

Engine & Cooling

Fuel

Ignition

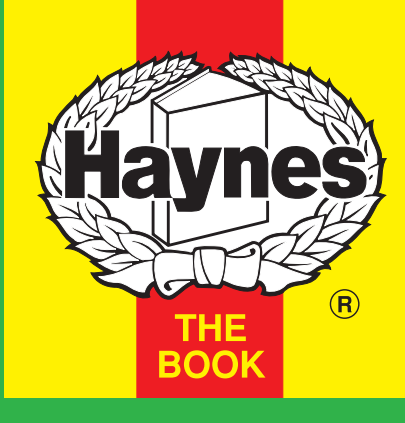
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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MENUHELP

Engine and cooling system

100, 2.3 CAT

1991 to 1994

Type	AAR (98kW) SOHC	
Capacity (cm ³) / number of cylinders	2309 / 5	
Compression ratio / pressure	bar	10.0 / ≥8.0
Oil pressure	bar	[2.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order	1-2-4-5-3	
No 1 cylinder position	TBE	
Thermostat opening temperature	°C	87
Radiator cap pressure	bar	1.2 to 1.5

Fuel system

100, 2.3 CAT

1991 to 1994

Idle speed - manual [auto]	rpm	650 to 790 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	Bosch	
Type / ref	KE III-Jetronic	
Main jet / needle	—	
Injection pressure	bar	4.3 to 4.6
Pump pressure	bar	6.1 to 6.5
Octane rating	RON	95[U]

Ignition system

100, 2.3 CAT

1991 to 1994

Type	FEI	
Ignition coil	Bosch	
Primary resistance	ohms	0.50 to 1.50
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor	Bosch	
Points gap (air gap)	mm	—
Dwell angle	° (%)	N/A
Condenser capacity	µF	—
Rotation	Clockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	15±1 BTDC @ 650 to 790 N/A
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	13 to 17 BTDC @ 650 to 790
	° 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	NGK	
Type	BPR5EKU	
Electrode gap	mm	0.70 to 0.90

Electrical system

100, 2.3 CAT

1991 to 1994

Battery	V / CC / RC	12 / 63Ah
Alternator voltage / full load current / engine rpm	12.5 to 14.5 / 90 / 2000	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

100, 2.3 CAT

1991 to 1994

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.5. Disc: 2.0

Tyres		
Saloon	Size	195/65x15: 205/60x15 ¹
Estate / Van	Size	195/65x15: 205/60x15 ¹
Pressure - front / rear - Saloon	bar	2.3 / 2.3 ²
- Estate / Van	bar	2.3 / 2.3 ²

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+15'+5'-10']
Camber	-40'+35'-25' ³	
Castor	+1°10'±40'. 4x4: +55'±40' N/A	
King pin inclination	—	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+20'±10']. 4x4: [+10'±10']
Camber	-50'±30'. 4x4: -15'±15'	

Torque wrench settings

100, 2.3 CAT

1991 to 1994

Cylinder head - stage 1	Nm	40 N
- stage 2	Nm	60
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	30 + 90°
Main bearings	Nm	65
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	30 + 90°
Front hubs	Nm	200 + 90°
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	30

Capacities

100, 2.3 CAT

1991 to 1994

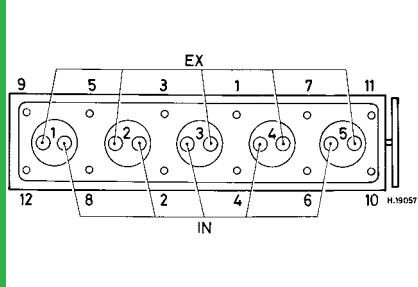
Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	2.4. 4x4: 2.85
Automatic transmission - refill	litres	3.0
Final drive	litres	AT: 0.75. 4x4: 1.7
Cooling system	litres	8.0
Fuel tank	litres	80

Notes and Illustrations

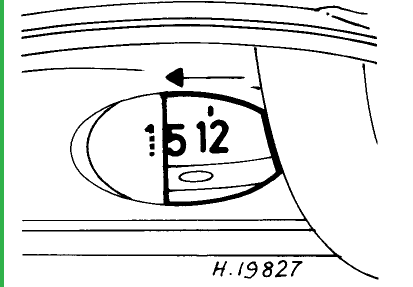
¹Also 215/60x15
²215/60x15: 2.1 / 2.1
³4x4 & Sports: -50'+25'-35'

1: Idle speed

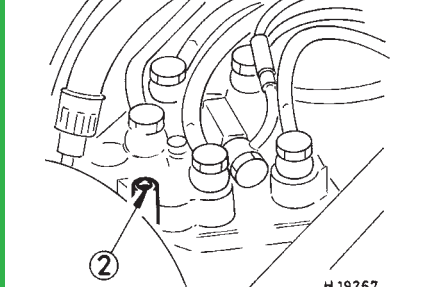
2: CO / Mixture



2309 cm³



2309 cm³



KEIII-Jetronic