

Engine & Cooling

Fuel

Ignition

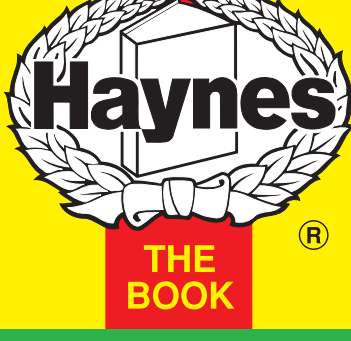
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system

100 4x4, 2.0 16V CAT

1992 to 1994

Type		ACE (103 kW) DOHC 16V
Capacity (cm ³) / number of cylinders		1984 / 4
Compression ratio / pressure	bar	10.8 / ≥7.5
Oil pressure	bar	[2.0]
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		TBE
Thermostat opening temperature	°C	87
Radiator cap pressure	bar	1.2 to 1.5

Fuel system

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1992 to 1994

Idle speed - manual [auto]	rpm	800 to 1000 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-Motronic
Main jet / needle		—
Injection pressure	bar	3.7 to 4.8
Pump pressure	bar	6.1 to 6.6
Octane rating	RON	95[U]

Ignition system

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1992 to 1994

Type		Motronic
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	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	6±1 BTDC @ 800 to 1000
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	4 to 8 BTDC @ 800 to 1000
	° 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		BKUR7ET
Electrode gap	mm	0.70 to 0.90

Electrical system

100 4x4, 2.0 16V CAT

1992 to 1994

Battery	V / CC / RC	12 / 50Ah
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

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1992 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	1.9 / 1.9 ²
- Estate / Van	bar	—

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

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+10'±10']
Camber		-15'±15'

Torque wrench settings

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1992 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 4x4, 2.0 16V CAT

1992 to 1994

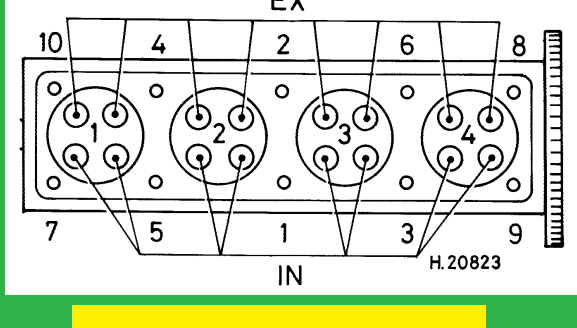
Engine oil & filter	litres	3.0
Gearbox - 4-speed [5-speed]	litres	2.85
Automatic transmission - refill	litres	—
Final drive	litres	1.7
Cooling system	litres	6.5
Fuel tank	litres	80

Notes and Illustrations

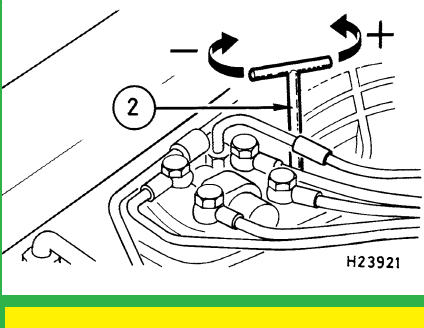
¹Also 215/60x15

²215/60x15: 1.8 / 1.8

1: Idle speed 2: CO / Mixture



1984 cm³, 16V



KE-Motronic, ACE