

Engine & Cooling

Fuel

Ignition

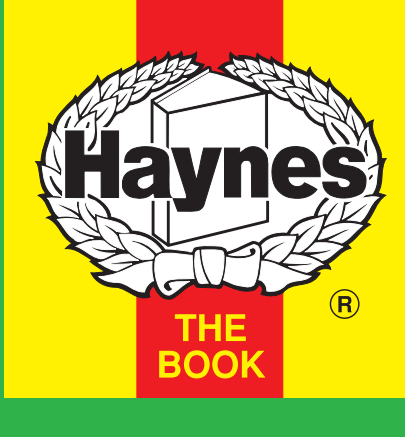
Electrical

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

205 GTi 1.6 & CTi

1990 to 1992

Type		XU5JA/K (B6E) (83kW)
Capacity (cm ³) / number of cylinders		1580 / 4
Compression ratio / pressure	bar	9.8 /
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	1.0

Fuel system

205 GTi 1.6 & CTi

1990 to 1992

Idle speed - manual [auto]	rpm	900±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5 [≤0.5]
HC @ idle speed [3000 rpm] - see page VI	ppm	≤250
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	2.5
Pump pressure	bar	2.9 to 3.1
Octane rating	RON	97[E 95 RON]

Ignition system

205 GTi 1.6 & CTi

1990 to 1992

Type		Electronic
Ignition coil		—
Primary resistance	ohms	0.82
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Bosch/Ducellier
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ 900
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	C019-D013
	° Crankshaft @ rpm	30 BTDC @ 3000
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	8 to 13 @ 1300
	° Crankshaft @ rpm	15 to 20 @ 1700
	° Crankshaft @ rpm	32 to 36 @ 3500
Vacuum range check	mbar	240 to 500
Maximum vacuum advance	° Crankshaft	10 to 14
Spark plugs		Eyquem/Champion
Type		FC58LS / C7YCX
Electrode gap	mm	0.80

Electrical system

205 GTi 1.6 & CTi

1990 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

205 GTi 1.6 & CTi

1990 to 1992

Brakes -		
Front (min. friction material thickness)	mm	1.0
Rear (min. friction material thickness)	mm	—

Tyres		
Saloon	Size	185/60x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.9 / 1.9
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+1.0±0.5 PW ¹
Camber		0±30'[CTi: +15'±30']
Castor		+3°15'±30' [CTi: +2°50'±30']
King pin inclination		+10°55'±30'[CTi: +10°±30']

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+1.8±0.8 PW ²
Camber		-50'±30'

Torque wrench settings

205 GTi 1.6 & CTi

1990 to 1992

Cylinder head - stage 1	Nm	60
- stage 2	Nm	Slacken
Cylinder head - stage 3	Nm	20
- stage 4	Nm	+ 300°
Big-end bearings	Nm	40 ³
Main bearings	Nm	49
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	49 LkC
Front hubs	Nm	260
Rear hubs	Nm	215
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	18

Capacities

205 GTi 1.6 & CTi

1990 to 1992

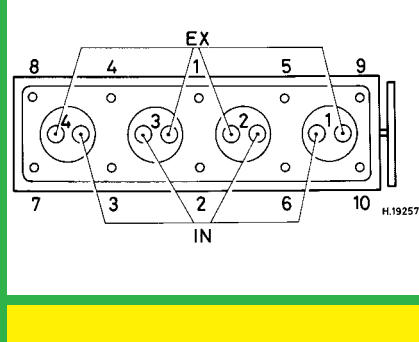
Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	6.6
Fuel tank	litres	50

Notes and Illustrations

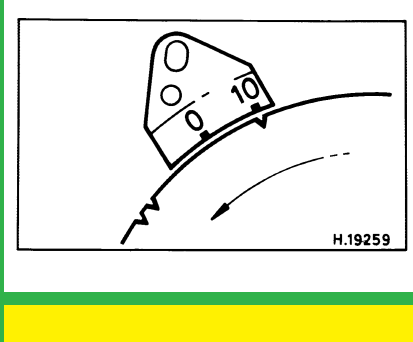
- ¹CTi: +0.5±0.5
- ²CTi: +1.7±0.8 PW
- ³Slacken, then 20 + 70°

1: Idle speed

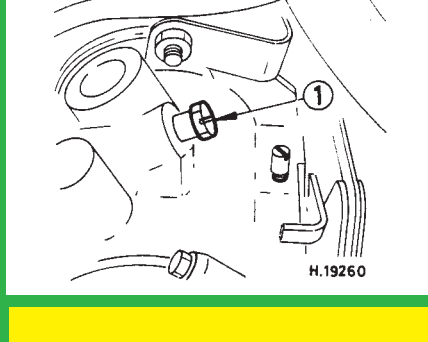
2: CO / Mixture



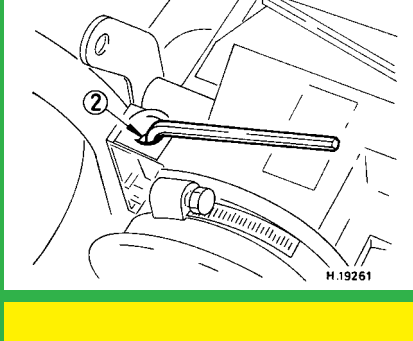
1580 cm³



1580 cm³



LE2-Jetronic



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