

Engine & CoolingFuelIgnitionElectricalRunning gearTorque settingsCapacitiesNotes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling system

505, 2.2 GTi1983 to 1992

Type		ZDJL (851B) (90kW)
Capacity (cm³) / number of cylinders		2165 / 4
Compression ratio / pressure	bar	9.8 / _
Oil pressure	bar	1.5 [3.5]
Oil temperature	°C	80
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	87
Radiator cap pressure	bar	0.8. 87 ►: 1.0

Fuel system

505, 2.2 GTi1983 to 1992

Idle speed - manual [auto]	rpm	750 to 800 [900 to 950]
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.5 to 1.5
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		Bosch
Type / ref		LE2-Jetronic
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	2.3 to 2.7
Octane rating	RON	97[RA] ¹

Ignition system

505, 2.2 GTi1983 to 1992

Type		Electronic
Ignition coil		Bosch
Primary resistance	ohms	0.82
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Bosch
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ idle ¹
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	24 BTDC @ 4000
	° Crankshaft @ rpm	M164E
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 to 2 @ 1400
	° Crankshaft @ rpm	11 to 15 @ 1600
	° Crankshaft @ rpm	24 to 28 @ 5000
Vacuum range check	mbar	227 to 493
Maximum vacuum advance	° Crankshaft	15 to 19
Spark plugs		Bosch/Champion
Type		H6DC / S7YCC
Electrode gap	mm	0.60 88 ►: 0.80

Electrical system

505, 2.2 GTi1983 to 1992

Battery	V / CC / RC	12 / 255 / 85
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, 2.2 GTi1983 to 1992

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

Tyres		
Saloon	Size	185/70x14:190/65x390:195/70x14
Estate / Van	Size	195/70x14: 205/70x14
Pressure - front / rear - Saloon	bar	1.8 / 2.1
- Estate / Van	bar	2.0 / 2.4

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+3.0±1.0 ²
Camber		-1°±30'. Estate: -55'±30' ³
Castor		+2°30'±30' ⁴
King pin inclination		+9°30'±30'.Estate:+9°25'±30' ⁵

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

Torque wrench settings

505, 2.2 GTi1983 to 1992

Cylinder head - stage 1	Nm	50, then 80
- stage 2	Nm	- 90° in turn
Cylinder head - stage 3	Nm	95
- stage 4	Nm	Repeat from S2 after warm up
Big-end bearings	Nm	65
Main bearings	Nm	95
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	65
Front hubs	Nm	WSM
Rear hubs	Nm	280
Wheel nuts / bolts	Nm	Steel: 60. Alloy: 80
Spark plugs	Nm	18

Capacities

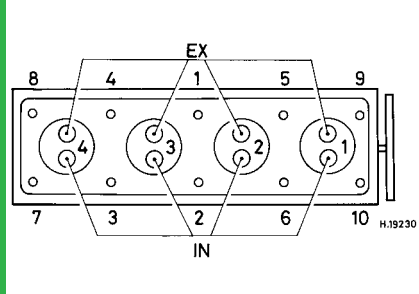
505, 2.2 GTi1983 to 1992

Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	ZF3: 1.6. ZF4: 2.6
Final drive	litres	1.6
Cooling system	litres	6.3 without expansion ⁶
Fuel tank	litres	70

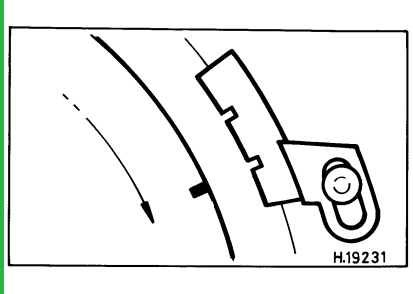
Notes and Illustrations

¹[E 95 RON], -2°
²Estate: +2.0±1.0
³Saloon 85 ►: -45'±30'
⁴Saloon 85 ►: +2°40'±30'
⁵Saloon 85 ►: +9°15'±30'
⁶7.5 with exp

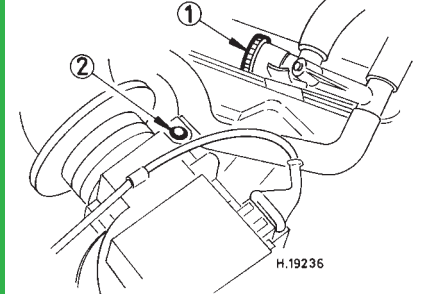
1: Idle speed 2: CO / Mixture



2165 cm³



2165 cm³



LE2-Jetronic