Automotive Technical DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU HELP

Engine and cooling system

100, 1.8i CAT 1985 to 1991

Type		PH (66kW) SOHC
Capacity (cm³) / number of cylinders		1781 / 4
Compression ratio / pressure	bar	9.0 / ≥7.0
Oil pressure	bar	[2.0]
Oil temperature	ºC	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	ºC	85
Radiator cap pressure	bar	1.2 to 1.5

Fuel system

100, 1.8i CAT 1985 to 1991

Idle speed - manual [auto]	rpm	800 to 1000
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-Jetronic
Main jet / needle		_
Injection pressure	bar	3.5 to 4.1
Pump pressure	bar	5.2 to 5.6
Octane rating	RON	91[U]

Ignition system

100, 1.8i CAT 1985 to 1991

Type		TSZ
Ignition coil		Bosch
Primary resistance	ohms	0.52 to 0.76
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Bosch
Points gap (air gap)	mm	_
Dwell angle	º (%)	N/A
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	º Crankshaft @ rpm	6±1 BTDC @ 800 to 1000
V = Vacuum NV = No Vacuum		NV
Total ignition advance	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	0 @ 1050 to 1300
	º Crankshaft @ rpm	15 to 19 @ 2600
	º Crankshaft @ rpm	22 to 26 @ 4500
Vacuum range check	mbar	120 to 260
Maximum vacuum advance	º Crankshaft	10 to 14
Spark plugs		NGK
Type		BUR6ET
Electrode gap	mm	0.70 to 0.90

Electrical system

100, 1.8i CAT 1985 to 1991

Battery	V / CC / RC	12 / 45Ah
Alternator voltage / full load current / engine rpm		12.5 to 14.5 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

100, 1.8i CAT 1985 to 1991

Brakes -		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	2.5
Tyres		
Saloon	Size	185/70x14
Estate / Van	Size	185/70x14
Pressure - front / rear - Saloon	bar	1.9 / 1.9
- Estate / Van	bar	1.9 / 1.9
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	[0+5'-10'] 4x4: [+5'+5'-10']
Camber		-30'±30'
Castor		+50'±40'
King pin inclination		_
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	[+10'±5'] 4x4: [+10'±10']
Camber		-40'±30'. 4x4: -15'±15'

Torque wrench settings

100, 1.8i CAT 1985 to 1991

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	60 + 90° N
Front hubs	Nm	280[1]
Rear hubs	Nm	WSM[2]
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	30

Capacities

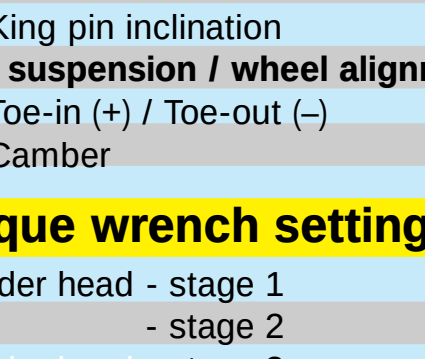
100, 1.8i CAT 1985 to 1991

Engine oil & filter	litres	3.0
Gearbox - 4-speed [5-speed]	litres	2.0. 4x4: 2.85
Automatic transmission - refill	litres	3.0
Final drive	litres	AT: 0.75[3]
Cooling system	litres	7.0
Fuel tank	litres	80

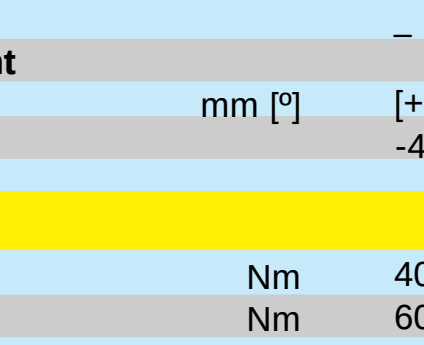
Notes and Illustrations

[1]**4x4: 360**
[2]**4x4: 360**
[3]**4x4 rear: 1.6**

1: Idle speed 2: CO / Mixture



1781 cm³, 8V



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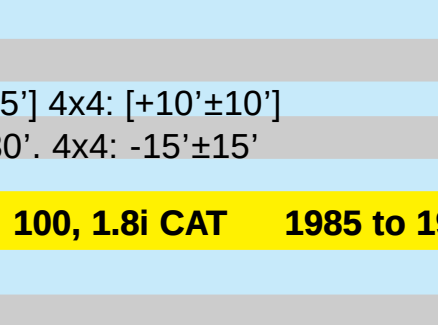

KE-Jetronic, PH