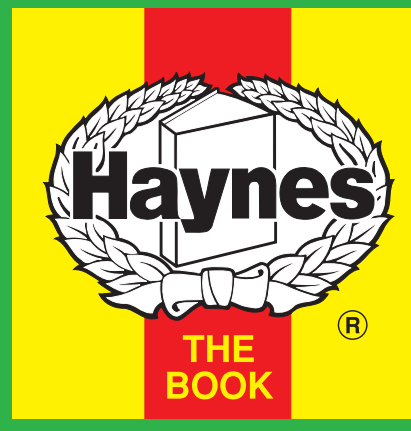


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Automotive Technical DATA BOOK

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Engine and cooling system 19, 16V, 16S CAT (B/C/D/L53D) 1991 to 1996

Type	F7-P7-04 DOHC 16V 102kW	
Capacity (cm ³) / 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 system 19, 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
CO ₂ @ idle speed [3000 rpm] - see page VI	%	≥14.5
O ₂ @ 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 system 19, 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 V = Vacuum NV = No Vacuum]	° Crankshaft @ rpm	Computer control
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 system 19, 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 gear 19, 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 settings 19, 16V, 16S CAT (B/C/D/L53D) 1991 to 1996

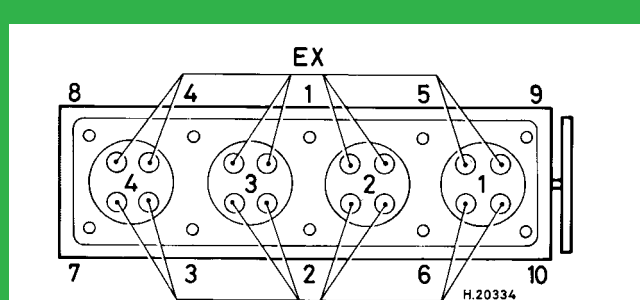
Cylinder head - stage 1	Nm	30 ¹
- stage 2	Nm	50° ± 4°, wait 3 min. Slacken
Cylinder head - stage 3	Nm	25
- stage 4	Nm	+ 213° ± 7°
Big-end bearings	Nm	45 to 50
Main bearings	Nm	60 to 65
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	50 to 55
Front hubs	Nm	250
Rear hubs	Nm	160
Wheel nuts / bolts	Nm	80
Spark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

Capacities 19, 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