

Engine & Cooling

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Automotive Technical
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Engine and cooling system19, 16V, 16S CAT (B/C/D/L53D)1991 to 1996

Type		F7-P7-04 DOHC 16V 102kW
Capacity (cm³) / number of cylinders		1764 / 4
Compression ratio / pressure	bar	10.0 / _
Oil pressure	bar	[2.0 to 3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	89
Radiator cap pressure	bar	1.2

Fuel system19, 16V, 16S CAT (B/C/D/L53D)1991 to 1996

Idle speed - manual [auto]	rpm	900±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3 N/A Ex
HC @ idle speed [3000 rpm] - see page VI	ppm	≤100 Ex
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		Pierburg MPI EFI
Main jet / needle		_
Injection pressure	bar	2.5±0.2
Pump pressure	bar	3.0±0.2
Octane rating	RON	95[U]

Ignition system19, 16V, 16S CAT (B/C/D/L53D)1991 to 1996

Type		Computerized
Ignition coil		Renix
Primary resistance	ohms	0.4 to 0.8
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		_
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control
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		Eyquem/Champion
Type		FC58LS3 / C7BMC
Electrode gap	mm	N/A

Electrical system19, 16V, 16S CAT (B/C/D/L53D)1991 to 1996

Battery	V / CC / RC	12 / 50Ah
Alternator voltage / full load current / engine rpm		13.5 to 15.0 / 70 / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear19, 16V, 16S CAT (B/C/D/L53D)1991 to 1996

Brakes -		
Front (min. friction material thickness)	mm	6.0 with backing
Rear (min. friction material thickness)	mm	5.0 with backing

Tyres		
Saloon	Size	195/50x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0±1.0 UL
Camber		-15'±30' N/A
Castor		+4°±30' N/A
King pin inclination		+10°40'±30' N/A

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0 to 3.0 UL
Camber		-50'±30' N/A

Torque wrench settings19, 16V, 16S CAT (B/C/D/L53D)1991 to 1996

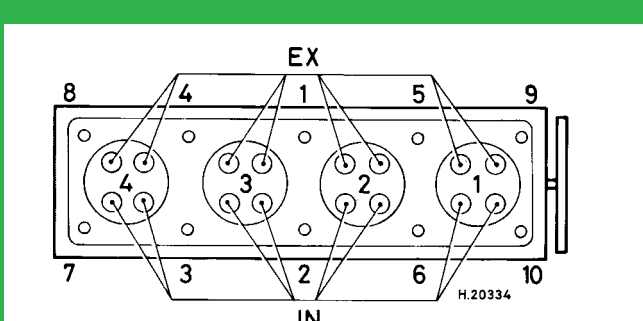
Cylinder head - stage 1	Nm	30 ¹
- stage 2	Nm	50° ± 4°, wait 3 min. Slacken
Cylinder head - stage 3	Nm	25
- stage 4	Nm	+ 213° ± 7°
Big-end bearings	Nm	45 to 50
Main bearings	Nm	60 to 65
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	50 to 55
Front hubs	Nm	250
Rear hubs	Nm	160
Wheel nuts / bolts	Nm	80
Spark plugs	Nm	_

Capacities19, 16V, 16S CAT (B/C/D/L53D)1991 to 1996

Engine oil & filter	litres	4.25
Gearbox - 4-speed [5-speed]	litres	3.4
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	7.0
Fuel tank	litres	55

Notes and Illustrations

¹TORX T55 Bolts



1764 cm³, 16V