

Engine & Cooling

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Automotive Technical
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Engine and cooling system

19, 1.4i CAT(B/C/L532)

1990 to 1996

Type		C3J-7-10
Capacity (cm ³) / number of cylinders		1390 / 4
Compression ratio / pressure	bar	9.0 / _
Oil pressure	bar	0.7 [3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.15
Valve clearance - exhaust	mm	0.20
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	86
Radiator cap pressure	bar	1.2

Fuel system

19, 1.4i CAT(B/C/L532)

1990 to 1996

Idle speed - manual [auto]	rpm	850±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	≥14.5
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Siemens Bendix
Type / ref		Renix Monopoint SPI
Main jet / needle		_
Injection pressure	bar	1.0±0.05
Pump pressure	bar	3.0
Octane rating	RON	91[U]

Ignition system

19, 1.4i CAT(B/C/L532)

1990 to 1996

Type		AEI
Ignition coil		Renix
Primary resistance	ohms	0.4 to 0.8
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Ducellier
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	AEI control
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	AEI control
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Vacuum range check	mbar	AEI control
Maximum vacuum advance	° Crankshaft	_
Spark plugs		Champion
Type		RN12YC
Electrode gap	mm	0.75 to 0.85

Electrical system

19, 1.4i CAT(B/C/L532)

1990 to 1996

Battery	V / CC / RC	12 / 35Ah
Alternator voltage / full load current / engine rpm		13.5 to 15.0 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	350 to 460 / _

Running gear

19, 1.4i CAT(B/C/L532)

1990 to 1996

Brakes -		
Front (min. friction material thickness)	mm	6.0 with backing
Rear (min. friction material thickness)	mm	2.5

Tyres		
Saloon	Size	155x13: 165/70x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 2.2
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0±1.0
Camber		-5'±30'
Castor		+1°55'. PAS: +4°
King pin inclination		+12°55'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+0.5 to 2.5
Camber		-50'±30'

Torque wrench settings

19, 1.4i CAT(B/C/L532)

1990 to 1996

Cylinder head - stage 1	Nm	55 to 65
- stage 2	Nm	_
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	45
Main bearings	Nm	55 to 65
Clutch cover	Nm	18
Flywheel [driveplate]	Nm	50
Front hubs	Nm	250
Rear hubs	Nm	160
Wheel nuts / bolts	Nm	80
Spark plugs	Nm	_

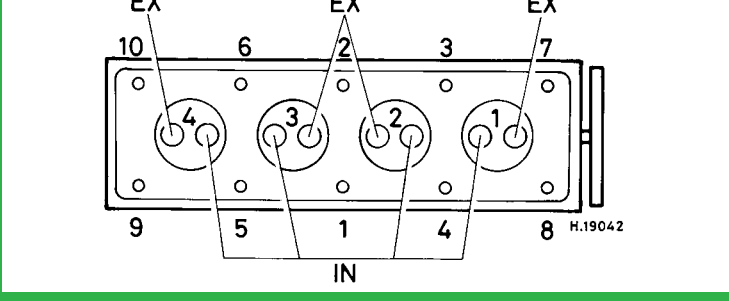
Capacities

19, 1.4i CAT(B/C/L532)

1990 to 1996

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	3.4
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	55

Notes and Illustrations



1390 cm³, C3J