 RON]
²VIN 1845 001 ▶: 50, slacken, then 20 + 180°. Warm up + 35°
³8.4 with exp. AT: 7.3

1: Idle speed 2: CO / Mixture



1796 cm³

1796 cm³

Solex CISAC