

Engine & Cooling

Fuel

Ignition

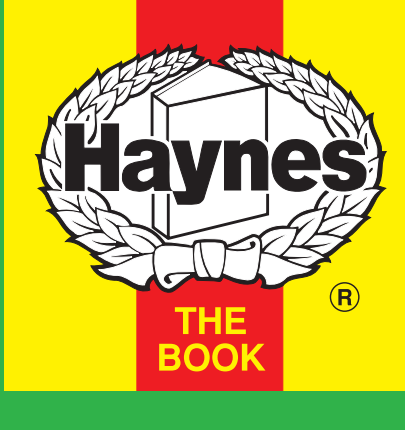
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system

155, 1749 T-Spark CAT

1992

Type	AR 671.03 DOHC	
Capacity (cm ³) / number of cylinders	1749 / 4	
Compression ratio / pressure	bar	—
Oil pressure	bar	[3.4 to 4.9]
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	TCE	
Thermostat opening temperature	°C	87±2
Radiator cap pressure	bar	0.98±0.1

Fuel system

155, 1749 T-Spark CAT

1992

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
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	
Main jet / needle	—	
Injection pressure	bar	—
Pump pressure	bar	2.8 to 3.2
Octane rating	RON	95[U]

Ignition system

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1992

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	Lodge/Champion	
Type	25HLD / C6YCC	
Electrode gap	mm	Champion: 0.70

Electrical system

155, 1749 T-Spark CAT

1992

Battery	V / CC / RC	12 / 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

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1992

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

Tyres		
Saloon	Size	185/60x14: 195/60x14
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, 1749 T-Spark CAT

1992

Cylinder head - stage 1	Nm	—
- stage 2	Nm	—
Cylinder head - stage 3	Nm	—
- stage 4	Nm	76 to 84
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

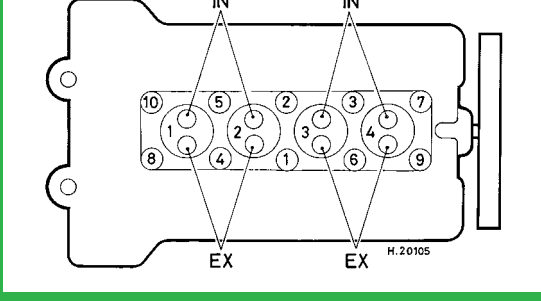
Capacities

155, 1749 T-Spark CAT

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	—
Fuel tank	litres	63

Notes and Illustrations



1749 cm³