

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
------------------	------	----------	------------	--------------	-----------------	------------	-----------------------



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, 2.2 GTi 1983 to 1992

Type	ZDJL (851B) (90kW)	
Capacity (cm ³) / 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 GTi 1983 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
CO ₂ @ idle speed [3000 rpm] - see page VI	%	≥10.0
O ₂ @ 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 GTi 1983 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 GTi 1983 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 GTi 1983 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 GTi 1983 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 GTi 1983 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

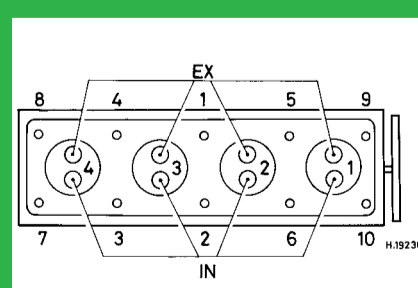
³Saloon 85 ▶: -45'±30'

⁴Saloon 85 ▶: +2°40'±30'

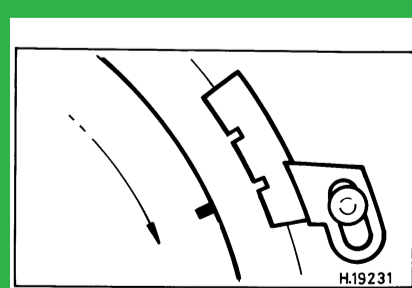
⁵Saloon 85 ▶: +9°15'±30'

⁶7.5 with exp

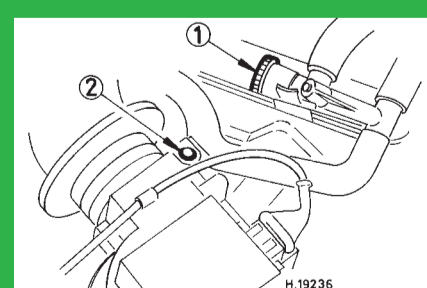
1: Idle speed 2: CO / Mixture



2165 cm³



2165 cm³



LE2-Jetronic