

Engine & Cooling

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Automotive Technical
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Engine and cooling system

155, 2.0 T-Spark CAT

1992 to 1997

Type		AR 672.02 DOHC 104kW
Capacity (cm³) / number of cylinders		1995 / 4
Compression ratio / pressure	bar	10.0 / _
Oil pressure	bar	1.5 [5.0]
Oil temperature	°C	90
Valve clearance - inlet	mm	0.38 to 0.45
Valve clearance - exhaust	mm	0.43 to 0.50
Firing order		1-3-4-2
No 1 cylinder position		F
Thermostat opening temperature	°C	87±2
Radiator cap pressure	bar	0.98±0.1

Fuel system

155, 2.0 T-Spark CAT

1992 to 1997

Idle speed - manual [auto]	rpm	840±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.2
HC @ idle speed [3000 rpm] - see page VI	ppm	≤50
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		Motronic M1.7
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	2.8 to 3.2
Octane rating	RON	95[U]

Ignition system

155, 2.0 T-Spark CAT

1992 to 1997

Type		DME Motronic
Ignition coil		2xBosch
Primary resistance	ohms	0.50
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Bosch
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control N/A
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	_
Spark plugs		Champion
Type		C6YCC
Electrode gap	mm	0.70

Electrical system

155, 2.0 T-Spark CAT

1992 to 1997

Battery	V / CC / RC	12 / 45Ah / 320 / 60Ah
Alternator voltage / full load current / engine rpm		14.0 / 80 / 3000
Starter motor current / voltage - cranking	A / V	350 / 9.0
- locked	A / V	750 / 4.0

Running gear

155, 2.0 T-Spark CAT

1992 to 1997

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	3.0

Tyres		
Saloon	Size	195/60x14: 195/55x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.0
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0
Camber		-20'±20' U/L
Castor		+3°30'±20' U/L
King pin inclination		+11°30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+0.5±0.2 U/L
Camber		-1°±15' U/L

Torque wrench settings

155, 2.0 T-Spark CAT

1992 to 1997

Cylinder head - stage 1	Nm	76 to 84
- stage 2	Nm	Warm engine, then cool
Cylinder head - stage 3	Nm	- 360°
- stage 4	Nm	83 to 91
Big-end bearings	Nm	49 to 54 oiled
Main bearings	Nm	20 + 115°
Clutch cover	Nm	32 to 40
Flywheel [driveplate]	Nm	116 to 129
Front hubs	Nm	356 to 400
Rear hubs	Nm	304 to 336
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	28 to 35 oiled

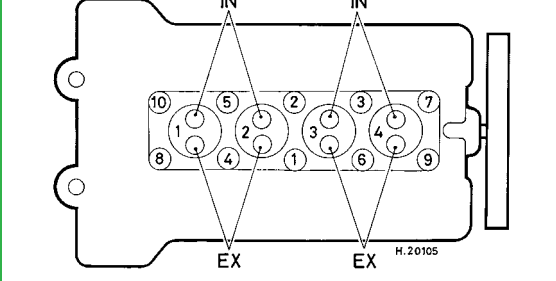
Capacities

155, 2.0 T-Spark CAT

1992 to 1997

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	8.3
Fuel tank	litres	63

Notes and Illustrations



1995 cm³, 8V